# ComRails Volume TIMS3: AN TIMS Detailed Locomotive Information

TIMS3

Front Page: 3.5.1986 Aldgate Centenary car on rear of train (Chris Drymalik - p0105324a)

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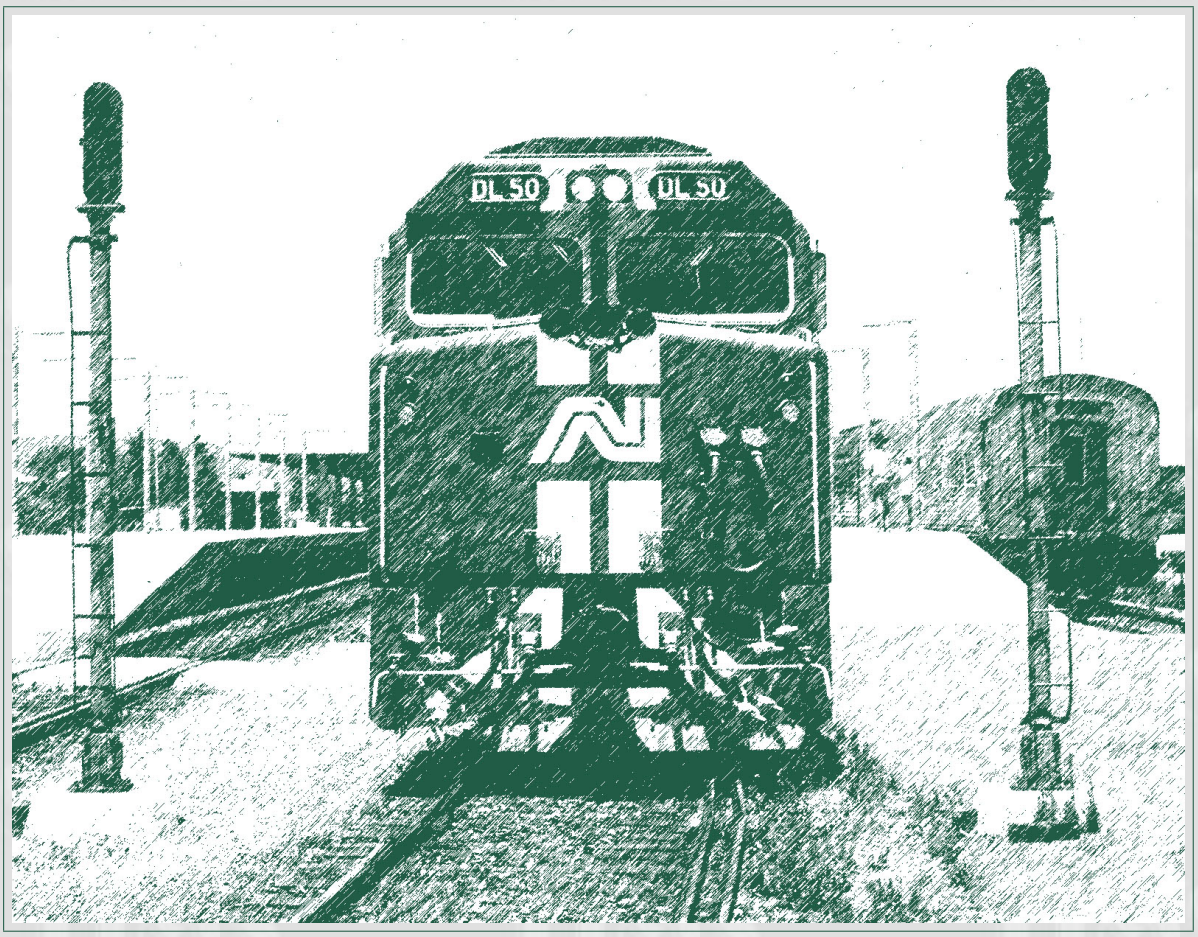
The ComRails web site (www.comrails.com) can be downloaded as a series of printable documents in PDF format. This volume is an example of one of the volumes in the Comrails series.

The volumes are:

**Volume 1** Overview and Articles Information
**Volume 2** Carriage Information
**Volume 3** Freight Rollingstock Information
**Volume 4** Locomotive and Railcar Information
**Volume 5** War Time History of the Commonwealth Railways
**Volume 6** Route Information
**Volume 7** Master Rollingstock List
**TIMS1** Australian National Traffic Information Management System (TIMS) - Rollingstock Lists - this is a listing of all the rollingstock whose detailed records can be found in TIMS3 to TIMS6
**TIMS2** Australian National Traffic Information Management System (TIMS) - Route Index - basically a listing of all the track speed restrictions and temporary works
**TIMS3** Australian National Traffic Information Management System (TIMS) - Locomotive Rollingstock Records - this is the full detailed entry of all the locomotive rollingstock.
**TIMS4** Australian National Traffic Information Management System (TIMS) - Railcar Rollingstock Records - this is the full detailed entry of all the railcar rollingstock.
**TIMS5** Australian National Traffic Information Management System (TIMS) - Passenger Rollingstock Records - this is the full detailed entry of all the passenger rollingstock.
**TIMS6** Australian National Traffic Information Management System (TIMS) - Wagon Rollingstock Records - this is the full detailed entry of all the freight wagon rollingstock.




# Commonwealth, Australian National and South Australian Railways Rollingstock
# Volume TIMS3

AN TIMS Detailed Locomotive Information

This document is a printed version of the Comrails website. The site is where you will find various bits of information about the Commonwealth Railways, Australian National Railways, Great Southern Railways and the South Australian Railways.

The subject material is the South Australian, Commonwealth and Australian National Railways.

Chris Drymalik

The Comrails web site can be found at
http://comrails.com
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CHAPTER 1

# AUSTRALIAN NATIONAL TRAFFIC INFORMATION MANAGEMENT SYSTEM (TIMS)

The data presented in the following pages was extracted from a report from the Australian National Traffic Information Management System (TIMS).

In early 2006 I was given a rather old copy of an extract of the Australian National TIMS database. The extract had a series of programs that allowed the user to review and update the information. Unfortunately these programs no longer worked with a modern computer system, so I needed to consider some possible solutions that allowed me to easily access the data:

1. I could fix the programs
2. read the raw data directly when I wanted to access any details or
3. convert the data into a more useable format.

I chose the last as being the best long term option to preserve the data so that it could be read more easily in the future. So I wrote a series of programs that converted the original data to series of web pages and indexes.

All the data presented in these pages is as it appears in the original extract except that it has been reformatting so that it actually made sense to a reader not familiar with the internal item codes. Dates have been converted to *dd.mm.yyyy* format, and special item codes have been expanded into full alphanumeric text. Not all fields made sense to me, but I have done my best to extract all the useful stuff. The indexes were generated automatically from an extensive series of programs that I wrote that parsed the original data extracting any usefull information.

Items of rollingstock have been grouped into pages via type code (Loco, Passenger, Railcar and Wagon) followed by the first three characters of the classification.

The data seems to have been current up to 30$^{th}$ May 1997.

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CHAPTER 2

# TIMS Group Information - Locomotives


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## 2.1 Locomotive classification starting with 'Number Only'

**28**

Details: locomotive '28 T' in AN 'Mainland Division'.

**Owner:** SILVERTON
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.02.1970
**Operating System:** SRA OF NSW
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LSNO

**29**

Details: locomotive '29 F' in AN 'Mainland Division'.

**Owner:** SILVERTON
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.02.1970
**Operating System:** SRA OF NSW
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LSNO

**350**

Details: locomotive '350 P' in AN 'Mainland Division'.

**Owner:** ARHS
**Operator:** D
**Length Over Headstocks:** 10.7m
**Tare Weight:** 50.3tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Restricted to Broad Gauge only
**Diagram Book Page No.:** CB L-1
**Date Built:** 21.06.1949
**Operating System:** ARHS
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 260kw
**Remarks:** A.R.H.S. LOCO
**BSG Code:** LBSO

**351**

Details: locomotive '351 B' in AN 'Mainland Division'.

**Owner:** A.R.H.S.
**Length Over Headstocks:** 10.7m
**Tare Weight:** 50.3tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Restricted to Broad Gauge only
**Diagram Book Page No.:** CB L-1
**Date Built:** 01.06.1949
**Operating System:** ARHS
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 260kw
**Remarks:** A.R.H.S. LOCO. ON LOAN TO PDSM
**BSG Code:** LBSO

**500**

**17.03.1987** Reclassified from locomotive '500 M' to ' locomotive '534 D'.

**501**

Details: locomotive '501 V' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $116720
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 08.07.1964
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 12.02.94
**BSG Code:** LBAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 08.07.1993 | | |
| Last Lift: | 23.02.1984 | | |
| SW Service Mileage: | 335445 KM | SW Service Date: | 21.04.1993 |
| B Service Mileage: | 334595 KM | B Service Date: | 16.03.1993 |
| C Service Mileage: | 319831 KM | C Service Date: | 07.11.1990 |
| D Service Mileage: | 307814 KM | D Service Date: | 28.04.1989 |
| US Service Mileage: | 337328 KM | A Service Date: | 08.07.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**06.07.1989** Service defect: 'UN - AUXILLARY MACHINES - 'B'END BLOWER BELT REPLACED.'.
**01.08.1989** Service defect: 'UN - BOGIE - BOGIES CHECKED OK A/C DERAILMENT.'.
**09.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LHS ISOLATING COCK REPLACED.RHS FEED VALVE CHANGED A/C TRAINPIPE OVERCHARGING.'.

**21.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - RIGHT SIDE FEED VALVE CHANGED A/C OVERCHARGING'.
**06.09.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSH & DRIVE COUPLING REPLACED.'.
**04.04.1990** Service defect: 'UN - GENERAL - HAND RAIL'A'END RHS WELDED A/C BROKEN.'.
**06.05.1990** Service defect: 'UN - FIRE EXTINGUISHER GLASS TO REPLACE'.
**05.06.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH DRIVE SHAFT REPLACED A/C BROKEN.'.
**14.06.1990** Service defect: 'B - CAB T.M.BLOWER BELT TO REPLACE/.'.
**22.06.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**17.01.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER BELTS CHANGED.'.
**23.12.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - FAN DRIVE SHAFT REPLACED.'.
**10.03.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MODS.ON LOAD REG.SYSTEM OK.TESTED OK.'.
**12.03.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CONTROL PANEL REPAIRED.'.
**27.03.1992** Service defect: 'UN - OTHER BODY REPAIRS - DOOR REPLACED.-EX 520.LOCO SENT FOR RUN.TESTED OK BY C.GOLDSMITH.'.
**14.04.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BATTERY CHARGE GLASS REPLACED.'.
**14.04.1992** Service defect: 'UN - EXHAUST - 2 EXHAUST EXPANSIONS REPLACED.EXHAUST STACK CRACK REPLACED. 1 EXHAUST BANJO & GASKETS REPLACED,OTHERS TIGHTENED.'.
**14.04.1992** Service defect: 'UN - FUEL SYSTEM PUMP - 3 FUEL PUMPS REPLACED.'.
**22.12.1992** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK REPAIRED.'.
**22.12.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH REMOVED.REPAIRED AND REPLACED OK.'.
**22.12.1992** Service defect: 'UN - NO FAULT FOUND - ENGINE MOUNTS CHECKED OK.'.
**12.05.1993** Service defect: 'UN - GENERAL - CAB DOOR HANDLE REPAIRED.'.
**12.05.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - SHORT SHAFT & COUPLING REPLACED,COMP FAN DRIVE BOX. FAN DRIVE SHAFT REPLACED.'.
**08.07.1993** Service defect: 'UN - COMPRESSOR SHAFT U/S. LOCO STORED.'.

### 502

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**16.08.1989** Service defect: 'SW - GENERAL - NUMERAL GLASS REPLACED.'.

### 503

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### 504

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**03.08.1989** Service defect: 'UN - EXHAUST - EXHAUST STACK WELDED A/C CRACKED.'.
**26.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND TRAP & PIPE REPLACED L1.26/9.'.
**19.10.1989** Service defect: 'UN - AUXILLARY MACHINES - 'B'END TM BLOWER BELT REPLACED.'.
**01.11.1989** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR LINKAGE TO FUEL RACKS REPLACED A/C BROKEN.CAM SWITCHES ADJUSTED.'.
**21.02.1990** Service defect: 'B - AUX GEN BELT TO CHANGE.21/2*'.
**27.05.1990** Service defect: 'UN - AUXILLARY MACHINES - REAR BLOWER BOLTS REPLACED.'.
**11.07.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH FITTED.'.
**11.07.1990** Service defect: 'UN - WATER PUMP REQUIRES NEW SEAL'.
**13.07.1990** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP SEAL REPLACED.'.

### 505

Details: locomotive '505 L' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $116720
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 26.02.1965
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 12.02.94
**BSG Code:** LBAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 19.04.1993 | | |
| Last Lift: | 12.08.1983 | | |
| SW Service Mileage: | 307390 KM | SW Service Date: | 19.04.1993 |
| B Service Mileage: | 299342 KM | B Service Date: | 27.04.1990 |
| C Service Mileage: | 301495 KM | C Service Date: | 18.10.1990 |
| D Service Mileage: | 292599 KM | D Service Date: | 25.01.1989 |
| US Service Mileage: | 307389 KM | A Service Date: | 27.04.1990 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443

LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**14.07.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - LH RADIATOR REPLACED.'.

**14.07.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - ENGINE TO G/BOX SHAFT & LAY RUBS REPLACED.'.

**18.12.1989** Service defect: 'C - EXHAUST - BOTTOM SHORT EXHAUST CONNECTOR REPLACED.'.

**27.04.1990** Service defect: 'UN - AUXILLARY MACHINES - REAR TM BLOWER BELT REPLACED.'.

**19.04.1993** Service defect: 'SW - LOCO STORED, A/C LOAD REG MODS REQUIRED.'.

**506**

Details: locomotive '506 U' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $116720
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 19.03.1965
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 29.08.92 A/C COLLISION DAMAGE
**BSG Code:** LBAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 02.05.1991 | | |
| Last Lift: | 20.10.1982 | | |
| SW Service Mileage: | 350154 KM | SW Service Date: | 06.08.1990 |
| B Service Mileage: | 356054 KM | B Service Date: | 20.02.1991 |
| C Service Mileage: | 354030 KM | C Service Date: | 17.12.1990 |
| D Service Mileage: | 337692 KM | D Service Date: | 05.06.1989 |
| WT Service Mileage: | 356993 KM | WT Service Date: | 20.03.1991 |
| US Service Mileage: | 358154 KM | A Service Date: | 02.05.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**01.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BOTH FEED VALVES CHANGED A/C OVERCHARGING TRAIN PIPE.'.

**21.08.1989** Service defect: 'SW - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.

**21.08.1989** Service defect: 'SW - MECH. EQUIPMENT RADIATOR FAN GEARBOX - LAY RUBS ON FAN DRIVE COUPLING REPLACED.'.

**28.02.1990** Service defect: 'SW - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.CHECKED FOR DILUTION NOFAULTS FOUND.'.

**06.07.1990** Service defect: 'UN - GENERAL - CAB DOOR & WINDOW SEALS REPAIRED.'.

**20.02.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END MAIN RESERVOIR HOSE REPLACED.'.

**20.02.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE PRESSURE FEED VALVE REPLACED.'.

**20.02.1991** Service defect: 'B - OTHER BODY REPAIRS - R.H.S. SEAT REPAIRED.'.

**11.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LHS FEED VALVE REPLACED.'.

**19.03.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SKIDDED WHEELS B' END BOGIE,TO W.T.M.'.

**19.04.1991** Service defect: 'TS - MECHANICAL AIR BRAKE REPAIRS - ACCIDENT - BRAKE HANGERS INSTALLED,BRAKES ADJUSTED.'.

**19.04.1991** Service defect: 'TS - OTHER BODY REPAIRS - COWCATCHER REPLACED 'B'END,A/C DERAILMENT.'.

**02.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - INDEPENDENT D.B.V.HANDLE CHANGED,A/C NO SPRING.'.

**02.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - RIGHT HAND FEED VALVE REPLACED.'A' END 70LB FEED VALVE CHANGED,OK.'.

**02.05.1991** Service defect: 'UN - ISOLATING COCK 'B' SIDE TO CHANGE A/C NIL STOCK.'.

**02.05.1991** Service defect: 'UN - 2/5.'.

**507**

Details: locomotive '507 G' in AN 'Mainland Division'.

**Owner:** ARHS
**Operator:** D
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $116720
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 06.04.1965
**Operating System:** ARHS
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 14.03.91 - SOLD TO STEAMRANGER
**BSG Code:** LBSO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 13.12.1988 | | |
| Last Lift: | 21.06.1976 | | |
| B Service Mileage: | 253233 KM | B Service Date: | 02.06.1987 |
| C Service Mileage: | 256796 KM | C Service Date: | 10.11.1987 |
| D Service Mileage: | 252877 KM | D Service Date: | 06.02.1987 |
| US Service Mileage: | 260308 KM | A Service Date: | 13.12.1988 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**508**

Details: locomotive '508 P' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $116720
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 03.05.1965
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**BSG Code:** LBAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 06.11.1996 | | |
| Last Lift: | 11.10.1994 | | |
| SW Service Mileage: | 364275 KM | SW Service Date: | 30.06.1995 |
| B Service Mileage: | 370337 KM | B Service Date: | 10.01.1996 |
| C Service Mileage: | 366914 KM | C Service Date: | 26.09.1995 |
| D Service Mileage: | 371934 KM | D Service Date: | 06.11.1996 |
| F Service Mileage: | 355971 KM | A Service Date: | 11.10.1994 |
| WT Service Mileage: | 547082 KM | WT Service Date: | 19.05.1993 |
| US Service Mileage: | 944342 KM | A Service Date: | 08.08.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**26.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHANGED.'.
**29.05.1990** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH REPAIRED.'.
**31.08.1990** Service defect: 'UN - RADIO REPAIR - RADIO INSTALLED.'.
**22.10.1990** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR MISFIRING,ENGINE FIRING CHECKED OK.'.
**05.11.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER,CAM SWITCHES ADJUSTED.'.
**21.11.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**28.11.1990** Service defect: 'UN - GENERAL - 'A'END RHS STEP REPAIRED A/C COLLISION DAMAGE.'.
**07.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE ADJUSTED A/C CONTROL AIR PRESSURE TOO HIGH105-120'.
**07.02.1991** Service defect: 'UN - DOOR HANDLE TO REPAIR,CANNOT BE LOCKED.'.
**12.03.1991** Service defect: 'UN - FUEL SYSTEM - FUEL ELEMENT REPLACED, STRAINER CLEANED.'.
**15.03.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CLUTCH & SHAFT REPLACED,GEARBOX COUPLING REPLACED.'.
**15.03.1991** Service defect: 'UN - MOTOR 'END'LAY RUBS IN POOR CONDITION.(LONG SHAFT)'.
**22.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - THROTTLE HANDLE REPLACED,A/C BROKEN.'.
**03.05.1991** Service defect: 'UN - FUEL SYSTEM PUMP - HIGH PRESSURE FUEL PUMPS RE-TIMED BETWEEN 072'-080',A/C MOTOR MISFIRING.'.
**07.05.1991** Service defect: 'UN - FUEL SYSTEM - FUEL FILTERS CLEANED,A/C FUEL STARVATION.'.
**16.05.1991** Service defect: 'UN - FUEL SYSTEM PUMP - NO'S 1,3 & 4 FUEL PUMPS REPLACED, TIMING CHECKED OK.'.
**16.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L4 SANDER REPAIRED.'.
**22.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHANGED.'.
**22.07.1991** Service defect: 'UN - WATER PIPE ABOVE TURBO TO REPAIR,WHINING NOISE'.
**22.07.1991** Service defect: 'UN - FROM W/PUMP GEARBOX.22/7.'.
**14.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - A & B ISOLATING VALVES CHANGED,BYE - PASSING FEED VALVES RESET.DEAD ENGINE DEVICE & GASKET CHANGED 45 & 70PSI OK,A/C'.
**13.12.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHARGING CIRCUIT REPAIRED & CHECKED OK.'.
**13.12.1991** Service defect: 'UN - ENGINE WATER LEAK - SIGHT GLASS WATER LEAK REPAIRED.'.
**13.12.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE EXHAUST REPAIRED.DISTRIBUTING VALVE CHANGED,AGAIN'.
**14.01.1992** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - SHORT COMP. SHAFT AND LONG COMP. SHAFT REPLACED.'.
**08.05.1992** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK AT BLEED COCK STOPPED (FEED SCREW TIGHTENED).'.
**08.05.1992** Service defect: 'UN - GENERAL - MODS COMPLETED.'.
**01.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FILD DIVERSION REPAIRED.'.
**01.07.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED.'.
**14.07.1992** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED -113 VOLTS TO 108 VOLTS.'.
**14.07.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - VARISTOR REPLACED A/C FAILED GOING INTO POWER.'.
**27.07.1992** Service defect: 'UN - FIELD DIVERTS TO REPAIR.'.
**21.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - SHORT SHAFT IN FAN ROOM REPAIRED. GAURDS ALSO REPAIRED.'.
**16.11.1992** Service defect: 'UN - ENGINE - CAM SWITCHES ADJUSTED. GOV LINKAGE REMOVED - 523 LINKAGE ASSEMBLY USED.'.
**27.01.1993** Service defect: 'UN - COOLING SYSTEM - WATER PUMP REPLACED A/C LEAKING.'.
**27.01.1993** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMPS RE-TIMED.'.
**27.01.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED A/C FUEL DILUTION. FILTERS ALSO DRAINED.'.
**27.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER BELTS REPLACED.'.
**15.02.1993** Service defect: 'UN - ENGINE AIR FILTERS -

ENGINE AIR FILTER REPLACED.’.

**15.02.1993** Service defect: ‘UN - ENGINE GOVERNOR - GOVERNOR LINKAGE CHANGED, GOVERNOR CAMS ADJUSTED.’.

**15.02.1993** Service defect: ‘UN - FUEL SYSTEM - FUEL FILTERS CLEANED, FUEL FILTER SEAL REPLACED. NO 2 HP FUEL LEAK REPAIRED.’.

**15.02.1993** Service defect: ‘UN - FUEL SYSTEM PUMP - FUEL PUMPS RETIMED, NO 3 FUEL PUMP STICKING, REPAIRED.’.

**22.02.1993** Service defect: ‘UN - ENGINE GOVERNOR ELECTRICAL - CAM SWITCHES ADJUSTED A/C CAMS TWISTED ON SHAFT’.

**22.02.1993** Service defect: ‘UN - ENGINE GOVERNOR MECHANICAL - THROTTLE VALVE REPLACED’.

**07.05.1993** Service defect: ‘D - BROKEN PIPE - BROKEN PIPE REPAIRED. REPLACED WITH HOSE..’.

**07.05.1993** Service defect: ‘D - MECHANICAL EQUIPMENT - SPEED PISTON SEAL REPLACED.’.

**07.05.1993** Service defect: ‘D - MECHANICAL EQUIPMENT BRAKE VALVE - FEED VALVES AND ISOLATING COCK REPLACED A/C OVERCHARGING BRAKE PIPE.’.

**07.05.1993** Service defect: ‘D - MECHANICAL EQUIPMENT COUPLER - COMPRESSOR DRIVE SHAFT SHORT SHAFTCOUPLING REPLACED A/C BUSHES WORN.’.

**07.05.1993** Service defect: ‘D - FRONT LHS BOGIE SIDE CLEARANCE NIL. COMP.DRIVE’.

**07.05.1993** Service defect: ‘D - SHAFT BUSHES TO REPLACE. AUX. GEN. COMMUTATOR TO’.

**07.05.1993** Service defect: ‘D - STONE.’.

**04.06.1993** Service defect: ‘SW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHTS TESTED OK.’.

**04.06.1993** Service defect: ‘SW - MECHANICAL MAINTENANCE - AIR BRAKE - FULL BRAKE TEST COMPLETED OK.’.

**04.06.1993** Service defect: ‘SW - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS TESTED OK.’.

**07.07.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - ENGINE TO FAN GEARBOX SHAFT REPLACED A/C U/S.’.

**09.07.1993** Service defect: ‘UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER INSTALLATION COMPLETED,A/C SEIZED.’.

**09.07.1993** Service defect: ‘UN - LUBRICATING SYSTEM - OIL CHANGE COMPLETED,A/C LAB REPORT.’.

**06.08.1993** Service defect: ‘B - COMMUTATOR TO MONITOR.6/8.’.

**12.11.1993** Service defect: ‘C - FUEL SYSTEM - FUEL DILUTION CHECKED OUT OK.’.

**12.11.1993** Service defect: ‘C - RADIATOR/PRESSURISING FAN - FAN CLUTCH SHOES ADJUSTED.’.

**12.11.1993** Service defect: ‘C - NO 3 FUEL PUMP REQ’S NEW SEAL.12/10.’.

**19.01.1994** Service defect: ‘UN - NO FAULT FOUND - LOCO REPORTED AS HAVING FAULTY FIELDS SHUNTS. LOCO TESTED AT MPC AND THYRISTORS FOUND BLOWN, REPAIRED AND TESTED OK.’.

**20.01.1994** Service defect: ‘TS - GENERAL LOSS OF POWER - DROPPING LOAD. GOVERNOR LINKAGE REPAIRED, LOCO TESTED OK.’.

**24.01.1994** Service defect: ‘TS - FUEL SYSTEM - PUMP TESTED CYLINDERS, 2 AND 3 NOT FIRING PROPERLY. ONE WAY FUEL RETURN VALVE CLEANED, ALL CYLINDERS FIRED OK.’.

**04.02.1994** Service defect: ‘B - BOGIE - L4 DUST COVER (AXLE) REPAIRED.’.

**04.02.1994** Service defect: ‘B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN SHAFT + GEAR BOX REPAIRS COMPLETED.’.

**04.02.1994** Service defect: ‘B - RADIATOR/PRESSURISING FAN - RAD FAN DRIVE REPAIRED.’.

**10.02.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - FUEL PUMP CHANGED, A/C FOUND FUEL PRESSURE LOW.’.

**28.02.1994** Service defect: ‘TS - MECHANICAL EQUIPMENT - LONG SHAFT BETWEEN ENGINE AND GEARBOX REPLACED. COUPLINGS EACH END OF THIS SHAFT REPLACED. FAN DRIVE SHAFT REPLACED,’.

**10.03.1994** Service defect: ‘UN - FUEL SYSTEM - FUEL SYSTEM CLEANED, FUEL TANK BOLTS ‘A‘END CHANGED, FUEL PRESSURE INCREASED 2 PSI AT REGULATING VALVE. FUEL TANK’.

**21.03.1994** Service defect: ‘TS - GENERAL UNABLE TO LIFT LOAD - ENGINE BOGGING DOWN. FUEL PRESSURE RELIEF VALVE CHANGED ANDCHECKED OK.’.

**21.03.1994** Service defect: ‘TS - LOCO HAD WHEEL SLIP WHILE SHUNTING AROUND DEPOT’.

**21.03.1994** Service defect: ‘TS - 21/3/94.’.

**20.04.1994** Service defect: ‘C - FUEL SYSTEM PUMP - FUEL PUMP SEAL REPLACED.’.

**18.05.1994** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - NO 4 W/SET ‘COLLAR’ REPOSITIONED AND WELDED.’.

**18.05.1994** Service defect: ‘UN - FUEL SYSTEM - FUEL LEAKS REPAIRED AND CHECKED OK.’.

**18.05.1994** Service defect: ‘UN - GENERAL - ALL SEAT CUSHIONS REPLACED.’.

### 509

Details: locomotive ‘509 B’ in AN ‘Mainland Division’.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $121930
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 17.12.1965
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 12.02.94
**BSG Code:** LBAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 15.10.1991 | | |
| Last Lift: | 20.12.1983 | | |
| SW Service Mileage: | 373639 KM | SW Service Date: | 29.07.1991 |
| B Service Mileage: | 364278 KM | B Service Date: | 03.08.1990 |
| C Service Mileage: | 359604 KM | C Service Date: | 09.03.1990 |
| D Service Mileage: | 368351 KM | D Service Date: | 15.01.1991 |
| WT Service Mileage: | 348458 KM | WT Service Date: | 08.02.1989 |
| US Service Mileage: | 375670 KM | A Service Date: | 15.10.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**24.08.1989** Service defect: 'UN - EXHAUST - EXHAUST STACK CHANGED A/C CRACKED.'.
**28.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRAVELS ADJUSTED.'.
**27.07.1990** Service defect: 'UN - FUEL SYSTEM - RHS 'B' END FUEL TANK SUPPORT BRACKET WELDED.A/C BROKEN.'.
**15.01.1991** Service defect: 'D - BODY REPAIRS - ACCIDENT - DERAILMENT REPAIRS - L1,L2,L3,L4 BRAKE STRAPS AND SLACK ADJ REPLACED. NO1 GEAR CASE WELDED A/C HOLED.'.
**15.01.1991** Service defect: 'UN - DERAILMENT REPAIRS/SLUDGE TANK FULL'.
**08.03.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REVERSER NOT THROWING OCCASIONALLY - MAGNET VALVE PIPE ON REVERSER REFLARED.'.
**08.03.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGE A/C LAB REPORT.'.
**08.03.1991** Service defect: 'UN - OTHER BODY REPAIRS - SUN VISOR AND ARM REST REPAIRED.'.
**15.03.1991** Service defect: 'UN - REVERSER - REVERSER PISTON PACKING REPLACED,CHECKED OK.A/C REVERSER NOTTHROWING.'.
**09.05.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT RESISTOR ADJUSTED.'.
**09.05.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHECKED OK.'.
**09.05.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO2 INJECTOR CHANGED,A/C DAMAGED THREAD CAUSING FUEL LEAK.'.
**09.05.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED,A/C FUEL DILUTION.'.
**24.06.1991** Service defect: 'UN - BOGIE - R1,R2,L1,L3 SPREADER BARS & PINS REPLACED,A/C DERAILMENT. RHS 'B'BOGIE SAFETY BRACKET WELDED.'.
**24.06.1991** Service defect: 'UN - CONTACTOR EP VALVES - 72V MAGNET VALVE (COMPRESSOR) REPLACED WITH 110V MAGNET VALVE.'.
**24.06.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - BCC CONTACTOR REPAIRED.'.
**24.06.1991** Service defect: 'UN - GENERAL - FRONT END PANEL & STEPS REPAIRED.'.
**11.07.1991** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - GEARBOX TO COMPRESSOR & VERTICAL FANSHAFT REPLACED.'.
**24.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - REPAIRS AS BOOKED,FAN &COMPRESSOR SHAFT RUBBERS U/S.'.
**15.10.1991** Service defect: 'UN - STORED.'.

### 510

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### 511

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### 512

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**14.07.1989** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR LINKAGE REPLACED A/C BROKEN.'.
**09.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE OVERCHARGING,LHS FEED VALVE & RHS ISOLATING COCK CHANGED.'.
**30.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - 'A'END WHEELS BOOKED FOR FLATS.SLIGHT FLATS,OK TO RUN.'.
**11.07.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO3 INJECTOR CHANGED A/C LEAKING.'.
**11.07.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**10.08.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR INTERMITTENT POWER LOSS.IR LUBRICATED.'.
**15.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE REPLACED.'.
**27.08.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED A/C FLAT BATTERIES.'.
**12.04.1991** Service defect: 'UN - GENERAL ACCIDENT - COLLISION - LOCO STORED.'.

### 513

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### 514

Details: locomotive '514 K' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $121930
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 02.03.1966
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 12.02.94

**BSG Code:** LBAF

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|---|---|---|---|
| Return to Service Date: | 01.04.1992 | | |
| Last Lift: | 10.01.1975 | | |
| SW Service Mileage: | 317638 KM | SW Service Date: | 20.11.1991 |
| B Service Mileage: | 312917 KM | B Service Date: | 22.02.1991 |
| C Service Mileage: | 307832 KM | C Service Date: | 08.12.1989 |
| D Service Mileage: | 310874 KM | D Service Date: | 25.08.1990 |
| US Service Mileage: | 319916 KM | A Service Date: | 01.04.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**03.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - ALL SAND PIPES CLEARED.'.
**21.08.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**07.09.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSHES REPLACED.'.
**21.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - 'D'TYPE MAGNET VALVE CHANGED A/C COMPRESSOR NOT PUMPING AIR.'.
**15.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED.'.
**15.02.1990** Service defect: 'UN - RADIO REPAIR - RADIO CIRCUIT BREAKER REPLACED.'.
**22.02.1991** Service defect: 'B - GENERAL - R.H.S. SEAT REPLACED.A/C U/S.'.
**20.11.1991** Service defect: 'SW - GENERAL - RADIO MODS COMPLETED.'.
**20.11.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - T/PIPE REPAIRED,A/C OVERCHARGING.'.
**20.11.1991** Service defect: 'SW - AUTO DRAIN TO REPLACE.20/11.'.
**01.04.1992** Service defect: 'UN - THIS LOCO STORED.'.

**515**

Details: locomotive '515 T' in AN 'Mainland Division'.

**Owner:** PDSM
**Operator:** C
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $128400
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 29.12.1966
**Operating System:** PORT DOCK STATION
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 01.08.92;SOLD PDSM 12.07.92
**BSG Code:** LBSO

| | | | |
|---|---|---|---|
| Return to Service Date: | 01.04.1992 | | |
| Last Lift: | 09.09.1976 | | |
| SW Service Mileage: | 280669 KM | SW Service Date: | 20.05.1988 |
| B Service Mileage: | 294934 KM | B Service Date: | 02.07.1990 |
| C Service Mileage: | 296637 KM | C Service Date: | 19.11.1990 |
| D Service Mileage: | 293517 KM | D Service Date: | 12.02.1990 |
| US Service Mileage: | 304700 KM | A Service Date: | 01.04.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**30.07.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - TEMPORARY REPAIRS TO FAN CLUTCH.'.
**30.07.1989** Service defect: 'UN - BRONZE BUSH FAN CLUTCH TO REPLACE.'.
**21.09.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN DRIVE SHAFT REPLACED.'.
**02.11.1989** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN & TM BLOWER BELTS REPLACED.'.
**18.12.1989** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BELT REPLACED.'.
**12.02.1990** Service defect: 'D - MECHANICAL EQUIPMENT COMPRESSOR - LONG SHAFT ENGINE TO COMPRESSOR CHANGED.'.
**02.07.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO 1 CYLINDER HEAD BOLTS TIGHTENED.'.
**08.03.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BELT REPLACED.'.
**06.05.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BELT REPLACED,A/C U/S.'.
**01.04.1992** Service defect: 'UN - THIS LOCO STORED.'.

**516**

Details: locomotive '516 F' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $128400
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 08.02.1967
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 03.03.90;LEASED TO ICI
**BSG Code:** LBAF

| | | | |
|---|---|---|---|
| Return to Service Date: | 03.03.1997 | | |
| Last Lift: | 09.03.1977 | | |
| SW Service Mileage: | 98478 KM | SW Service Date: | 12.01.1989 |
| B Service Mileage: | 2761470 KM | B Service Date: | 22.10.1996 |
| C Service Mileage: | 1715107 KM | C Service Date: | 18.06.1996 |
| D Service Mileage: | 4446023 KM | D Service Date: | 03.03.1997 |
| US Service Mileage: | 1713931 KM | A Service Date: | 02.08.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443

LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**06.12.1989** Service defect: 'UN - AUXILLARY MACHINES - BOOKED FOR FLAT BATTERIES.ALL BRUSHES CHANGED AUX GEN A/C SHORT.'.

**07.03.1990** Service defect: 'C - AUXILLARY MACHINES - 'A'END TM BELT REPLACED.'.

**07.03.1990** Service defect: 'C - ENGINE CYLINDER HEADS - NO1 HEAD GASKET REPLACED.'.

**03.09.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BRUSHES REPLACED.AUX GEN BELT ADJUSTED.'.

**03.09.1990** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP SEAL REPLACED.'.

**03.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - RHS 45LB REDUCING VALVE REPLACED.LHS 70LB FEED VALVE REPLACED.'.

**15.05.1991** Service defect: 'UN - GENERAL - T/W COMPLETED.'.

**05.06.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BRUSHES CHANGED.CAM CLEANED,VOLTAGE ADJUSTED.'.

**05.06.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES REPLACED.'.

**05.07.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTS CHECKED OK.'.

**05.07.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - G22 TERMINAL STRIP TO EARTH REPAIRED.P=500K.'.

**05.07.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - T/M BRUSHES CHECKED OK.'.

**18.09.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX GENERATOR REPLACED.'.

**18.09.1991** Service defect: 'UN - BATTERY MAINTENANCE - ALL BATTERIES CHANGED.'.

**18.09.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED TO 110V.'.

**11.03.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LIGHTING CIRCUIT CHECKED OK.'.

**11.03.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 2 HEAD GASKET REPLACED.'.

**11.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR M/VALVE REPLACED.'.

**20.03.1993** Service defect: 'UN - CONTACTOR EP VALVES - MAGNET VALVE CHANGED.'.

**20.03.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SEMI CONDUCTORS CHANGED.'.

**20.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR BREATHER PULLED APART & RE-PACKED- DIAPHRAM REPLACED.'.

**01.07.1993** Service defect: 'D - ELECTRICAL MISC - FUSES/HOLDERS - HEADLIGHT SWITCH REPLACED.'.

**01.07.1993** Service defect: 'D - GENERAL - RIGHT SIDE DRIVERS SEAT CHANGED.'.

**01.07.1993** Service defect: 'D - MECHANICAL EQUIPMENT - BELLOWS BETWEEN TURBO INLET & AIR CLEANER DUCT CHANGED,A/C SPLIT.'.

**01.07.1993** Service defect: 'D - MECHANICAL EQUIPMENT COMPRESSOR - COUPLINGS ON DRIVE SHAFT FROM GEARBOX TO COMPRESSOR CHANGED.'.

**01.07.1993** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - ISOLATING COCKS ON PEDESTAL REPLACED,A/C LEAKING IN THE OFFPOSITION. FEED VALVE ALSO REPLACED.'.

**05.11.1993** Service defect: 'B - AUXILLARY MACHINES - ALL BRUSHES CHANGED IN AUX GEN, A/C SHORT. BRUSHES BEDDED IN'.

**05.11.1993** Service defect: 'B - ENGINE - ENGINE REVS SDJUSTED.'.

**05.11.1993** Service defect: 'B - ENGINE GOVERNOR - ENG GOVERNOR CAM SWITCH ROLLERS REPLACED, A/C NOT ROTATING.'.

**05.11.1993** Service defect: 'B - MAIN GENERATOR - TWO BRUSHES CHANGED, A/C SHORT.'.

**05.11.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVES ADJUSTED.'.

**30.12.1993** Service defect: 'UN - CONTACTOR INTERLOCKS - THROTTLE CONTACT TIPS CLEANED.'.

**30.12.1993** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP SEAL REPLACED A/C LEAKING.'.

**06.01.1994** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED, A/C LEAKING.'.

**06.01.1994** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CAM SWITCH ROLLERS REPLACED AT PT. ADELAIDE ON THE 4/11/93.'.

**06.01.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR MAGNET VALVE REPLACED AT PT. ADELAIDE.'.

**15.02.1994** Service defect: 'C - BATTERY MAINTENANCE - BATTERIES TOPPED UP.'.

**15.02.1994** Service defect: 'C - COOLING SYSTEM WATER PUMP - WATER PUMP REPLACED, A/C LEAKING.'.

**15.02.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - 'A'END H/LIGHT REPLACED. 8 GLOBES REPLACED. 4 SPARE GLOBESSUPPLIED. 1 SPARE H/LIGHT SUPPLIED. BALLAST LAMP REPLACED.'.

**24.06.1994** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - REPAIRED FAULT IN WIRING TO LOAD REGULATOR.'.

**517**

Details: locomotive '517 Y' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $128400
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 23.02.1967
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**BSG Code:** LBAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 30.10.1996 | | |
| Last Lift: | 07.03.1978 | | |
| SW Service Mileage: | 327739 KM | SW Service Date: | 08.08.1994 |
| B Service Mileage: | 341867 KM | B Service Date: | 27.05.1996 |
| C Service Mileage: | 340518 KM | C Service Date: | 10.01.1996 |
| D Service Mileage: | 342921 KM | D Service Date: | 02.10.1996 |
| US Service Mileage: | 342997 KM | A Service Date: | 30.10.1996 |

**17.12.1986** Alteration complete ‘APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)’.

**20.07.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - CONTORL AIR PRESSURE BOOKED HIGH.CHECKED OK IN DEPOT.’.

**25.07.1989** Service defect: ‘UN - AUXILLARY MACHINES - AUX GEN BELT REPLACED.’.

**17.08.1989** Service defect: ‘B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - 2 NEW BUSHES FITTED TO FAN CLUTCH.’.

**08.09.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED A/C CLOCK NOT WORKING.’.

**05.10.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - RHS FEED VALVE CHANGED A/C OVERCHARGING.’.

**15.11.1989** Service defect: ‘UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSHES REPLACED.’.

**30.11.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE VALVE CHANGED A/C FAULTY.’.

**12.02.1990** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - BALLAST LAMP REPLACED A/C SPEEDO NOT WORKING.’.

**16.03.1990** Service defect: ‘UN - ENGINE CYLINDER HEADS - NO1 CYL HEAD & PISTON CHANGED A/C BROKEN VALVE. FREE END ENGINE MOUNT REPLACED.’.

**29.05.1990** Service defect: ‘UN - BATTERY MAINTENANCE - LOCO JUMP STARTED A/C FLAT BATTERIES.’.

**06.06.1990** Service defect: ‘UN - ELECTRICAL MISC - FUSES/HOLDERS - HOT ENGINE SWITCH REPLACED.’.

**22.07.1990** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - ‘B‘END SAND PIPES CLEARED.’.

**15.05.1991** Service defect: ‘UN - GENERAL ACCIDENT - DERAILMENT REPAIRS CARRIED OUT OK,BRAKES ADJUSTED.’.

**15.05.1991** Service defect: ‘UN - WINDOW SEALS TO REPAIR.’.

**16.05.1991** Service defect: ‘UN - GENERAL - DOOR & WINDOW SEALS REPLACED.SEATS REPLACED,RHS ASHTRAY REPLACED,A/C MISSING.’.

**29.05.1991** Service defect: ‘UN - BATTERY MAINTENANCE - BATTERIES CHANGED.’.

**29.05.1991** Service defect: ‘UN - FLATS,TO MONITOR.30/5.’.

**26.07.1991** Service defect: ‘UN - ENGINE - CAM FOLLOWER REPLACED & CAM SLIP STONED, A/C INLET VALVE CAM FOLLOWER ROLLER COLLAPSED ON NO 1 CYCLINDER.’.

**26.07.1991** Service defect: ‘UN - RADIATOR/PRESSURISING FAN - NEW FAN CLUTCH FITTED.FREE END GESR BOX SHAFT CHECKED OK.’.

**01.08.1991** Service defect: ‘UN - BATTERY MAINTENANCE - BATTERY BOXES REPAIRED.’.

**25.09.1991** Service defect: ‘UN - OTHER BODY REPAIRS - CAB DOOR RUBBER REPAIRED.HINGE ON CAR SIDE DOORS REPAIRED.’.

**11.10.1991** Service defect: ‘UN - ENGINE WATER LEAK - NO 3 WATER ELBOW REPLACED,A/C CRACKED.’.

**11.10.1991** Service defect: ‘UN - OTHER BODY REPAIRS - REAR VIEW MIRROR ‘A‘END REPLACED.’.

**04.08.1992** Service defect: ‘SW - AUXILLARY MACHINES - AUX. GENERATOR REPLACED.’.

**04.08.1992** Service defect: ‘SW - ELECTRICAL MISCELLANEOUS - LOAD REGULATOR REMOVED.-PRINTED CIRCUIT BOARD FITTED.’.

**04.08.1992** Service defect: ‘SW - MECHANICAL EQUIPMENT - THROTTLE AIR LEAK REPAIRED.’.

**10.08.1992** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - CONTROL BOX REPAIRS: A/C BURNT VARISTORS.’.

**25.08.1992** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - CONTROL BOARD REPAIRED AND TESTED OK A/C BURNT OUT.’.

**27.08.1992** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - CONTROL BOARD RESISTORS REPAIRED AGAIN]]]’.

**09.09.1992** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH REPAIRED. NEGATIVE WIRE TO HOT PLATE DOWNTO EARTH. WIRE RE-INSULATED.’.

**09.09.1992** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - ENGINE CONTROL PLUG CLEANED AND FREED OF RUST.’.

**21.09.1992** Service defect: ‘TS - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.’.

**20.10.1992** Service defect: ‘UN - BOGIE - L4 AXLE BOX FREED UP, A/C SIEZED. WEAR PLATES GROUND. HORNSTAYS INSTALLED.’.

**20.10.1992** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE GEAR INSTALLED.’.

**04.11.1992** Service defect: ‘B - RADIATOR/PRESSURISING FAN - FAN CLUTCH REPAIRED.’.

**16.12.1992** Service defect: ‘UN - ENGINE - THYRISTORS CUT OFF, GOVERNOR LINKAGES OK, CAM SWITCHES ADJUSTED, LOCO POWERS UP OK, A/C ENGINE HUNTING.’.

**22.12.1992** Service defect: ‘UN - GENERAL - HOT PLATE OK. FLOOR SECTION REPAIRED.OK.’.

**22.12.1992** Service defect: ‘UN - MAIN GENERATOR - GENERATOR EARTH FAULT OK.’.

**25.08.1993** Service defect: ‘B - MECHANICAL EQUIPMENT - FAN CLUTCH BUSHES REPLACED A/C U/S.’.

**25.08.1993** Service defect: ‘UN - BOGIE - NO.2 T/M BELLOWS REPLACED A/C SPLIT.’.

**20.09.1993** Service defect: ‘UN - GENERAL - SEAT REPAIRED.’.

**20.09.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SHAFT CHECKED OK. TWO BOLTS REPLACED. TOP BRASS BUSH REPLACED. FAN HUB BEARING GREASED.’.

**20.09.1993** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - RHS BRAKE VALVE ISOLATOR REPLACED.’.

**11.11.1993** Service defect: ‘C - GENERAL - DOOR HINGE REPLACED.’.

**02.12.1993** Service defect: ‘UN - COOLING SYSTEM RADIATOR - RADIATORS CLEANED.’.

**02.12.1993** Service defect: ‘UN - GENERAL ACCIDENT -

COLLISION REPAIRS - HANDRAILS 'A'END OBS SIDE REPAIRED.'.

**31.12.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - SHORT SHAFT REPLACED.'.

**31.12.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - BALLAST LAMP REPLACED.'.

**08.02.1994** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - LOCO SENT TO WHEEL LATHE, A/C HIGH 'G' GAUGE READING.'.

**02.03.1994** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - INSTALLATION OF GEARBOX COMPLETED - OIL LEVELS OK - FOOT PLATES WASHED, RUN UP OK.'.

**31.03.1994** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH REPAIRS COMPLETED.'.

**10.06.1994** Service defect: 'UN - AUXILLARY MACHINES - AUX GENERATOR REPLACED. AUX GEN VOLTS= 110.'.

**15.06.1994** Service defect: 'UN - NO FAULT FOUND - T/M'S AND MAIN/GEN CHECKED FOR GR'S, NONE FOUND. BRUSHES OK.LOCO MEGGERS 70KOHMS. LR CONTACTS CHECKED OK.'.

**22.06.1994** Service defect: 'UN - TRACTION MOTOR - T/M BLOWER BELTS REPLACED. T/M'S INSPECTED OK.'.

**518**

Details: locomotive '518 A' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $128400
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 17.03.1967
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**BSG Code:** LBAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 30.09.1996 | | |
| Last Lift: | 28.04.1978 | | |
| SW Service Mileage: | 297624 KM | SW Service Date: | 08.08.1994 |
| B Service Mileage: | 311934 KM | B Service Date: | 26.07.1996 |
| C Service Mileage: | 7959416 KM | C Service Date: | 18.12.1995 |
| D Service Mileage: | 304141 KM | D Service Date: | 24.02.1995 |
| US Service Mileage: | 312420 KM | A Service Date: | 30.09.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**22.02.1990** Service defect: 'B - 'A'COUPLING CRACKED.'.

**14.08.1992** Service defect: 'SW - BATTERY MAINTENANCE - ALL BATTERIES CHANGED A/C WOULD NOT HOLD CHARGE.'.

**14.08.1992** Service defect: 'SW - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR MODIFIED TO CIRCUIT BOARD.'.

**14.08.1992** Service defect: 'SW - ENGINE GOVERNOR ELECTRICAL - STICKY SOLENOID REPLACED IN GOVERNOR.'.

**14.08.1992** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - DISTRIBUTING VALVE CHANGED. EX 514.'.

**09.11.1992** Service defect: 'B - LUBRICATING SYSTEM - ALL OIL FILTERS REPLACED.'.

**09.11.1992** Service defect: 'B - RADIATOR/PRESSURISING FAN - FAN CLUTCH REPAIRED.'.

**16.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR SYSTEMS BLOWN OUT, A/C NO INDEPENDANT BRAKE, BRAKE VALVES REPLACED.'.

**12.07.1993** Service defect: 'B - OTHER BODY REPAIRS - NON SLIP MATERIAL FITTED TO STEPS.'.

**12.07.1993** Service defect: 'B - RADIATOR/PRESSURISING FAN - FAN CLUTCHES REPLACED WITH S/HAND ONES,A/C U/S.'.

**25.08.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - RCR TENSION SPRING LOOSENED A/C HAVING TROUBLE PICKING UP WHEN STARTED, CAUSING NO CHARGING/ACTIVATING BUZZER & LIGHTS'.

**25.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAM SWITCHES ADJUSTED. M1 4C/4D AUX. CHANGED A/C BROKEN.'.

**30.09.1993** Service defect: 'D - MECHANICAL EQUIPMENT COMPRESSOR - REPLACED LONG DRIVE SHAFT & COUPLERS.'.

**09.12.1993** Service defect: 'UN - COOLING SYSTEM - NO 2 WATER ELBOW GASKETS REPLACED.'.

**09.12.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BALLAST LAMP REPLACED, CHECKED OK.'.

**09.12.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CLUTCH SHOES REPLACED.'.

**17.12.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MOVABLE CARBON CONTACT TIP REPLACED ON BCC, A/C PITTED.'.

**17.12.1993** Service defect: 'B - ENGINE - OIL FILTERS CHANGED.'.

**17.12.1993** Service defect: 'B - FUEL SYSTEM - FUEL STRAINERS CLEANED.'.

**17.12.1993** Service defect: 'B - FUEL SYSTEM INJECTORS - FUEL INJECTORS CHANGED.'.

**29.12.1993** Service defect: 'UN - AUXILLARY MACHINES - FUEL PUMP REPLACED A/C DOWN TO EARTH.'.

**29.12.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - PINS IN MAIN GENERATOR PLUG TRACKING DOWN TO EARTH,REPAIRED'.

**07.03.1994** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK REPAIRED, HOSE RENEWED 'B'END.'.

**07.03.1994** Service defect: 'UN - GENERAL - LHS DRIVERS SEAT REPAIRED, A/C LOOSE.'.

**07.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER REPAIRED, A/C BROKEN.'.

**23.03.1994** Service defect: 'C - 'FF'LUG ON NO.3 T/M TO BE RE-LUGGED, A/C HOT'.

**23.03.1994** Service defect: 'C - CONNECTION.23/3/94.'.

**23.06.1994** Service defect: 'B - COOLING SYSTEM - NO 2 AND 3 WATER ELBOW REPLACED.'.
**23.06.1994** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET AIR FILTER REPLACED.'.
**23.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT - THROTTLE ACTUATOR VALVE REPLACED.'.
**23.06.1994** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - LONG HOOTER + MOUNTNG REPAIRED AND REPLACED.'.
**23.06.1994** Service defect: 'B - RADIATOR/PRESSURISING FAN - FAN CLUTCH SHOES REPLACED, FAN CLUTCH DRUM REPLACED.'.

**519**

Details: locomotive '519 J' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $128400
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 07.04.1967
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 12.02.94
**BSG Code:** LSAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 13.03.1993 | | |
| Last Lift: | 24.11.1983 | | |
| SW Service Mileage: | 289598 KM | SW Service Date: | 27.01.1989 |
| B Service Mileage: | 353502 KM | B Service Date: | 25.02.1993 |
| C Service Mileage: | 308793 KM | C Service Date: | 01.05.1990 |
| D Service Mileage: | 345267 KM | D Service Date: | 30.09.1992 |
| WT Service Mileage: | 303367 KM | WT Service Date: | 16.11.1989 |
| US Service Mileage: | 351103 KM | A Service Date: | 18.01.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**04.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE BOOKED FOR OVERCHARGING.ADJUSTED & CHECKED OK.'.
**06.11.1989** Service defect: 'UN - BROKEN PIPE - OIL PIPE NEAR WATER PUMP REPAIRED A/C CRACKED.'.
**06.11.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSHES REPLACED.'.
**06.11.1989** Service defect: 'UN - EXHAUST CONNECTOR TO REPLACE A/C SPLT'.
**06.11.1989** Service defect: 'UN - NIL IN STOCK TO REPLACE'.
**10.01.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSHES REPLACED.FAN GEAR BOX OIL LEAK REPAIRED.'.
**27.04.1990** Service defect: 'UN - GENERAL ACCIDENT - TM COVER & COVER HOLDING POST REPLACED A/C DERAILMENT.'.
**05.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER CHANGED A/C BENT.'.
**14.01.1991** Service defect: 'UN - FAN CLUTCH SHOES TO BE REPAIREDNIL STOCK'.
**14.03.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - PISTON PACKINGS REPLACED ON REVERSER.A/C REVERSER NOT THROWING OVER.'.
**09.05.1991** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSHES REPLACED.'.
**06.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CHANGED FINGER CONTACTS ON WSR1,A/C SHORTED OUT.'.
**06.06.1991** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - BUSHES IN FAN CLUTCH REPLACED.'.
**06.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - DRIVE SHAFT FROM GEARBOX TO COMPRESSOR REPLACED.'.
**17.06.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK ABOVE PLUG REPAIRED BY TIGHTENING HOSECLAMP.'.
**17.06.1991** Service defect: 'UN - MAIN GENERATOR - CONTROL PLUG ON MAIN GEN REPAIRED,SEALED WITH SILICONE,A/C BURNT.'.
**30.07.1991** Service defect: 'UN - FUEL SYSTEM LINES - NO 4 LOW PRESSURE FUEL LINE REPLACED,A/C CRACKED.'.
**30.07.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL & FILTERS CHANGED.'.
**22.10.1991** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSHES REPAIRED.'.
**09.04.1992** Service defect: 'UN - GENERAL - WINDOW REPAIRED.TW MECHNICAL,COMPLETED.HATCH REPLACED.'.
**10.04.1992** Service defect: 'TS - GENERAL LOSS OF POWER - FIELD EFFECT TRANSISTOR REPLACED,A/C LOSING POWER.LOCO TESTED OK.'.
**12.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE REPLACED.'.
**08.07.1992** Service defect: 'UN - BATTERY MAINTENANCE - LOCO HAD FLAT BATTERIES.-PUT ON BATTERY CHARGER.'.
**08.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FAN CLUTCH REPLACED A/C BUSHES U/S.'.
**08.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MOUNTING BOLTS TIGHTENED.'.
**31.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REWORKED PRINTED CIRCUIT BOARD INSTALLED.-TESTED OK.'.
**03.12.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - LAYRUB COUPLINGS REPLACED.'.
**14.01.1993** Service defect: 'TS - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN GEARBOX INSTALED AND RUN OK.'.
**18.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - THROTTLE LINKAGES LOOSENED.OK.'.

**25.02.1993** Service defect: 'B - COOLING SYSTEM - COOLANT CHANGED.'.
**25.02.1993** Service defect: 'B - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.
**25.02.1993** Service defect: 'B - MAIN GENERATOR - MAIN GENERATOR PLUG REPAIRED A/C EARTHED DUE TO GETTING WET.'.

**520**

Details: locomotive '520 F' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $128400
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 28.04.1967
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 12.02.94
**BSG Code:** LBAF

| | | | |
|---|---|---|---|
| Return to Service Date: | 01.04.1992 | | |
| Last Lift: | 05.09.1977 | | |
| SW Service Mileage: | 275709 KM | SW Service Date: | 08.05.1987 |
| B Service Mileage: | 276599 KM | B Service Date: | 11.06.1987 |
| C Service Mileage: | 272981 KM | C Service Date: | 16.01.1987 |
| D Service Mileage: | 282266 KM | D Service Date: | 23.11.1987 |
| US Service Mileage: | 4289 KM | A Service Date: | 01.04.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**01.04.1992** Service defect: 'UN - THIS LOCO STORED.'.

**521**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**522**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**523**

Details: locomotive '523 J' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $133960
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 20.12.1967
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 12.02.94
**BSG Code:** LSAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 28.10.1992 | | |
| Last Lift: | 13.04.1982 | | |
| SW Service Mileage: | 300862 KM | SW Service Date: | 28.10.1992 |
| B Service Mileage: | 280156 KM | B Service Date: | 11.08.1990 |
| C Service Mileage: | 287885 KM | C Service Date: | 14.03.1991 |
| D Service Mileage: | 264004 KM | D Service Date: | 10.07.1989 |
| US Service Mileage: | 300862 KM | A Service Date: | 03.12.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**10.07.1989** Service defect: 'D - D SERVICE TO COMPLETE MECHANICAL'.
**03.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR BOOKED FOR NOT LOADING.CHECKED OK IN DEPOT.'.
**10.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MAGNET VALVE REPLACED A/C FAULTY.'.
**13.11.1989** Service defect: 'UN - GENERAL - BROKEN WIND SCREEN REPLACED.'.
**23.01.1990** Service defect: 'UN - LUBRICATING SYSTEM - CHECKED FOR FUEL DILUTION,OK.'.
**09.02.1990** Service defect: 'UN - EXHAUST - NO1 (LONG) EXHAUST CONNECTOR REPLACED.'.
**09.02.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - 2 FAN CLUTCH BUSHES REPLACED.'.
**22.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DIST VALVE,BOTH IND B/VALVES,LH ISOLATING COCK,IR VALVES,'B'END BP COCK,RH AUTO B/VALVE,AUTO DRAIN REPLACED.'.
**22.05.1990** Service defect: 'UN - GENERAL ACCIDENT - DERAILMENT REPAIRS COMPLETED.'.
**09.07.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BELT REPLACED.'.
**09.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED.'.
**24.10.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - GEARBOX TO COMPRESSOR SHAFT REPLACED.'.
**27.01.1991** Service defect: 'UN - LUBRICATING SYSTEM LOW OIL PRESSURE - LOW OIL PRESSURE CHECKED OKAY IN DEPOT'.
**01.02.1991** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LINE REPAIRED, REFILLED WITH OIL.'.
**02.02.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - OPR RELAY REPLACED A/C OPEN CIRCUIT

COIL'.

**25.02.1991** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED.TOPPED UP COOLANT. A/C BATTS TO REPLACE.'.

**07.05.1991** Service defect: 'TW - ENGINE WATER LEAK TO LOCATE.RADIO CIRCUIT BREAKER'.

**07.05.1991** Service defect: 'TW - TO CHECK A/C TRIPPING DURING SHUNTING.'.

**07.06.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CAM SWITCHES ADJUSTED,A/C POWER LOSS.'.

**20.06.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO 3 INJECTOR CHANGED,A/C FUEL STARVATION.'.

**20.06.1991** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMPS ADJUSTED,A/C FUEL STARVATION.'.

**25.06.1991** Service defect: 'UN - FUEL SYSTEM - FUEL FILTERS REPLACED,A/C BLOCKED.STRAINER CLEANED,ALL SUCTION PIPES CLEANED & CHECKED OK.'.

**25.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - L.H. AUTO BRAKE VALVE GREASED & CLEANED.'.

**25.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR (CONTROL) PRESSURE ADJUSTED TO 75PSI.'.

**17.10.1991** Service defect: 'UN - CONTACTOR EP VALVES - REVERSER MAGNET VALVE REPAIRED.'.

**17.10.1991** Service defect: 'UN - GENERAL - RHS SEAT REPAIRED.'.

**17.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER & TRAIN PIPE REPAIRED.'B'END UNCOUPLING ROD REPAIRED.'.

**30.10.1991** Service defect: 'UN - ENGINE WATER LEAK - REPAIRED WATER HOSE BY WATER PUMP,A/C LEAKING.'.

**30.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - RHS FEED VALVE REPLACED.LHS ISOLATING COCK REPLACED.'.

**03.12.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CONTACT REPAIRED ON COMP GOV PRESSURE SWITCH.'.

**03.12.1991** Service defect: 'UN - FUEL SYSTEM LINES - ONE H.P. FUEL LINE REPLACED.'.

### 524

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### 525

Details: locomotive '525 E' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $133960
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 08.03.1968
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 20.09.91
**BSG Code:** LSAF

| | | | |
|---|---|---|---|
| Return to Service Date: | 05.04.1991 | | |
| Last Lift: | 24.06.1981 | | |
| SW Service Mileage: | 305832 KM | SW Service Date: | 09.01.1990 |
| B Service Mileage: | 317068 KM | B Service Date: | 02.10.1990 |
| C Service Mileage: | 312122 KM | C Service Date: | 06.06.1990 |
| D Service Mileage: | 286528 KM | D Service Date: | 30.11.1988 |
| US Service Mileage: | 323043 KM | A Service Date: | 05.04.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**18.07.1989** Service defect: 'UN - FUEL SYSTEM LINES - FUEL RETURN PIPE GF FITTING REPLACED A/C CRACKED & LEAKING FUEL.'.

**30.07.1989** Service defect: 'UN - GENERAL LOSS OF POWER - LOCO BOOKED FOR LOSS OF POWER WHILE HAULING TRAIN.CHECKED, UNABLE TO FAULT IN DEPOT.'.

**17.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - COMPLETE SET OF BATTERIES CHANGED.BATTERY BOX DOOR REPLACED.'.

**13.09.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - LUG ON NO4 TM LEAD REPLACED A/C BLOWN OFF.'.

**11.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRAVELS ADJUSTED.'.

**18.12.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - OIL PIPE TO GOVERNOR REPAIRED A/C LEAKING.'.

**18.12.1989** Service defect: 'UN - SUPERCHARGER MOUNTING BOLTS LOOSE.18/12*'.

**19.12.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FSC BOOKED STUCK IN.CHECKED,NO FAULT FOUND.'.

**09.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BLOCKS REPLACED BRAKES ADJUSTED.'.

**22.02.1990** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL PIPE REPAIRED A/C LEAKING.'.

**22.02.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL HOSES UNDER WATER PUMP REPAIRED A/C LEAKING.'.

**23.04.1990** Service defect: 'UN - FUEL SYSTEM - FUEL PIPE FROM FUEL TANK IN ENGINE ROOM REPLACED A/C LEAKING'.

**23.05.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO MOUNTING BOLTS REPLACED.'.

**07.06.1990** Service defect: 'UN - TRACTION MOTOR - NO3 & 4 TM'S 5 HOT LUGS REPLACED.'.

**22.06.1990** Service defect: 'UN - COOLING SYSTEM - ALL WATER HOSE CLAMPS TIGHTENED A/C WATER LEAKS.'.

**22.06.1990** Service defect: 'UN - RUBBER HOSES AROUND WATER PUMP TO MONITOR.'.

**27.07.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - LOSS OF POWER,CHECKED OK IN DEPOT.'.
**10.08.1990** Service defect: 'UN - EXHAUST - EXHAUST STACK STUDS REPLACED.'.
**21.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRAVELS ADJUSTED.'.
**28.08.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**07.03.1991** Service defect: 'UN - GENERAL - RHS SUNSHADE CLIP REPAIRED.'.
**05.04.1991** Service defect: 'UN - LOCO STORED'.

**526**

Details: locomotive '526 N' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $133960
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 01.04.1968
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 15.01.94
**BSG Code:** LSAF

| | | | |
|---|---|---|---|
| Return to Service Date: | 01.04.1992 | | |
| Last Lift: | 15.12.1978 | | |
| SW Service Mileage: | 317485 KM | SW Service Date: | 23.03.1989 |
| B Service Mileage: | 335346 KM | B Service Date: | 28.04.1990 |
| C Service Mileage: | 329351 KM | C Service Date: | 22.12.1989 |
| D Service Mileage: | 341877 KM | D Service Date: | 29.10.1990 |
| WT Service Mileage: | 317482 KM | WT Service Date: | 23.03.1989 |
| US Service Mileage: | 364821 KM | A Service Date: | 01.04.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**28.07.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - RHS RADIATOR CHANGED.'.
**28.07.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO3 CYL HEAD CHANGED.'.
**31.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRAVELS ADJUSTED.'.
**14.08.1989** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BELT CHANGED.'.
**22.08.1989** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.
**15.09.1989** Service defect: 'UN - AUXILLARY MACHINES - TRACTION MOTOR BLOWER BELTS CHANGED'.
**05.10.1989** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BELT REPLACED.'.
**13.12.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.
**22.12.1989** Service defect: 'C - TURBO TO MONITOR A/C NOISY.'.
**30.01.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO3 INJECTOR CHANGED.'.
**30.01.1990** Service defect: 'UN - FUEL SYSTEM PUMP - NO1 FUEL PUMP CHANGED.PUMP TIMING ADJUSTED.'.
**12.02.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BELT REPLACED.'.
**30.04.1990** Service defect: 'UN - BATTERIES TO REPLACE.'.
**02.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - NEW SET OF BATTERIES FITTED.'.
**10.05.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BELT REPLACED.'.
**15.05.1990** Service defect: 'UN - AUXILLARY MACHINES - NEW AUX BELT FITTED.NEW AUX GEN MOUNTING BOLT FITTED.'.
**18.05.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN & TM BLOWER BELTS REPLACED & REALIGNED.'.
**04.06.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**13.07.1990** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - WSR1 REPLACED A/C SHORT.'.
**07.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 16 BRAKE BLOCKS CHANGED.'.
**25.10.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**01.11.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GENERATOR BELT REPLACED.AUX GEN MOUNTING BOLT REPLACED A/C BROKEN.'.
**18.03.1991** Service defect: 'UN - CONTACTOR EP VALVES - COMPRESSOR MAGNET VALVE CHANGED.'.
**18.03.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CLUTCH REPAIRED.'.
**06.05.1991** Service defect: 'UN - REVERSER - PISTON PACKINGS CHANGED ON REVERSER,AIR HOSES CHANGED.'.
**07.06.1991** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP PLUG REPLACED.'.
**05.07.1991** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH REPAIRS COMPLETED.'.
**09.08.1991** Service defect: 'UN - FUEL SYSTEM - FUEL JOINTS TIGHTENED, A/C FUEL LEAK.'.
**09.08.1991** Service defect: 'UN - GENERAL - WINDOW SHIELD REPLACED.'.
**09.08.1991** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN DRIVE COUPLING ON TOP OF FAN GEARBOX REPLACED, A/C U/S.'.
**09.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED, A/C TAKEN FOR 514.'.
**23.08.1991** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - OIL TEMP GAUGE REPLACED.'.
**23.08.1991** Service defect: 'UN - EXHAUST - EXHAUST BELLOWS REPLACED.'.
**23.08.1991** Service defect: 'UN - FUEL SYSTEM - FUEL PIPE SECURED.'.
**23.08.1991** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP BRACKET REPAIRED.'.

**23.08.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CLUTCH REPAIRED.'.
**04.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - CAB DOOR REPAIRED. STEPS PAINTED.'.
**29.11.1991** Service defect: 'UN - GENERAL - WINDOW BOLTS L/SIDE REPAIRED.'.
**29.11.1991** Service defect: 'UN - MAIN GENERATOR - BELTS ON MAIN GENERATOR REPLACED.'.
**16.12.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BASE MOUNTING PLATE WELDED,AUX GEN BELT REPLACED.AUXGEN RECONNECTED.'.
**16.12.1991** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LINE REPLACED,A/C REMOVED FOR 523.'.
**01.04.1992** Service defect: 'UN - THIS LOCO STORED.'.

**527**

Details: locomotive '527 W' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $137330
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 17.02.1969
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**BSG Code:** LSAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 06.09.1995 | | |
| Last Lift: | 13.06.1985 | | |
| SW Service Mileage: | 410147 KM | SW Service Date: | 22.09.1994 |
| B Service Mileage: | 455660 KM | B Service Date: | 06.09.1995 |
| C Service Mileage: | 419187 KM | C Service Date: | 16.06.1995 |
| D Service Mileage: | 408476 KM | D Service Date: | 14.07.1994 |
| WT Service Mileage: | 653317 KM | WT Service Date: | 05.05.1994 |
| US Service Mileage: | 422834 KM | A Service Date: | 08.08.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**04.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MULTIPLE UNIT MODS CARRIED OUT.'.
**04.07.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 3 CYL HEAD CHANGED.'.
**04.07.1989** Service defect: 'UN - ENGINE LINER - NO 3 LINER CHANGED.PISTON & RINGS RENEWED.'.
**14.07.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.LOBE ON SPEED PISTON CAM MISSING,REPLAC-ED.GOVERNOR CAM SWITCHES ADJUSTED.'.
**26.07.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER BOOKED STICKY,CHECKED OK IN DEPOT.'.
**01.08.1989** Service defect: 'SW - MECH. EQUIPMENT RADIATOR FAN GEARBOX - CLUTCH SHOE & 2 BUSHES REPLACED.'.
**02.08.1989** Service defect: 'UN - ENGINE - AIR VALVE ON MASTER CONTROLLER LUBRICATED A/C STICKY.'.
**09.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - KETTLE POWER POINT REPLACED.'.
**10.08.1989** Service defect: 'UN - FUEL SYSTEM PUMP - 3 FUEL PUMP'O'RINGS CHANGED.'.
**10.08.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**07.09.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - CU TRAIN WIRE REMOVED A/C MAIN RES SAFETY VALVE BLOWING.'.
**11.09.1989** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BRUSHES CHANGED.'.
**14.09.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - LONG DRIVE SHAFT REPLACED'.
**14.11.1989** Service defect: 'UN - BATTERY MAINTENANCE - FULL SET OF BATTERIES REPLACED.'.
**14.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT BOLTS REPLACED.'.
**12.12.1989** Service defect: 'C - EXHAUST - EXHAUST CONNECTOR CHANGED.'.
**12.12.1989** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN COUPLER CHANGED.'.
**10.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV CHECKED OK IN DEPOT.'.
**28.02.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT REPLACED.NEW LAY RUBBERS IN COUPLINGS'.
**08.03.1990** Service defect: 'UN - ENGINE - FREE END ENGINE MOUNT REPLACED.'.
**09.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED,EX WTM.'.
**18.04.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSHES REPLACED.'.
**22.07.1990** Service defect: 'UN - ENGINE - NO3 CAM PUMP FOLLOWER REPLACED.'.
**22.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT REPLACED.'.
**04.08.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSH BOLT REPLACED.'.
**29.08.1990** Service defect: 'UN - FUEL SYSTEM - BOOKED FOR FUEL LEAKS.CHECKED,NO LEAKS FOUND.'.
**20.11.1990** Service defect: 'UN - -
**20.11.1990** Service defect: 'UN - BOGIE - SIDE BEARER CLEARANCES ADJUSTED.'.
**20.11.1990** Service defect: 'UN - GENERAL - 'B'END SAFETY BRACKET WELDED.'.
**10.12.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - LONG DRIVE SHAFT & 2 DRIVE COUPLINGS REPLACED.'.
**12.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR AND MAGNET VALVE CHANGED A/C OVERCHARGEDMAIN

RESERVIOR'.

**20.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR PIPE & HOSE REPLACED-'A'END.'.

**10.04.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - DROPPING POWER.REPLACED 20 T/MOTOR BRUSHES A/C BROKEN.'.

**05.07.1991** Service defect: 'UN - BOGIE - 'B'END BOGIE CHANGED.'.

**05.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ISOLATING COCKS CHANGED,R/H 70 LB FEED/VALVE CHANGED.'.

**05.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - L/H & R/H MIRRORS CHANGED.'.

**27.08.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN CLUTCH & DRUM REPAIRED, A/C U/S.'.

**07.04.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - CABLES INSULATED ON NO 2 T/MOTOR,A/C RUBBING.3 BRUSHES CHANGED NO 2 T/M,1 ON NO 1 T/MOTOR,A/C CONTINUOUS GR'S.'.

**07.04.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH REPAIRED,CHECKED OK.'.

**04.05.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH REPAIRED.OK.'.

**04.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - NOISY SMALL COMPRESORDRIVE SHAFT REPLACED.OK.'.

**04.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - ELECTRICAL DOORS REPLACED.OK.'.

**08.05.1992** Service defect: 'UN - GENERAL - ALL MODS COMPLETED.'.

**11.12.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - CLUTCH DRIVE CHANGED - RAD FAN OK.'.

**11.12.1992** Service defect: 'UN - WATER PUMP SLOW LEAK GLAND. FAN DRUM FOR'.

**11.12.1992** Service defect: 'UN - REPLACEMENT, A/C BADLY WORN.11/12.'.

**08.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT REPLACED EX 523, A/C U/S.'.

**26.02.1993** Service defect: 'D - ENGINE WATER LEAK - WATER PUMP REPLACED A/C LEAKING.'.

**26.02.1993** Service defect: 'D - MECHANICAL EQUIPMENT - FAN DRIVE CLUTCH DRUM REPLACED.'.

**12.03.1993** Service defect: 'UN - GENERAL - LOG BOOK REPS COMPLETED.'.

**12.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE REPAIRS COMPLETED. PCS TESTED OK.'.

**17.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE CHANGED & LOCO TESTED OK.'.

**31.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER PIPING FITTED & CONNECTED,BRAKES TESTED OK.'.

**04.08.1993** Service defect: 'C - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.

**04.08.1993** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - COUPLER PLATE BOLTS REPLACED.'.

**03.09.1993** Service defect: 'UN - FUEL SYSTEM - FUEL LEAKS - STRIPPED FUEL LINE FROM ASPIRATOR BACK AND REPLACED 'ERMETRO' FITTINGS.'.

**03.09.1993** Service defect: 'UN - GENERAL - R.H.S. SEAT BASE REPLACED.'.

**01.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL LEAK REPAIRED.'.

**01.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER REPLACED A/C EXCESSIVE WEAR.'.

**05.11.1993** Service defect: 'B - AUXILLARY MACHINES - AUX GEN MOUNTING BOLTS REPLACED.'.

**05.11.1993** Service defect: 'B - ENGINE - OIL & WATER CHANGED.'.

**20.12.1993** Service defect: 'UN - GENERAL ACCIDENT - ACCIDENT REPAIRS COMPLETED.'.

**30.12.1993** Service defect: 'SW - BLOCKED FILTERS - AIR FILTER REPLACED WHERE MISSING ON RHS ENGINE ROOM DOOR.'.

**30.12.1993** Service defect: 'SW - GENERAL - RERAILING EQUIPMENT REPLACED.'.

**30.12.1993** Service defect: 'SW - LUBRICATING SYSTEM - WATER DRAINED, A/C OIL IN WATER. HARDLY ANY OIL FOUND. RE-FILLED AND SENT TO TRAFFIC.'.

**30.12.1993** Service defect: 'SW - LOCO TO MONITOR FOR OIL IN WATER A/C NO OBVIOUS'.

**30.12.1993** Service defect: 'SW - FAULTS FOUND.30/12/93.'.

**10.01.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - 2 IN-LET VALVES REPLACED AND ONE DIS-CHARGE VALVE REPLACED, A/C AIR-COMP. SAFETY VALVE KEPT BLOWING OFF.'.

**04.02.1994** Service defect: 'C - OTHER BODY REPAIRS - LEFT SIDE DOOR REPAIRED.'.

**21.03.1994** Service defect: 'TS - BATTERY MAINTENANCE - FLAT BATTERIES. BATTERIES CHARGED AND TOPPED UP WITH WATER.BATTERY CHARGER ON LOCO CHARGING OK.'.

**21.03.1994** Service defect: 'TS - FLATS ON 'B' BOGIE TO MONITOR.21/3/94.'.

**20.04.1994** Service defect: 'B - GENERAL - 2 L/H MIRRIRS REPLACED.'.

**20.04.1994** Service defect: 'B - LUBRICATING SYSTEM - OIL STRAINER REPLACED.'.

**20.04.1994** Service defect: 'B - RADIATOR/PRESSURISING FAN - FAN CLUTCH REPLACED, 2 NEW RESILIENT BUSHES FITTED.'.

**28.04.1994** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR LINKAGE REPLACED EX 505. IDLE 450RPM N8 - 880RPM.'.

**28.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - FEED VALVE REPLACED.'.

**28.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADERS CLEANED AND ORIFICE TESTED OK. GUARD REPAIRED ON FAST COUPLING.'.

**528**

Details: locomotive '528 X' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO

**Original Cost:** $137330
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 01.07.1969
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 15.01.94
**BSG Code:** LSAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| B Service Mileage: | 254850 KM | B Service Date: | 23.06.1988 |
| C Service Mileage: | 280263 KM | C Service Date: | 15.01.1992 |
| US Service Mileage: | 281265 KM | A Service Date: | 10.01.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**27.03.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER FAN FITTED.'.
**08.01.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN GEARBOX DRIVE SHAFT REPLACED.'.
**08.01.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FAN CLUTCH REPAIRED.'.

**529**

Details: locomotive '529 R' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $137330
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 01.07.1969
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 15.01.94
**BSG Code:** LSAF

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|---|---|---|---|
| Return to Service Date: | 01.04.1992 | | |
| B Service Mileage: | 256928 KM | B Service Date: | 03.08.1988 |
| C Service Mileage: | 258008 KM | C Service Date: | 17.01.1989 |
| US Service Mileage: | 258008 KM | A Service Date: | 01.04.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**10.12.1989** Service defect: 'UN - BROKEN PIPE - BROKEN OIL PIPE - ENG OIL PIPE REPAIRED. - ENG OIL CHANGED.'.
**01.04.1992** Service defect: 'UN - THIS LOCO STORED.'.

**530**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**531**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**532**

Details: locomotive '532 X' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $137330
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 01.07.1969
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**BSG Code:** LSAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 23.10.1996 | | |
| Last Lift: | 23.01.1985 | | |
| SW Service Mileage: | 294412 KM | SW Service Date: | 14.09.1992 |
| B Service Mileage: | 368157 KM | B Service Date: | 09.02.1996 |
| C Service Mileage: | 361523 KM | C Service Date: | 13.07.1995 |
| D Service Mileage: | 342978 KM | D Service Date: | 24.08.1994 |
| WT Service Mileage: | 372103 KM | WT Service Date: | 23.10.1996 |
| US Service Mileage: | 368076 KM | A Service Date: | 10.01.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**13.03.1990** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED.'.
**24.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE REPLACED.'.
**24.07.1990** Service defect: 'UN - FUEL SYSTEM - FUEL RELIEF VALVE REPLACED.'.
**07.08.1990** Service defect: 'UN - RADIO REPAIR - RADIO INSTALLED.'.
**24.09.1990** Service defect: 'UN - FUEL SYSTEM PUMP - NO 3 FUEL PUMP REPLACED A/C LEAKING.'.
**03.02.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CAMS ADJUSTED.'.
**08.05.1991** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH BUSHES REPLACED.'.

**22.05.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - CONTACTOR REPLACED,A/C M2 CONTACTOR BURNT OUT.'.
**18.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHANGED.'.
**18.07.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED.'.
**08.08.1991** Service defect: 'UN - BATTERY MAINTENANCE - 2 BATTERIES REPLACED.'.
**08.08.1991** Service defect: 'UN - GENERAL - SEAT CUSHIONS REPLACED.'.
**08.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - FUEL 'SLUDGE' TANK DRAIN COCK REPLACED,EX 525.'.
**15.10.1992** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMP DRIVE SHAFT REPLACED. SPLINES GREASED & COVERS REFITTED'.
**15.10.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - DIST VALVE & LHS IND BRAKE VALVE + 2 70LB FEED VALVES REPLACED.'.
**14.01.1993** Service defect: 'UN - FUEL SYSTEM - FUEL TANK BOLTS REPLACED AND TIGHTENED.'.
**14.01.1993** Service defect: 'UN - GENERAL - 3 MIRRORS AND CLIPS ON SUNVISORS REPLACED.'.
**15.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE FAULT -(BCP TOO HIGH BOTH PEDESTALS) 2 FEED VALVES(45LBS) IND RELEASE + DIST VALVE ALL REPLACED.'.
**24.06.1993** Service defect: 'UN - GENERAL - D/SEAT AIR ADJUSTER REPAIRED. DOOR SEAL REPLACED. WINDOW LOCK BOLT REPLACED.'.
**24.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - NON SLIP SURFACE APPLIED TO STEPS.'.
**23.08.1993** Service defect: 'UN - GENERAL - LOCO POWER AND REVS NOT RESPONDING TO THROTTLE MOVEMENT. THROTTLE LINKAGES TIGHTENED.'.
**23.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO SHOWS 50KPH WHEN ACTUAL SPEED IS 45KPM. REPORTED FAULT AS BEEING WHEEL SIZE.'.
**02.09.1993** Service defect: 'C - GENERAL - W/WIPER CONTROL VALVE REPAIRED.'.
**25.09.1993** Service defect: 'UN - ENGINE GOVERNOR - NEW GOVERNOR FITTED & ADJUSTED, EX 519.'.
**10.11.1993** Service defect: 'UN - COOLING SYSTEM - WATER FILLER COCK REPLACED.'.
**10.11.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - LEFT SIDE RADIATOR REPLACED, A/C LEAKS.'.
**03.12.1993** Service defect: 'B - FUEL SYSTEM PUMP - NO 1 AND NO 3 FUEL PUMPS REPAIRED, A/C LEAKING.'.
**03.12.1993** Service defect: 'B - GENERAL - MIRROR REPLACED.'.
**25.02.1994** Service defect: 'C - MAIN GENERATOR - MAIN GENERATOR VEED AND BRUSHED OUT.'.
**21.03.1994** Service defect: 'UN - ENGINE - FAN CLUTCH SHOE REPAIRED. BUSHES CHANGED. NEW BOLTS AND SHORT STRAPS REPLACED.'.
**25.05.1994** Service defect: 'B - RADIATOR/PRESSURISING FAN - RADIATOR FAN CLUTCH BUSHES REWELDED.'.

**533**

Details: locomotive '533 R' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $137330
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 01.07.1969
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** W/O 20.09.91
**BSG Code:** LSAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 30.04.1993 | | |
| SW Service Mileage: | 288796 KM | SW Service Date: | 30.04.1993 |
| B Service Mileage: | 283514 KM | B Service Date: | 15.01.1990 |
| C Service Mileage: | 287958 KM | C Service Date: | 01.06.1990 |
| D Service Mileage: | 277826 KM | D Service Date: | 01.08.1989 |
| US Service Mileage: | 288796 KM | A Service Date: | 09.10.1990 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**24.07.1989** Service defect: 'SW - CONTACTOR MISCELLANEOUS - VLR & VRR CONTACT PIVOTS REPLACED.'.
**24.07.1989** Service defect: 'SW - GENERAL - WINDOWS RESEALED.'.
**06.08.1989** Service defect: 'UN - GENERAL ACCIDENT - L4 PULL ROD REPAIRED A/C DERAILMENT DAMAGE.'.
**02.10.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - 2 NEW SHOES & BRUSHES FITTED TO FAN CLUTCH.'.
**02.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 'A'END RHS SAND TRAP FITTED.'.
**03.10.1989** Service defect: 'SW - MAIN GENERATOR BRUSHES - 16 MAIN GEN BRUSHES CHANGED A/C SHORT.'.
**23.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE BOOKED FOR OVERCHARGING.CHECKED OK IN DEPOT.'.
**23.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PULL RODS CHANGED A/C ADJUSTMENT.'.
**21.03.1990** Service defect: 'UN - ENGINE - THROTTLE AIR VALVE REPLACED.'.
**01.06.1990** Service defect: 'C - LONG DRIVE SHAFT IN POOR CONDITION.'.
**04.06.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - LOCO RETURNED TO TRAFFIC WITH WHEELS BELOW 25MM.ON AUTHORITY OF LOCO MANAGER.'.
**04.06.1990** Service defect: 'UN - L 3 WHEEL TO MONITOR,UNDERSIZED.'.
**27.06.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C INCREASING METALS.'.
**30.04.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT & FINAL DRIVE SHAFT REPLACED. LOCO SENT TO M.K.'.

**534**

Details: locomotive '534 D' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 11.7m
**Tare Weight:** 56.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $116720
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-2
**Date Built:** 01.06.1964
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 410kw
**Remarks:** EX 500
**BSG Code:** LSAF

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 28.05.1994 | | |
| Last Lift: | 09.08.1984 | | |
| SW Service Mileage: | 386350 KM | SW Service Date: | 06.11.1992 |
| B Service Mileage: | 411377 KM | B Service Date: | 29.10.1993 |
| C Service Mileage: | 653804 KM | C Service Date: | 19.08.1993 |
| D Service Mileage: | 417228 KM | D Service Date: | 18.01.1994 |
| US Service Mileage: | 415569 KM | A Service Date: | 20.12.1993 |

**14.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EXCESSIVE TRAVELS.'.
**14.09.1989** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - 2 CONTACTS IN TORQUE REGULATOR CHANGED A/C WELDED.'.
**06.10.1989** Service defect: 'UN - GENERAL - CONTROL AIR VALVE REPLACED.'.
**19.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LEFT SIDE FEED VALVE CHANGED A/C OVERCHARGING.'.
**10.01.1990** Service defect: 'UN - WHEELS INSPECTED & TO BE MONITORED.'.
**15.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - POWER CONTACTOR REPLACED.'.
**28.02.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR ROUGH RIDING,CHECKED.'.
**28.02.1990** Service defect: 'UN - 1,2&4 WHEELS OVAL.'.
**09.04.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.
**09.04.1990** Service defect: 'UN - TRACTION MOTOR - ALL TM'S CHANGED.(IN 5394,5377,5411,4198).'.
**26.04.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN BUSHES REPLACED.'.
**09.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MAGNET VALVE REPLACED.'.
**31.05.1990** Service defect: 'UN - FUEL SYSTEM LINES - NO3 HIGH PRESSURE FUEL LINE REPLACED A/C LEAKING.'.
**31.05.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**10.07.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH DRUM,SHAFT & DRIVE REPLACED.'.
**30.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BLOWER BELT REPLACED. FAN CLUTCH BUSHES REPLACED.'.
**26.10.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - SEVERAL PIPES & RADIATORS REPLACED.'.
**26.10.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN DRIVE SHAFT REPLACED.'.
**21.02.1991** Service defect: 'UN - OTHER BODY REPAIRS - SEAT REPAIRED.'.
**20.03.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CLUTCH REPLACED.'.
**06.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - LAY RUBS REPLACED ON COUPLING BETWEEN FAN GEARBOX & COMPRESSOR,COMPRESSOR SHAFT RECONNECTED,A/C NOT TURNING.'.
**17.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT REPLACED,A/C BROKEN.'.
**13.11.1991** Service defect: 'UN - BROKEN PIPE - BROKEN WATER PIPE REPAIRED & LEAKS FIXED.'.
**13.11.1991** Service defect: 'UN - CONTACTOR EP VALVES - MAGNET VALVE REPLACED.'.
**10.04.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CIRCUIT MOD BOARD INSTALLED.'.
**10.04.1992** Service defect: 'UN - GENERAL - MIRROR REPAIRED,SEAT REPAIRED.'.
**10.04.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL PUMP AUX DRIVE BEARING & OIL SEAL REPLACED.'.
**10.04.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN DRIVE SHAFTS REPAIRED.'.
**28.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAPACITOR REMOVED FROM CAM SWITCH ON C.GOLDSMITHS REQUEST.'.
**07.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PRINTED CIRCUIT BOARD FITTED.MODIFICATION.'.
**07.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FAN CLUTCH SHEARED BOLTS REPAIRED - REPAIRED RESILIENT RUBBERS. FRONT ENGINE MOUNT LOOSE AND CRACKED BOLTS'.
**21.08.1992** Service defect: 'UN - GENERAL LOSS OF POWER - 110 VOLT FEED FROM ER ON SCC CONTACTOR TO P ON CR CONTACTORAND RELABLED WIRE ACCORDINGLY. A/C LOCO SURGING.'.
**08.09.1992** Service defect: 'UN - GENERAL - LEFT HAND SIDE SEAT CUSHION REPLACED.'.
**08.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COMPRESSOR SHORT COUPLING REWORKED AND FITTED. COMPRESSOR LAY RUBBERS REPLACED.'.
**28.09.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - POWER PROBLEMS - INSULATING BLOCK ON M1 CONTACTOR REPLACED, A/C SHORTING BETWEEN EZ & 61D. LOCO POWERED UP OK.'.
**02.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE (SHORT) REPLACED WITH (2) LAY RUB CONNECTIONS.'.
**02.11.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN DRIVE REPLACED, A/C SHOES DESTROYED.'.
**14.12.1992** Service defect: 'UN - FUEL SYSTEM LINES - NO 1

LOW PRESSURE FUEL LINE REPLACED.'.
**14.12.1992** Service defect: 'UN - GENERAL - D/S WIPER HANDLE REPLACED.'.
**14.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - DRIVE SHAFT REPLACED.'.
**14.12.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CLUTCH SHAFT REPLACED.'.
**25.02.1993** Service defect: 'B - COOLING SYSTEM - COOLANT CHANGED.'.
**25.02.1993** Service defect: 'B - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.
**25.02.1993** Service defect: 'B - MAIN GENERATOR BRUSHES - ALL MAIN GENERATOR BRUSHES CHANGED.'.
**25.02.1993** Service defect: 'B - TRACTION MOTOR - NO.2 TOP T/M COVER REPLACED A/C MISSING.'.
**25.02.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED IN NOS 1 AND 2 MOTORS A/C SHATTERED.'.
**17.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE CHANGED & LOCO TESTED OK.'.
**30.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL RHS BRAKE CYLINDERS REPLACED & PIPED UP. TESTED OK.'.
**03.05.1993** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP RE-TIMED.'.
**03.05.1993** Service defect: 'UN - GENERAL - MIRROR REPLACED.'.
**19.08.1993** Service defect: 'C - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT RESISTORS REMOVED AND WIRING REPAIRED. 30V H/LIGHT INSTALLED. 19V LOW BEAM. 30V HIGH BEAM.'.
**19.08.1993** Service defect: 'C - ENGINE - GASKETS ON AIR INLET ELBOW REPLACED.'.
**19.08.1993** Service defect: 'C - LUBRICATING SYSTEM - OIOL PRESSURE 63PSI.'.
**19.08.1993** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - SHAFT BETWEEN ENGINE AND FAN GEARBOX REPLACED A/C BADLY WORNAND NOISY UNDER LOAD.'.
**19.08.1993** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - OIL LEAK REPAIRED ON COMP. OIL PRESSURE INDICATOR.'.
**19.08.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - R1 BRAKE CYLINDER CHANGED A/C LEAKING.'.
**29.10.1993** Service defect: 'B - FUEL SYSTEM PUMP - NO 2 FUEL PUMP REPLACED, A/C U/S.'.
**16.12.1993** Service defect: 'UN - ENGINE - ADJUSTING SCREW ON NO.4 CAM FOLLOWER REPLACED A/C FOUND BROKEN.'.
**16.12.1993** Service defect: 'UN - FUEL SYSTEM PUMP - ALL FUEL PUMPS TIMED.'.
**20.12.1993** Service defect: 'UN - GENERAL ACCIDENT - ACCCIDENT REPAIRS FINISHED.'.
**18.01.1994** Service defect: 'D - AUXILLARY MACHINES - AUXILARY GEN. COMMUTATOR WORN, TO BE DRESSED AT A LATER DATE'.
**18.01.1994** Service defect: 'D - AUX. GENERATOR COMMUTATOR WORN, TO MONITOR.18/1/94'.

**534**

**24.07.1986** Alteration complete 'RENUMBER INDIVIDUAL LOCOMOTIVES AND RAIL CARS AS LISTED. 500 TO 534, 600 TO 607, 700 TO 706, 800 TO 810, 830 TO 875, 930 TO 967 250 TO 261, 280 TO 283 & 100 TO 107 (RS4140)'.
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**601**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**21.07.1989** Service defect: 'UN - DYNAMIC BRAKE - INSULATOR IN BRAKE TANK REPLACED.'.
**25.07.1989** Service defect: 'UN - LOCO SENT TO WTM DCK.26/7 RN.'.
**26.07.1989** Service defect: 'WT - BRAKE ADJUST MILE END'.
**25.08.1989** Service defect: 'UN - TRACTION MOTOR - NO2 TM CHANGED A/C LOW MEG READING.(IN EN70624 OUT 290716). NO5 TM CHANGED A/C LOW MEG READING.(IN 290668 OUT 290687).'.
**28.08.1989** Service defect: 'UN - DYNAMIC BRAKE - 6 D/BRAKE GRIDS REPLACED.'.
**28.08.1989** Service defect: 'UN - TRIAL RUN TO TEST B/GRIDS.RN28/8'.
**25.09.1989** Service defect: 'UN - TRACTION MOTOR - NO2 TM CHANGED A/C FIELDS BREAKING DOWN TO EARTH.24/9. (IN 280917 OUT EN70624).'.
**06.10.1989** Service defect: 'UN - TRACTION MOTOR - NO2 TM CHANGED A/C PINION.(IN 690675 OUT 280917).'.
**24.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L3,L6,R2,R3 WICKS REPLACED A/C DIRTY.'.
**24.10.1989** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - NO1 TM 'F'LUG REPLACED.'.
**11.11.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - SLIGHT FLASH ON NO 2 TM CLEANED.P-500K.'.
**15.12.1989** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1 WICK RENEWED.'.
**21.12.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE SET UP & TESTED OK.'.
**05.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - MAGNET VALVE REPLACED.A/C FAULTY.'.
**12.01.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION TRACK TESTED OK.'.
**12.01.1990** Service defect: 'UN - P2 & P21 EP VALVES LEAK,NIL STOCK.'.
**22.01.1990** Service defect: 'UN - COOLING SYSTEM - L5 GASKET WATER ELBOW TO BLOCK REPLACED.'.
**07.02.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - ELECTRICAL CABINET WIRING CHECKED OK.'.
**15.02.1990** Service defect: 'UN - BOGIE - 'B'BOGIE CHANGED.'.
**15.02.1990** Service defect: 'UN - TRACTION MOTOR - 'B'END TRACTION MOTORS CHANGED.(IN 290714,290720,280905).'.
**17.02.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END AUTO COUPLER CHANGED.'.

**24.02.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2,L3 WICKS & OILS CHANGED.'.
**24.02.1990** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO ROTARY CHANGED A/C LEAKING.'.
**04.03.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN COMM BURNT,CLEANED UP WITH RUBBER STONE.'.
**15.03.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - 51XX WIRE TO EARTH,REPAIRED.C-400K.'.
**15.03.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN VEED OUT,REBRUSHED & CURED.'.
**25.05.1990** Service defect: 'UN - R 1 & R 5 WHEELS BELOW 25MM RIM DIAM,OK TO RUN ,TO'.
**25.05.1990** Service defect: 'UN - MONITOR FOR POSS CRACKS.'.
**31.05.1990** Service defect: 'UN - GENERAL - ALL SLIDING WINDOW SEALS,CUBICAL DOOR SEALS REPLACED.CAB LIGHT COVER REPLACED.SUN VISOR FITTED.CAB FLOOR REPAIRED.'.
**04.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND NOT WORKING.2 MAGNET VALVES 'B'END CHANGED,SAND CLEAREDFROM 'A'END MAGNET VALVE.'.
**22.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED A/C DAMAGED.'.
**23.06.1990** Service defect: 'A - AIR BRAKE SERVICE (A) TO COMPLETE.'.
**03.09.1990** Service defect: 'UN - D/BRAKE GRID MODS.WINDSCREEN WIPER SPRAY TO FIT.'.
**03.09.1990** Service defect: 'UN - WORKSHOP INSTRUCTIONS 38,107,113,136,140,181,187,'.
**03.09.1990** Service defect: 'UN - 189,192,193,196,200,201,215,217,241,246,272.3/9*'.
**11.10.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.
**11.10.1990** Service defect: 'UN - TRACTION MOTOR - ALL TM'S CHANGED (IN 280907,290679,280922,280915,280895, 280911).'.
**28.11.1990** Service defect: 'TS - COOLING SYSTEM - HEADER TANK SIGHT GLASS REPLACED A/C BROKEN.'.
**28.11.1990** Service defect: 'TS - MECH. EQUIPMENT RADIATOR FAN GEARBOX - EDDY CURRENT CLUTCH REPLACED.'.
**07.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO2 WHEELS CHANGED A/C SHARP FLANGES'.
**07.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO2 WICKS AND OIL CHANGED'.
**07.02.1991** Service defect: 'UN - NO2 WICK INSPECTION REQUIRED'.
**13.02.1991** Service defect: 'UN - L4 H.P. FUEL LINE TO REPLACE'.
**19.02.1991** Service defect: 'UN - WHEELSLIP - BUSBARS RETAPED A/C SHORTING OUT,WHEELSLIP CHECKED OK.'.
**26.02.1991** Service defect: 'UN - GENERAL LOSS OF POWER - COULD NOT FAULT ON TRIAL RUN,A/C LOSS OF POWER.'.
**26.02.1991** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.
**08.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPAIRED,A/C BROKEN.'.
**26.04.1991** Service defect: 'A - WHEELSLIP - WHEELSLIP AT 70KM/H - FINGER CONTACT REPLACED ON P32 A/C BROKEN. CR3 PANEL REPLACED A/C FAULTY RECTIFIER.'.
**07.05.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL - NO6 TRAIN LINE WIRE FROM MAIN CONTROL CUBICLE TERMINAL BOARD TO 'B'END JUMPER CABLE RECEPTICLE'.
**24.05.1991** Service defect: 'UN - LUBRICATING SYSTEM - BANK OF FIVE TIGHTENED UP'.
**24.05.1991** Service defect: 'UN - RADIO TO REPAIR'.
**04.07.1991** Service defect: 'TS - RETURNED TO M.P.C FOR REPAIR.(O/SPEED TRIPPING)'.
**15.01.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE SET UP.'.
**15.01.1992** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 6 DYN BRAKE GRIDS REPLACED,A/C BURNT.'.
**05.02.1992** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.
**05.02.1992** Service defect: 'TS - EXHAUST - EXHAUST LEAK REPAIRED.'.
**05.02.1992** Service defect: 'TS - FUEL SYSTEM LINES - FUEL LINE REPAIRED,A/C BROKEN.'.
**21.02.1992** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK IN RADIATOR ROOM REPAIRED.'.
**21.02.1992** Service defect: 'TS - EXHAUST - EXHAUST JOINTS TIGHTENED ,GASKET REPLACED OK.'.
**21.02.1992** Service defect: 'TS - FUEL SYSTEM PUMP - R6 INJECTOR PUMP CHANGED A/C SEIZED.OK.'.
**21.02.1992** Service defect: 'TS - GENERAL - CONCERTINA NO3 CHANGED A/C SPLIT.'.
**21.02.1992** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - B'END PACKAGE CHECKED OK.'.
**24.04.1992** Service defect: 'UN - GENERAL - WIPER MOTOR & BLADE REPAIRS COMPLETED.'.
**14.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTS CHARGED UP OK.'.
**14.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 'B'END L/H SAND PIPE REPLACED.'.
**14.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**14.05.1992** Service defect: 'UN - 'B'END COUPLER TO MONITOR.14/5.'.
**15.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLER INSPECTED AGAIN,STILL OK FOR TRAFFIC.'.
**24.06.1992** Service defect: 'UN - BATTERY MAINTENANCE - ALL BATTERIES CHANGED.'.
**27.06.1992** Service defect: 'UN - COOLING SYSTEM - WATER LEAK FROM FLANGE JOINT IN FAN COMP. REPAIRED.'.
**16.07.1992** Service defect: 'A - BOGIE - L3 SUSPENSION BEARING OIL CHANGED A/C DIRTY.'.
**16.07.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2 WICK REPLACED A/C DIRTY.'.
**16.07.1992** Service defect: 'A - COOLING SYSTEM - WATER DRESSER RUBBER REPLACED.'.
**16.07.1992** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - 4 WIRES ON TERMINAL BOARD AT REAR RECONNECTED A/C HANGING. AGA1 AND AGA2 TERMINALS TIGHTENED A/C FINGER TIGHT.'.
**16.07.1992** Service defect: 'A - ELECTRICAL

MISCELLANEOUS - DRIVERS SIDE HEATER ELEMENT REPLACED. COMPRESSOR UNLOADER VALVE REPAIRED AND ADJUSTED.'.

**16.07.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - DRT1 SHORTED IN ECP. REPAIRED OK.'.

**16.07.1992** Service defect: 'A - ENGINE - RESIDUE SUMP UNBLOCKED AND DRAINED.'.

**16.07.1992** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - ALL TURBO INTAKE BOLTS TIGHTENED.'.

**16.07.1992** Service defect: 'A - FUEL SYSTEM - ALL 'BANJOE' BOLTS TIGHTENED A/C FUEL LEAKS.'.

**16.07.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - BOTH REAR SANDING VALVES REPLACED.'.

**16.07.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE REPLACED A/C OVERCHARGING.'.

**16.07.1992** Service defect: 'A - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW REPLACED.'.

**21.07.1992** Service defect: 'TS - CONTACTOR EP VALVES - P1,P2 & P21 EP VALVES REPLACED.'.

**21.07.1992** Service defect: 'TS - DYNAMIC BRAKE - D/BRAKE INTERLOCK MAGNET VALVE REPLACED.-BRAKE POT REPLACED.'.

**12.08.1992** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED. BOGIES LUBED.'.

**13.08.1992** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICKS INSPECTED OK.NEW BOGIES.'.

**13.08.1992** Service defect: 'SW - TRACTION MOTOR - TRACTION MOTORS MEGGERED VERY LOW. OK FOR A LIGHT TRIAL RUN.'.

**19.08.1992** Service defect: 'TS - MAIN GENERATOR - A1 AND GA1 CABLES RENEWED IN CABINET A/C HOT JOINT.'.

**02.09.1992** Service defect: 'TS - SENT TO PT. AUGUSTA FOR REPAIRS.'.

**23.10.1992** Service defect: 'B - CONTACTOR EP VALVES - 3 EP VALVES REPLACED, A/C SLUGGISH.'.

**23.10.1992** Service defect: 'B - DYNAMIC BRAKE - DYN/BRAKE RHEOSTAT ADJUSTED.'.

**23.10.1992** Service defect: 'B - MAIN GENERATOR - 9 MAIN/GEN BRUSHES CHANGED.'.

**23.10.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 T/M BRUSHES CHANGED, A/C SHORT.'.

**11.11.1992** Service defect: 'TS - ENGINE WATER LEAK - R5 WATER GASKET REPLACED ON PIPE TO CYL/HEAD, A/C WATER LEAK'.

**15.12.1992** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - L.T.EARTH MEGGERED 30KOHMS TO EARTH, WHEN BROKEN DOWN MEGGERED 100KOHMS. TDR CHANGED, ORS CHECKED OK, A/C GR'S.'.

**17.12.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - POWER MEGGERS 10KOHMS. NO GR'S ON START. LOCO POWERS UP IN FWD & REVERSE. DYN ENGAGES & REVS INCREASE. ALL LIGHTS OK.'.

**17.12.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - REPLACED COVER ON AUX GEN. REPLACED LAMPHOLDER ABOVE COMP & RECONNECTED WIRES TO TERMINAL BOARD. CONTROL MEGGERS 20KOHMS'.

**16.02.1993** Service defect: 'A - TO PT AUG FOR ENGINE REPAIRS.16/2.'.

**25.03.1993** Service defect: 'UN - GENERAL - SENT TO PORT AUGUSTA.'.

**03.05.1993** Service defect: 'SW - NO2 W/SET A/C FLATS,MGEN TO REPLACE,COMPRESSOR TO'.

**03.05.1993** Service defect: 'SW - REPLACE,ENGINE BLOCK CRACKED AROUND CAM BRGS,GOV.@'.

**03.05.1993** Service defect: 'SW - GOV. DRIVE TO REPLACE,BOGIES TO PROFILE A/C FLATS.'.

**602**

Details: locomotive '602 Y' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.6m
**Tare Weight:** 112.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $250450
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-3
**Date Built:** 23.12.1969
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**BSG Code:** LSAP

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 29.04.1997 | | |
| Last Lift: | 01.08.1988 | | |
| SW Service Mileage: | 503424 KM | SW Service Date: | 03.09.1996 |
| A Service Mileage: | 509536 KM | A Service Date: | 04.12.1996 |
| B Service Mileage: | 498191 KM | B Service Date: | 05.06.1996 |
| C Service Mileage: | 515217 KM | C Service Date: | 27.03.1997 |
| D Service Mileage: | 472533 KM | D Service Date: | 28.06.1995 |
| E Service Mileage: | 414360 KM | A Service Date: | 28.01.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 01.08.1988 |
| WT Service Mileage: | 416692 KM | WT Service Date: | 12.02.1993 |
| US Service Mileage: | 517331 KM | A Service Date: | 29.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**10.07.1989** Service defect: 'UN - RETURNED TO M.E.D.D. FOR REPAIRS NOSE DOOR LOCK &'.

**10.07.1989** Service defect: 'UN - HAND/BRAKE REPAIRS.'.

**14.07.1989** Service defect: 'SW - COOLING SYSTEM - RADIATORS FLUSHED A/C OIL IN WATER.'.

**14.07.1989** Service defect: 'SW - GENERAL - NOSE DOOR LOCK REPLACED.'.

**14.07.1989** Service defect: 'SW - MECHANICAL EQUIPMENT - HAND BRAKE RECONNECTED.'.

**29.07.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - LUG REPLACED DRIVERS HEATER A/C NOT WORKING.'.

**29.07.1989** Service defect: 'UN - FUEL SYSTEM LINES - R1 HIGH PRESSURE FUEL LINE REPLACED.'.

**11.08.1989** Service defect: 'TS - COOLING SYSTEM OVERHEATING - GASKET TO HEAT EXCHANGER REPLACED.VICTAULIC AT REAR OF HEAT EXCHANGER REPLACED A/C LEAKING.'.

**22.08.1989** Service defect: 'SW - GENERAL - TOILET DOOR RESEALED.'.

**04.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L5 WICK & OIL CHANGED.'.
**27.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L5,L6,R4 WICKS REPLACED A/C DIRTY.'.
**26.01.1990** Service defect: 'SW - GENERAL - AIR CONDITIONING UNIT FITTED COVERS MODIFIED AND FITTED'.
**26.01.1990** Service defect: 'SW - MECHANICAL EQUIPMENT - DRIVE SHAFT FROM GEN END TRACTION MOTOR BLOWER FITTED'.
**26.01.1990** Service defect: 'SW - SUN ROOF TO FIT 26/1 OA'.
**02.02.1990** Service defect: 'UN - GENERAL - SEAT AIR PIPING REPLACED.'.
**14.02.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 6 WHEEL SET CHANGED.'.
**14.02.1990** Service defect: 'UN - TRACTION MOTOR - NO 6 TM CHANGED(280913 IN 290689 OUT).'.
**13.03.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - R3 CYL HEAD STUD REPLACED.'.
**30.03.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - L4 HEAD REPLACED A/C WATER LEAK.'.
**06.04.1990** Service defect: 'A - AUXILLARY MACHINES - AUX GEN CHANGED A/C CONDITION OF COMM.'.
**19.04.1990** Service defect: 'UN - ENGINE - SHORT EXHAUST CONNECTOR REPLACED,DRESSERS CHANGED ON OIL PIPE FROM BANK OF 5.VICTAULIC CHANGED ON PIPE FROM MOTOR TO'.
**28.04.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO6 TM BRUSHES CHANGED A/C SHATTERED & TAILS.P-500K.'.
**17.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CRACK TESTED,OK.'.
**28.05.1990** Service defect: 'TS - COOLING SYSTEM - RHS RADIATOR VICTAULIC REPLACED.'.
**28.05.1990** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN V RING,INSULATORS,COMM CLEANED A/C FLASH OVER.'.
**28.05.1990** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 3 TM FLASHED A/C SCREW FELL OUT OUT OF BRUSH HOLDER, REPAIRED.ALL BRUSHES REPLACED IN NO6 TM A/C FLATS.P-300K.'.
**31.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKE ADJUSTING RODS REPLACED.'.
**25.06.1990** Service defect: 'UN - HEAT EXCHANGER TO REPLACE/WHEELS DOWN TO GAUGE.'.
**28.07.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED.(IN 16 & 15).'.
**28.07.1990** Service defect: 'UN - TRACTION MOTOR - TM'S CHANGED.(IN 280899,290670,501845,280912,290710,280920).'.
**05.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - COMPLETED,CHECKED OK.'.
**05.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO2 WICK CHECKED OK.'.
**23.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - SPEEDO DRIVE FITTED & TESTED OK.'.
**24.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED A/C NOT WORKING.'.
**24.08.1990** Service defect: 'UN - RADIATOR CORE LEAKING.24/8*'.
**31.08.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LHS RADIATOR REPLACED A/C LEAKING.'.
**27.09.1990** Service defect: 'TS - COOLING SYSTEM - HEAT EXCHANGER REPLACED.'.
**01.10.1990** Service defect: 'TS - MAIN GENERATOR - MAIN GEN CHECKED OK.A/C GR'S.'.
**01.10.1990** Service defect: 'TS - TRACTION MOTOR - TM'S CHECKED OK,A/C GR'S.CABLES TIED UP N0 2 TM. P=400K.'.
**11.10.1990** Service defect: 'TS - TRACTION MOTOR - NO3 TM CHANGED A/C EARTH ON FIELD (IN 280910 OUT 501845).'.
**22.10.1990** Service defect: 'TS - COOLING SYSTEM - WATER PIPE TO TURBO REPAIRED A/C LEAKING.'.
**30.10.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - R6 CYLINDER HEAD CHANGED.'.
**07.11.1990** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**07.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING,INDEPENDENT RELEASE & IND BRAKE VALVE REPLACED.'.
**07.11.1990** Service defect: 'UN - VALVE BRIDGE/LASH ADJUSTER - L6 EXHAUST VALVE BRIDGE RETURN SPRING REPLACED.'.
**12.11.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LOADMETER REPLACED.'.
**13.11.1990** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - AUX GEN CIRCUIT BREAKER CHANGED.'.
**13.11.1990** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED.'.
**13.11.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - ENGINE ROOM LIGHT FITTING REMOVED A/C BURNT.'.
**06.02.1991** Service defect: 'UN - COOLING SYSTEM - WATER LEAK CHECKED OK.'.
**06.02.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - R5 @ 6 CHANGED A/C CRACKED.'.
**06.02.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO MOUNTING BOLTS REPLACED.'.
**06.02.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK CHECKED AT FLANGE OK.'.
**06.02.1991** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS DOOR WINDOW REPLACED.'.
**27.02.1991** Service defect: 'A - AUXILLARY MACHINES - CRANKCASE EXHAUSTER MOTOR REPLACED A/C BURNT OUT.'.
**09.07.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - CHANGED LUG ON GEN FIELD CONTACTOR, A/C HOT & MELTING CABLE.'.
**09.07.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REPLACED 4 BRUSHES IN THE EXCITER.'.
**09.07.1991** Service defect: 'B - MAIN GENERATOR - CHANGED 18 BRUSHES ON MAIN GEN.'.
**09.07.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET REPLACED, A/C SUSPENSION BEARING FAILURE.'.
**09.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - FITTED GEN FIELD SWITCH & LOADMETER.CANON PLUG FITTED TO SPEEDO,POWER POINT REPLACED.'.

**09.07.1991** Service defect: 'TS - FUEL SYSTEM LINES - R1 & R2 SNUBBER VALVE FOR HIGH PRESSURE FUEL LINE REPLACED.'.
**09.07.1991** Service defect: 'TS - GENERAL - 1 WINDSCREEN WIPER D/S REPLACED,NOSE DOOR REPLACED.'.
**09.07.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - HAND BRAKE REPAIRED.'.
**09.07.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - 1 13LB SAFETY VALVE REPLACED,75LB SUPPLY VALVE REPLACED.'.
**09.07.1991** Service defect: 'TS - TRACTION MOTOR - NO5 T/MOTOR REPLACED,IN-280902.OUT-290710.'.
**09.07.1991** Service defect: 'B - CHECK W/SLIP RELAY CUT IN & CUT OUT VOLTAGES.9/7.'.
**11.07.1991** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - ORIGINAL LOAD METER REPLACED.'.
**11.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - D/SIDE,SIDE WINDOW REPLACED.'.
**15.07.1991** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 2 GRIDS REPLACED, A/C MELTING.REST CHECKED OK.'.
**23.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - FUEL TANK WELDED & FLUSHED, A/C 2 CRACKS.'.
**14.08.1991** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYNAMIC GRIDS CHANGED A/C BURNT OUT.'.
**14.08.1991** Service defect: 'TS - DYNAMIC BRAKE REGULATOR - 'EBC' COIL REPLACED @ WIRING MODIFICATION CARRIED OUT.'.
**14.08.1991** Service defect: 'TS - DYNAMIC BRAKE SETTING - DYNAMIC BRAKE SET UP,TRACK TESTED OKAY-280 VOLTS MAX. ACROSSFAN.'.
**14.08.1991** Service defect: 'TS - ELECT. MISC. - GAUGES & INSTRUMENTS - LOADMETER CHANGED.'.
**14.08.1991** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET CASING BOLTS TIGHTENED.'.
**14.08.1991** Service defect: 'TS - EXHAUST - R4 EXHAUST GASKET REPLACED,ALL EXHAUST BOLTS TIGHTENED.'.
**14.08.1991** Service defect: 'TS - FAN COMPARTMENT @ RADIATORS TO STEAM CLEAN.'.
**21.08.1991** Service defect: 'UN - TRACTION MOTOR - 4 NEW VEE BELTS FITTED TO T/MOTOR BLOWER 'B' END, A/C BROKEN'.
**02.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR FAULT.HIGH PRESSURE VAVLE REPLACED'.
**08.10.1991** Service defect: 'A - ELECTRICAL MISC. AC/DC RELAYS - WHEELSLIP RELAY TESTED-CUT IN 25:7VOLTS. CUT OUT 16 VOLTS.'.
**08.10.1991** Service defect: 'A - EXHAUST - R2 &R6 EXHAUST GASKETS REPLACED.'.
**08.10.1991** Service defect: 'A - COMPRESSOR UNLOADER TO REPAIR. A/C LEAKING.'.
**18.10.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 4 WHEELSET CHANGED,A/C BURNT AXLE BOXES.'.
**18.10.1991** Service defect: 'UN - TRACTION MOTOR - NO 4 T/MOTOR CHANGED,A/C BURNT AXLE BOXES.IN-290710,OUT- 280912.'.
**22.10.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.4 WICK CHECKED OK.'.
**06.12.1991** Service defect: 'UN - CARBODY FILTERS - CARBODY FILTERS CLEANED.'.
**06.12.1991** Service defect: 'UN - ENGINE - FAST COUPLING INSPECTED,PASSED OK.RE-ASSEMBLED WITH NEW GASKET,GREASED & SILASTIC USED TO SEAL UP ENDS.'.
**05.02.1992** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN DRIVE GEAR BOX CHANGED,TESTED OK.'.
**05.02.1992** Service defect: 'C - WHEELSLIP - WSR1- CUT IN 28.5V - OUT 16.5. WSR2 - CUT IN 31.5 OUT 21.0. WSR3 - CUT IN 27.1V - OUT 14.0V.'.
**12.02.1992** Service defect: 'UN - LUBRICATING SYSTEM - COPPER PIPE REPLACED ACCOUNT BROKEN.STEEL PIPE ON HEAT EXCHANGER REWELDED.'.
**01.04.1992** Service defect: 'A - ELECTRICAL MISC. AC/DC RELAYS - BCP REPLACED.'.
**01.04.1992** Service defect: 'A - ENGINE WATER LEAK - LHS. WATER FILLER LEAKING AND NON RETURN VALVE NOT WORKING. REPAIRED.'.
**01.04.1992** Service defect: 'UN - COOLING SYSTEM - ENGINE COOLANT CHANGED.'.
**01.04.1992** Service defect: 'UN - ENGINE WATER LEAK - TURBO VICTAULIC REPLACED.WATER.'.
**01.04.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - MARMON COUPLING REPLACEDIN FAN COMPARTMENT.A/C OLD ONE WRONG TYPE.'.
**10.04.1992** Service defect: 'TS - AIR CONDITIONING - A/CON RESET & TESTED OK.'.
**10.04.1992** Service defect: 'TS - LUBRICATING SYSTEM - OIL LEAK IN ENGINE ROOM REPAIRED.'.
**21.04.1992** Service defect: 'UN - ENGINE - FAST COUPLING CLEANED OUT,A/C THROWING GREASE OUT.TOPPED UP.'.
**21.04.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK UNDER COMPRESSOR REPAIRED.'.
**28.04.1992** Service defect: 'UN - GENERAL - BROKEN STRAP WORK DEFERRED'.
**24.06.1992** Service defect: 'UN - LUBRICATING SYSTEM - MARMON RUBBERS REPLACED ON TWO COUPLERS IN OIL LINE FROM HEAT EXCHANGER TO BANK OF FIVE.'.
**24.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED A/C CRACKED FASCIA.'.
**27.06.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**27.06.1992** Service defect: 'UN - LUBRICATING SYSTEM - IOL LEAK IN FAN COMP. REPAIRED.'.
**03.07.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - R1 HEAD REPLACED AND SEATED.'.
**10.07.1992** Service defect: 'B - BOGIE - OIL CHANGED IN ALL T/M SUPPORT BEARINGS.'.
**10.07.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - WICKS REPLACED ON L2&3 AND R2&3.'.
**10.07.1992** Service defect: 'B - ENGINE - MARMON COUPLER REPAIRED.A/C IOL LEAK NEAR COMPRESSOR.'.
**10.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMMPRESSOR UNLOADER CHECKED OK.REPORTED AS LEAKING.'.
**10.07.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - STRAP ON MAIN RESEVOIR TANK D/SIDE REPAIRED.'.
**10.07.1992** Service defect: 'B - OTHER BODY REPAIRS - WINDOW WASHERS REPAIRED.-WASHER BOTTLE

REPLACED.'.
**10.07.1992** Service defect: 'B - VIGILANCE - VIGILANCE CONTROL REPAIRS DONE. VIG. TIMING RESET.'.
**16.07.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - EDDY CURRENT CLUTCH WIRING AND CONDUIT REPAIRED A/C CRUSHED.'.
**15.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - ALL AIR LINES TO HOOTERS TIED UP & SERVICED.'.
**30.09.1992** Service defect: 'A - BOGIE - PACKAGE CARRIER PLATES TIGHTENED, A/C LOOSE. L4 HORN STAYS TIGHTENED, A/C LOOSE.'.
**30.09.1992** Service defect: 'A - EXHAUST - EXHAUSTS LEAKS TIGHTENED.'.
**30.09.1992** Service defect: 'A - GENERAL - BOTH SEATS REPLACED. W/WASHERS REPAIRED.'.
**30.09.1992** Service defect: 'A - LUBRICATING SYSTEM - OIL LEAK IN FAN COMPARTMENT REPAIRED.'.
**30.09.1992** Service defect: 'A - AIR CON COMPRESSOR SHAFT SEAL TO MONITOR,A/C LEAK.'.
**30.09.1992** Service defect: 'A - 30/9.'.
**26.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GAUGE LIGHTS REPAIRED.'.
**26.10.1992** Service defect: 'UN - GENERAL - HEATER MESH REPAIRED.'.
**26.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - FAST COUPLING GREASED.'.
**26.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NEW GASKET FITTED TO AUTO BRAKE VALVE, TESTED OK.'.
**18.11.1992** Service defect: 'TS - TRACTION MOTOR ARMATURE BEARING - NO 1 T/MOTOR REPLACED, A/C EARTH ON ARMATURE. LOCO MOVEMENT TESTED OK IN FOWARD & REVERSE & IN DYN/BRAKE.'.
**06.01.1993** Service defect: 'SW - ENGINE - FAST COUPLING GREASED.'.
**06.01.1993** Service defect: 'SW - EXHAUST - EXHAUST CONCERTINA (SHORT) CHANGED.'.
**12.01.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE MODS.CORECTED.OK.'.
**12.01.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 2 LUGS SHORTED TOGETHER ON BKTI(AUX)-25A+8K-REPAIRED.'.
**28.01.1993** Service defect: 'E - BOGIE MAINTENANCE - WICKS - WICKS R1,L1,R2,L3,R4,R5 CHANGED.'.
**28.01.1993** Service defect: 'E - COOLING SYSTEM - WATER LEAK OBS. SIDE PIPE GOING TO RADIATOR REPAIRED.'.
**28.01.1993** Service defect: 'E - LUBRICATING SYSTEM - OIL LEAK ON PIPE FROM BANK OF FIVE TO HEAT EXCHANGER FIXED.'.
**28.01.1993** Service defect: 'E - MECHANICAL EQUIPMENT - GASKETS ON R1 AND R2 INLET AIR ELBOWS CHANGED A/C BLOWN OUT.'.
**28.01.1993** Service defect: 'E - MECHANICAL EQUIPMENT COUPLER - FAST COUPLING REPLACED A/C LEAKING GREASE AND VERY NOISY.'.
**28.01.1993** Service defect: 'E - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE REPAIRED A/C NOT RELEASING CORRECTLY.'.
**28.01.1993** Service defect: 'E - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO HEAD REPLACED.'.
**28.01.1993** Service defect: 'E - TRACTION MOTOR BRUSHES - 18 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.
**28.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - FAST COUPLER REPLACED. A/C LEAKING GREASE.'.
**21.05.1993** Service defect: 'TS - ENGINE CYLINDER HEADS - R1 HEAD REPLACED,A/C BRUISED INJECTOR SEAT.'.
**21.05.1993** Service defect: 'TS - MAIN GENERATOR - MAIN GENERATOR REPLACED,A/C ARMATURE HAS CRACKED RISER BARS & BRUSHES ON 1 POLARITY (ALTERNATIVE BRUSHES) ALL BURNT.'.
**21.05.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NO 1 T/MOTOR REPLACED,A/C ARMATURE DOWN TO EARTH.'.
**27.07.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - ELECTRIC CABINET DOOR SEALS REPLACED.'.
**27.07.1993** Service defect: 'B - ENGINE WATER LEAK - WATER PIPE REPLACED IN FAN COMPARTMENT, A/C WATER LEAK.'.
**27.07.1993** Service defect: 'B - FUEL PUMP MOTOR - FUEL PUMP MOTOR BRUSHES REPLACED, A/C SHORT.'.
**01.09.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 1 WHEELSET REPLACED, A/C WICK FAILURE. NO 1 AXLE BOLTS WIRED, REPLACED GPO.'.
**06.09.1993** Service defect: 'UN - GENERAL - DRIVERS SEAT, H/BRAKE REPAIRED, OBS W/WIPER CONNECTION REPLACED.'.
**22.09.1993** Service defect: 'UN - COOLING SYSTEM - WATER SIGHT GLASS REPLACED.'.
**22.09.1993** Service defect: 'UN - ENGINE AIR FILTERS - AIR COMPRESSOR INTAKE FILTER RETENTION CLAMPS REPAIRED, A/C FILTERS VIBRATING.'.
**22.09.1993** Service defect: 'UN - GENERAL - TAP REPAIRED IN WASH BASIN.'.
**22.09.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED IN PIPE ABOVE OIL FILTERS (GASKET REPLACED).'.
**20.10.1993** Service defect: 'SW - EXHAUST - EXHAUST JOINT REPAIRS COMPLETED.'.
**20.10.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR/COUPLING REPAIRS COMPLETED.'.
**20.10.1993** Service defect: 'SW - INJECTOR REQUIRE CHANGING NEXT SERVICE.20/10.'.
**02.11.1993** Service defect: 'UN - LOCO RELEASED TO PORT AUG FOR REPAIRS.2/11.'.
**22.11.1993** Service defect: 'UN - GENERAL - COLLISION REPAIRS EFFECTED AT FABRICATION SHOP - B-END WALK-WAY REPLATED AND STRENGTHENED.'.
**26.11.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 5 SUSPENSION WICKS CHANGED.'.
**26.11.1993** Service defect: 'A - ENGINE CYLINDER HEADS - SPRING ON VALVE BRIDGE R6 HEAD REPLACED, A/C SPRING BROKEN.'.
**26.11.1993** Service defect: 'A - EXHAUST - LONG EXHAUST BELLOW RH/S OF MOTOR REPLACED, A/C CRACKED. SHORT EXHAUST BELLOW LHS OF MOTOR REPLACED, A/C CRACKED.'.
**26.11.1993** Service defect: 'A - GENERAL - WINDSCREEN WASHERS REPAIRED. OBS/SIDE MIRROR REPLACED.'.
**26.11.1993** Service defect: 'A - MAIN GENERATOR - 13 MAIN GENERATOR BRUSHES REPLACED.'.
**26.11.1993** Service defect: 'A - MECHANICAL EQUIPMENT

COMPRESSOR - 2 AIR LEAKS ON AIR COMP UNLOADERS REPAIRED.'.

**26.11.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - COMP TO MAIN RES PIPE REPAIRED, BRAKE PIPE PRESSURE ADJUSTED'.

**26.11.1993** Service defect: 'A - TRACTION MOTOR - T/MOTOR BLOWER FAN ('B'END) REPLACED, A/C SHAFT WORN & BEARING LOOSE.'.

**09.02.1994** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED STOP/RUN SWITCH ON CONTROL PANEL.'.

**09.02.1994** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO GAS INLET CASING BOLTS TIGHTENED.'.

**09.02.1994** Service defect: 'C - MAIN GENERATOR - MAIN GENERATOR VEED OUT.'.

**09.02.1994** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED.'.

**09.02.1994** Service defect: 'C - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS PULLED APART AND CLEANED, A/C WATER.'.

**15.03.1994** Service defect: 'UN - GENERAL - 'B'END YOKE REPLACED. FIRE EXTINGUISHER IN FAN COMPARTMENT REPLACED, A/C UNDER CHARGED.'.

**28.04.1994** Service defect: 'A - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.

**28.04.1994** Service defect: 'A - GENERAL - BOTH SEATS REPLACED.'.

**28.04.1994** Service defect: 'A - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**28.04.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - BRUSH CELL CHANGED ON NO 5 T/M 9 O'CLOCK HOLDER 'V'RING END.'.

**02.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION REPAIRS COMPLETED. HANDRAILS AND STEPS REPAIRED & REPAINTED.'.

**02.05.1994** Service defect: 'UN - VIGILANCE - VIGILANCE CUT BACK IN AND SEALED.'.

**12.05.1994** Service defect: 'TS - COOLING SYSTEM - WATER RAIL JOINTS (12) REPLACED.'.

**12.05.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - RT 5 AND RT 6 DIODES CHANGED.'.

**12.05.1994** Service defect: 'TS - ENGINE - L2 ROCKER COVER GASKET REPLACED.'.

**12.05.1994** Service defect: 'TS - FUEL SYSTEM INJECTORS - L4 INJECTOR REPLACED.'.

**12.05.1994** Service defect: 'TS - GENERAL - D/SIDE SEAT REPLACED IN CORRECT POSITION.'.

**01.07.1994** Service defect: 'UN - GENERAL - SEAT ADJUSTED AS PER INFO GIVEN, SERVICE WATER TANK REPAIREDDOOR HANDLE REPAIRED.'.

**09.08.1994** Service defect: 'UN - BOGIE - BRAKE BLOCKS AND ADJUSTMENT COMPLETED OK'.

**24.08.1994** Service defect: 'UN - OTHER BODY REPAIRS - DOOR HANDLE REPAIRED'.

### 603

Details: locomotive '603 A' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.6m
**Tare Weight:** 112.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $250450
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-3
**Date Built:** 23.12.1969
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAP

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 12.03.1997 | | |
| Last Lift: | 15.05.1990 | | |
| SW Service Mileage: | 853280 KM | SW Service Date: | 16.11.1996 |
| A Service Mileage: | 542223 KM | A Service Date: | 22.08.1996 |
| B Service Mileage: | 550254 KM | B Service Date: | 12.03.1997 |
| C Service Mileage: | 495490 KM | C Service Date: | 24.04.1996 |
| D Service Mileage: | 248574 KM | D Service Date: | 04.09.1992 |
| E Service Mileage: | 431488 KM | A Service Date: | 28.02.1995 |
| F Service Mileage: | 626523 KM | A Service Date: | 15.05.1990 |
| WT Service Mileage: | 481227 KM | WT Service Date: | 22.12.1988 |
| US Service Mileage: | 548863 KM | A Service Date: | 27.02.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**05.07.1989** Service defect: 'UN - BOGIE - R3,4 SLACK ADJUSTERS REPLACED A/C BENT.'.

**24.07.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FEED VALVE CHANGED A/C CONTACTS DROPPING OUT DUE LOW AIR PRESSURE.'.

**12.08.1989** Service defect: 'UN - TRACTION MOTOR - NO5 TM CHANGED A/C BROKEN TM LUGS.(IN 280911 OUT 290675).'.

**29.08.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - SLIGHT FLASH ON MAIN GEN CLEANED.'.

**29.08.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - ALL BRUSHES REPLACED IN NO4 TM A/C CRACKED & FRAYED.P-200K.'.

**06.09.1989** Service defect: 'UN - NO 4 T/MOTOR BAD FLATS'.

**15.09.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICKS CHECKED.'.

**06.10.1989** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRE ON EF1 REPLACED.'.

**21.10.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN INSULATORS FILED & CLEANED,BRUSHES FREED A/C FLASH.P-500K.'.

**21.10.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 1 & 2 TM'S CLEANED A/C SMALL FLASH.'.

**21.10.1989** Service defect: 'UN - R.H S. MAIN RES BRACKET TO BE STRENGTHENED TEM'.

**28.10.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED.'.

**28.10.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 4 BRUSHES CHANGED IN NO4 TM A/C BROKEN BRUSHES & HANGING TAILS.P-500K.'.

**30.10.1989** Service defect: 'TS - CONTACTOR MISCELLANEOUS - LOCO LOST POWER.BAD EF1 CONTACT,WIRES CHANGED TO ANOTHER SETOF CONTACTS,CHECKED OK.'.

**05.11.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - EF1 CONTACTOR AUX WIRE 25A RELUGGED A/C BROKEN WIRE.'.
**02.12.1989** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN INSULATORS FILED & CLEANED,COMM,V RING CLEANED.ONE BRUSH HOLDER REPLACED A/C SPRING MELTED.'.
**02.12.1989** Service defect: 'TS - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN GEARBOX REPLACED.'.
**02.12.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO2 & 3 TM'S CLEANED A/C SLIGHT FLASH.P-500K.'.
**19.12.1989** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - 'A'END POTENTIOMETER REPLACED.'.
**19.12.1989** Service defect: 'UN - DYNAMIC BRAKE SETTING - D/BRAKE SET UP,CHECKED A/C HUNTING,TEST RUN,OK.'.
**26.01.1990** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - FUEL PUMP CIRCUIT BREAKER BOOKED FOR TRIPPING.FUEL PUMP & BREAKERS CHECKED,NO FAULT FOUND.'.
**15.05.1990** Service defect: 'F - COOLING SYSTEM RADIATOR - EXTRA RADIATOR FITTED.'.
**15.05.1990** Service defect: 'F - ELECTRICAL MAINTENANCE -WIRING - 181/1 TRICKLE CHARGE SUPPLY,132/1 ELECTRIC VIGILANCE,173- REMOVAL OF 'B' CONTROL STAND,175/1 M.U.STOP BUTTONS,180/1-'.
**15.05.1990** Service defect: 'F - ELECTRICAL MAINTENANCE -WIRING - CAB LIGHTS,187 INCREASE GEN. OUTPUT,193 RECTIFIER MODIFICAT-ION, M215 OIL PRESSURE SWITCH MOD.'.
**15.05.1990** Service defect: 'F - ELECTRICAL MAINTENANCE -WIRING - THE FOLLOWING ALTERATIONS, MODIFICATIONS, WORKSHOP INSTRUCT-IONS WERE EFFECTED,113/NIGHT-DAY VIGILANCE LIGHTS.'.
**15.05.1990** Service defect: 'F - ENGINE - ENGINE CHANGED. ENGINE CAMSHAFTS WITH 145 DEG. OVERLAP FIT-TED. STANDARD INJECTORS & PUMPS FITTED.'.
**15.05.1990** Service defect: 'F - GENERAL - AIRCONDITIONER INSTALLED.HOOTERS REPOSITIONED.TWO MAN CREW CABINET INSTALLED.AIR REFRIGERATOR INSTALLED.PEDESTAL RE-'.
**15.05.1990** Service defect: 'F - GENERAL - ALL AUXILIARY EQUIPMENT OVERHAULED.'.
**15.05.1990** Service defect: 'F - GENERAL - MOVED.EXTRA WINDOWS FITTED TO CAB.WIDE VIEW MIRRORS FITTED. WINDSCREEN WASHERS FITTED.'.
**15.05.1990** Service defect: 'F - GENERAL - THE FOLLOWING ALTERATIONS, MODIFICATIONS, WORKSHOP INSTRUCT-IONS WERE EFFECTED. M217AD, W038AD, W045AD, W229AD, W056AD,'.
**15.05.1990** Service defect: 'F - GENERAL - W119AD, W072AD, W220AD, W084AD, M096AD, M201AD, W028AD, W057AD,M110AD,M109AD.'.
**15.05.1990** Service defect: 'F - MECHANICAL MAINTENANCE - AIR BRAKE - MR & BP COCKS DUPLICATED.'.
**15.05.1990** Service defect: 'F - STANDARD GAUGE BOGIE TO BE INSTALLED AT MEDD.'.
**15.05.1990** Service defect: 'F - DYNAMIC BRAKE TO BE SET UP AT MEDD. FINAL INSPECT-'.
**15.05.1990** Service defect: 'F - ION, TRIAL & ISSUE.'.
**01.06.1990** Service defect: 'UN - FUEL SYSTEM LINES - R4 HIGH PRESSURE FUEL LINE REPLACED.'.
**01.06.1990** Service defect: 'UN - FUEL SYSTEM PUMP - R3 PUMP SPRING REPLACED'.
**14.06.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FUEL PUMP CIRCUIT BREAKER CHANGED.'.
**25.06.1990** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - TWO WIRES ON AUX CONTACTS OF REVERSER REPAIRED.'.
**02.07.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE NOT WORKING.REPLACED 8V LUG ON BK1 A/C BROKEN.'.
**02.07.1990** Service defect: 'UN - RADIO REPAIR - RADIO BOOKED FAULTY.CHECKED OK.'.
**13.07.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - EP VALVE COIL REPLACED ON P1 CONTACTOR A/C OPEN CIRCUIT.'.
**27.07.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN FLASHED 1 BRUSH HOLDER REPLACED MG&TMS CLEANED UP.'.
**27.07.1990** Service defect: 'UN - WHEELSLIP - W/SLIP. CHECKED OK IN DEPOT.P500K.'.
**25.08.1990** Service defect: 'TS - TRACTION MOTOR - NO5 TM CHANGED A/C GROUND RELAYS.(IN 280925 OUT 7384056).'.
**30.08.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - VARIOUS AUX CONTACTS CLEANED.'.
**30.08.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - BRUSH BOX IN MAIN GEN REPLACED.P-300K.'.
**20.09.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN FLASHED,CLEANED,TEST BRUSHES TO BE REMOVED.'.
**20.09.1990** Service defect: 'UN - MAIN GEN TEST BRUSHES TO REMOVE A/C CAUSING MG TO'.
**20.09.1990** Service defect: 'UN - FLASH,.'.
**24.09.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - ALL MAIN GEN BRUSHES CHANGED, BEDDED IN & MG CURED & CLEANED'.
**24.10.1990** Service defect: 'UN - WHEELSLIP - P22 & P32 CONTACTS CLEANED A/C WHEELSLIP FUNCTION FAULTY.'.
**12.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - DOOR HANDLE REPAIRED.'.
**18.12.1990** Service defect: 'TS - CONTACTOR INTERLOCKS - LOSS OF POWER - EBC INT/LOCKS CLEANED,LOCO TESTED OK.'.
**29.01.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - ADJUSTED HOT ENGINE SWITCH'.
**13.02.1991** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT - LOCO TEST RUN TO WINNINOWIE. - CR2 CLEANED/UP & TEST RUN OK AFTER REPAIR'.
**22.02.1991** Service defect: 'UN - AIR CONDITIONING - L.P. 300KPA H.P.900KPA. THERMOSTAT SET FOR 20DEG CENT.'.
**04.03.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON ADJUSTED,A/C NOT WORKING.'.
**04.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES TESTED NO FAULT FOUND,A/C BRAKES CREEPING ON.'.
**20.03.1991** Service defect: 'TS - TRACTION MOTOR - NO5 TM REPLACED,A/C PINION & BEARING FAILURE.'.
**19.04.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R6,L6,L5,L4,R4,L3,L2 R2 WICKS CHANGED,A/C

DIRTY.'.
**19.04.1991** Service defect: 'A - FUEL SYSTEM INJECTORS - L3 INJECTOR REPLACED.'.
**19.04.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE & MAIN RES PIPE 'B'END OBS SIDE CHANGED.'.
**28.06.1991** Service defect: 'C - ELECTRICAL MISC. AC/DC RELAYS - WHEELSLIP RELAY (1) CHANGED,A/C DROP OUT VALVE TOO LOW.'.
**28.06.1991** Service defect: 'C - FUEL SYSTEM PUMP - L3 FUEL PUMP CHANGED,A/C SIEZED RACK.'.
**28.06.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - IND BRAKE FAULT REPAIRED.ISOLATING COCK RENEWED & PILOT AIR VALVE RUBBERS RENEWED.'.
**28.06.1991** Service defect: 'C - DYN BRAKE BLOWER MOTOR TO MONITOR.SOME SEGMENTS'.
**28.06.1991** Service defect: 'C - BLOWN,(POSSIBLE COIL BREAKDOWN).28/6.'.
**29.07.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CONTROLLER HANDLE REPAIRED,A/C FAULTY.'.
**05.08.1991** Service defect: 'UN - DYNAMIC BRAKE SETTING - AMPLIFIER CHANGED ON DYN/BRAKE SET UP.'.
**04.09.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 8 WICKS REPLACED.'.
**04.09.1991** Service defect: 'A - FUEL SYSTEM INJECTORS - R3,4 & 6. L4 INJECTORS RENEWED.'.
**04.09.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE & 70 PSI FEED VALVE REPLACED.'.
**04.09.1991** Service defect: 'A - DYN/BRAKE CUT OUT,A/C BURNS ON DB BLOWER MOTOR COM'.
**04.09.1991** Service defect: 'A - 4/9.'.
**19.09.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE BLOWER FAN REPLACED, A/C BURNT COM SEGMENTS.DYN/ BRAKE CHECKED OK.BCR2 RESISTOR REMOVED A/C FAULTY. UNABLE TO'.
**21.11.1991** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L6 WICK REPLACED.'.
**21.11.1991** Service defect: 'B - FUEL SYSTEM - FUEL LEAK REPAIRED ON RETURN PIPE.'.
**05.12.1991** Service defect: 'TS - BOGIE - DOUBLE SET OF BOGIES FITTED.IN - A END NO 5, B END NO 6 . OUT - A END NO 9, B END NO 5.'.
**16.01.1992** Service defect: 'UN - AIR CONDITIONING - AIR CON REPAIRED.'.
**12.02.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES.DRAIN PIPES REPAIRED.AIR GAUGE GLASS REPLACED.'.
**12.02.1992** Service defect: 'A - R4 AXLE BOX WEAR PLATES TO REPLACE.6'LONG,SHORT EX'.
**12.02.1992** Service defect: 'A - HAUST CONNECTOR REQUIRED. 12/2.'.
**19.03.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - BKT BUS BARS REPAIRED.A/C BURNT.-LOCO MEGGERED & DIRECTION'.
**09.04.1992** Service defect: 'C - NO 4 T/MOTOR TO MONITOR,A/C PITTED & BURN MARKS ON'.
**09.04.1992** Service defect: 'C - COMMUTATOR SEGMENTS.9/4.'.
**28.04.1992** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYNAMIC BRAKE GRIDS REMOVED, INSULATORS CLEANED, TESTESD OK.'.
**08.05.1992** Service defect: 'SW - DYNAMIC BRAKE - DYN/BRAKE CUT OUT,A/C GRID BLOWER FAN REMOVED.'.
**08.05.1992** Service defect: 'SW - GRID BLOWER FAN REMOVED - AWAITING OVERHAULED UNIT'.
**08.05.1992** Service defect: 'SW - 8/5.'.
**11.06.1992** Service defect: 'TS - MAIN GENERATOR - EXCITER REPLACED. LOCO POWER TESTED OK.'.
**11.06.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED, LOOSE CONNECTION ON SPEEDO TRANS. REPAIRED'.
**15.06.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - EBC. CONTACTOR COIL REPLACED A/C BURNT.TEST RUN O.K.'.
**17.07.1992** Service defect: 'A - AUXILLARY MACHINES - CRANK CASE EXHAUSTER BRUSHES CHANGED A/C TOO SHORT.'.
**17.07.1992** Service defect: 'A - DYNAMIC BRAKE - GRID BLOWER FAN REPLACED WITH O/HAULED UNIT.'.
**17.07.1992** Service defect: 'A - EXHAUST - EXHAUST BOLTS TIGHTENED ON HEADS AND TURBO.'.
**17.07.1992** Service defect: 'A - MAIN GENERATOR BRUSHES - 16 M/GEN. BRUSHES CHANGED A/C TOO SHORT.'.
**17.07.1992** Service defect: 'A - MECHANICAL EQUIPMENT - WINDOW WASHERS REPAIRED.'.
**19.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BURNT BUS BAR ON BKT1 REPAIRED.'.
**19.08.1992** Service defect: 'UN - BATTERIES BOILING - TO MONITOR.20/8/92.'.
**27.08.1992** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHARGED. BATTERIES STAB TESTED AND CHARGE RATE CHECKED OK.'.
**04.09.1992** Service defect: 'D - EXHAUST - L1 EXHAUST BOLT TIGHTENED.'.
**04.09.1992** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK IN BRAKE PIPE REPAIRED.'.
**10.12.1992** Service defect: 'A - DYNAMIC BRAKE - DYN/BRAKE MODS COMPLETED, LOCO SENT ON TRIAL RUN OK.'.
**07.01.1993** Service defect: 'UN - FUEL SYSTEM INJECTORS - R1 INJECTOR CHANGED,A/C CRACKED.'.
**27.01.1993** Service defect: 'TS - COOLING SYSTEM - 3 VICTAULIC JOINTS REPLACED A/C LEAKING.'.
**27.01.1993** Service defect: 'TS - EXHAUST - EXHAUST CONNECTOR REPLACED A/C LEAKING.'.
**24.02.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - FIVE WICKS CHANGED.'.
**26.02.1993** Service defect: 'SW - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED A/C CRACKED.'.
**26.02.1993** Service defect: 'SW - OTHER BODY REPAIRS - ENGINE ROOM DOORS REPAIRED.'.
**26.03.1993** Service defect: 'UN - AIR CONDITIONING - V BELT (AIR CON) REPLACED.'.
**23.04.1993** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONING UNIT REPLACED EX-REPAIRS AT ISLINGTON WORKS'.
**12.05.1993** Service defect: 'A - AIR CONDITIONING - AIR/CON DRIVE BELT REPLACED.'.
**12.05.1993** Service defect: 'A - BOGIE - L6 HORNSTAY BOLT TIGHTENED,A/C LOOSE.BOLT REPLACED ON L6

BRAKE CYLINDER,A/C MISSING.'.

**12.05.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L4 WICK REPLACED, A/C DIRTY.'.

**12.05.1993** Service defect: 'A - MAIN GENERATOR BRUSHES - NUMEROUS MAIN/GEN BRUSHES REPLACED.'.

**09.06.1993** Service defect: 'UN - GENERAL - CRACKS IN FLOOR WELDED UP.'.

**09.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR STRAPS REWELDED.'.

**29.06.1993** Service defect: 'UN - BATTERY MAINTENANCE - 1 BATTERY REPLACED EX 604,BATTERIES CHARGED UP & CHECKED OK.'.

**05.07.1993** Service defect: 'TW - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY OPERATED IN DYNAMIC. ALL T/M'S CHECKED OK. MAIN GEN. OK. LOCO MEGGERED P=4M OHMS.'.

**14.07.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE CHECKED OK.'.

**14.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - LUG REPLACED ON (R11) CABLE ON BKT CONTACTOR,A/C BURNT OFF.'.

**16.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - EARTH ON CONTROL - CRANKCASE EXHAUSTER FOUND BURNT OUT, REPLACED.'.

**31.07.1993** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK TURBO END TOP RAIL REPAIRED.'.

**31.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLING BAR STRAIGHTENED.'.

**31.07.1993** Service defect: 'B - TRACTION MOTOR - NO 4 T/M CONCERTINA REPAIRED.'.

**14.08.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - NEGATIVE EARTH ON SPEEDO. - SPEEDO REPLACED.-POSITIVE EARTH FOUND ON PORTABLE BATT. CHARGER.-CHARGER DISCONN. C=400K...'.

**08.09.1993** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 6 DYN/BRAKE GRIDS REPLACED, A/C BLOWN.'.

**08.09.1993** Service defect: 'TS - DYNAMIC BRAKE SETTING - DYN/BRAKE SET UP COMPLETED. LOCO OK ON TRIAL RUN AND SENT INTO TRAFFIC.'.

**06.10.1993** Service defect: 'SW - BATTERY MAINTENANCE - 3 BATTERIES CHANGED A/C DEAD CELLS.'.

**06.10.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - 'B' END KNUCKLE CHANGED.'.

**06.10.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BOTH 'B'END TRAIN PIPE HOSES REPLACED.'.

**06.10.1993** Service defect: 'SW - OTHER BODY REPAIRS - DRIVERS MIRROR REPLACED. OBS. W/SCREEN WIPER REPAIRED. WHISTLE CORD REPLACED.'.

**21.10.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3 WICK CHANGED.'.

**21.10.1993** Service defect: 'A - FUEL SYSTEM LINES - FUEL LINE NO 7 CYL REPAIRED.'.

**14.11.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - AIR CON BELTS REPLACED ON COMPRESSOR.'.

**11.12.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - POWER POINT REPLACED A/C U/S.'.

**21.01.1994** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1, R2, R3 AND L6 WICKS CHANGED, A/C DIRTY.'.

**21.01.1994** Service defect: 'C - EXHAUST - ALL EXHAUST BOLTS TIGHTENED, A/C LEAKING.'.

**21.01.1994** Service defect: 'C - GENERAL - REAR T/M BLOWER BELTS REPLACED. ALL SHUNTER MODS. COMPLETED.'.

**21.01.1994** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER AND PACKAGE REPLACED, A/C COUPLER CRACKED ANDPACKAGE BUSHES U/S.'.

**21.01.1994** Service defect: 'C - OTHER BODY REPAIRS - DOORS AND WINDOWS RESEALED. SEATS REPLACED EX 605.'.

**21.01.1994** Service defect: 'C - VIGILANCE - VIGILANCE RE-TIMED.'.

**02.02.1994** Service defect: 'UN - GENERAL - BRACKETS MADE AND SEATS FITTED. LOCO JUMP STARTED AND RELEASED.'.

**30.03.1994** Service defect: 'TS - MAIN GENERATOR FLASHOVER - FLASH OVER OCCURED IN MAIN GENERATOR, CLEANED UP COMMUTATOR AND BRUSH HOLDERS. CURED COMMUTATOR. OPEN CIRCUIT VOLTAGE'.

**30.03.1994** Service defect: 'TS - TRACTION MOTOR - ALL T/MOTORS CHECKED AND MEGGEREED OK.'.

**03.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER REPAIRS COMPLETED.'.

**03.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - CAB WINDOWS RHS AND LHS REPLACED, A/C BROKEN.'.

**05.05.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHANGED (DRIVERS SIDE).'.

**16.06.1994** Service defect: 'B - DYNAMIC BRAKE - DYN INTERLOCK MAGNET VALVE (D TYPE) REPLACED, A/C WRONG ONE FITTED.'.

**16.06.1994** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO AIR INTAKE FELT SEAL REPLACED, A/C U/S.'.

**16.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMP GOV MAG/NET VALVE CHANGED, A/C LEAKING.'.

**16.06.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE LEAK REPAIRED.'.

**30.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR DIAPHRAM CHANGED.'.

**03.07.1994** Service defect: 'TS - LUBRICATING SYSTEM - GASKET REPLACED, A/C OIL LEAK.'.

**604**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**25.07.1989** Service defect: 'UN - ENGINE - TAPPETS ADJUSTED A/C NOT DONE ON LAST'B'SERVICE.'.

**03.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - L1 FLANGE REFORMED.'.

**12.08.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - WHEELSLIP INDICATION AT 50KPH TRANSITION.TRANS CANS 2-3 SWAPPED,CHECKED OK.'.

**23.08.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R4 WICK CHANGED.'.
**04.12.1989** Service defect: 'A - WHEELSLIP - WSR1 REPLACED.'.
**03.02.1990** Service defect: 'B - NO.5 T/M CHANGE.'.
**06.02.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - TRIAL TRIP TO DC.MEGGERED,OK.'.
**13.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - 'T'PIECE FIXED.'.
**26.03.1990** Service defect: 'A - MAIN GENERATOR FLASHOVER - SLIGHT FLASH ON M/GEN.CLEANED.'.
**02.04.1990** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED.'.
**02.04.1990** Service defect: 'UN - TRACTION MOTOR - NO1 TM CHANGED A/C EARTH ON FIELD (IN 280911 OUT 290688).'.
**06.04.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO1 WICK CHECKED OK.'.
**17.05.1990** Service defect: 'UN - DYNAMIC BRAKE - GRIDS REPLACED.D/BRAKE SET UP,TRIAL TRIPPED,OK.'.
**22.05.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - 1 SPRING,1 BRUSH HOLDER REPLACED A/C FLASH OVER.P-500K.'.
**06.06.1990** Service defect: 'UN - DYNAMIC BRAKE - BOOKED FOR W/SLIP IN D/BRAKE.CHECKED OK IN DEPOT.'.
**22.06.1990** Service defect: 'UN - EXHAUST - R 1,2,3 EXHAUST CONNECTOR REPLACED.'.
**24.07.1990** Service defect: 'WT - WHEELS TO CHANGE'.
**09.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.'.
**14.08.1990** Service defect: 'UN - EXHAUST - LONG & SHORT EXHAUST CONNECTORS REPLACED.'.
**03.09.1990** Service defect: 'SW - D/BRAKE GRID MODS.WINDSCREEN WIPER SPRAY TO FIT.'.
**03.09.1990** Service defect: 'SW - WORKSHOP INSTRUCTIONS 38,107,113,136,175,181,187,'.
**03.09.1990** Service defect: 'SW - 169,196,201,215,217,241,245,192.'.
**01.10.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GR'S CAUSED BY NO3 TM CABLES HAVING A HOLE IN INSULATION. NEW LEATHER PUT ON.'.
**03.10.1990** Service defect: 'TS - TRACTION MOTOR - NO1 TM CHANGED A/C BURNT SUSPENSION BEARING.27/9*'.
**21.12.1990** Service defect: 'SW - ENGINE - CYLINDER HEADS,PISTONS & RINGS REPLACED ON R1,R2,R5,R6,L6 (12) 16MM FUEL PUMPS FITTED.BIG END BEARING SHELLS REPLACED.'.
**21.12.1990** Service defect: 'SW - ENGINE - ENG.SUMP DRAINED & REFILLED WITH ZINC ADDITIVE RUN-IN OIL. ENGINE RUN IN & OIL PRESSURE ADJUSTED FOR 2000 HP'.
**21.12.1990** Service defect: 'SW - ENGINE - LOCO UPGRADED TO 2000 HP. W.I.187.*OIL PRESSURE MODIFICATIONM215.'.
**21.12.1990** Service defect: 'SW - ENGINE GOVERNOR - GOVERNOR REMOVED & REPLACED WITH No.585387'.
**21.12.1990** Service defect: 'SW - ENGINE TEST (ELECT.) - ENGINE & GENERATOR SET FOR 2000HP'.
**21.12.1990** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REMOVED, INTERCOOLER CLEANED & REFITTED. TURBO REFITT-ED.'.
**21.12.1990** Service defect: 'SW - GENERAL - AIR CONDITIONER FITTED.'.
**30.01.1991** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - LIGHT WIRING REPAIRED'.
**30.01.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - AIR CONDITIONING BRACKET FITTED AND TESTED'.
**30.01.1991** Service defect: 'SW - RADIO REPAIR - RADIO INSTALLED'.
**07.02.1991** Service defect: 'TS - WHEELSLIP - RESISTOR TAP-OFFS CORRECTED TO EQUALIZE VOLTAGES ACROSS WHEELSLIP RELAYS.LOCO TRIAL TESTED OK UNDER LOAD.'.
**12.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - HAND BRAKE LUBRICATED A/C STIFF'.
**12.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - RECORDING SPEEDO REPLACED A/C STUCK ON 85 KMH'.
**18.02.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CONTROL SWITCH ON PEDESTAL REPLACED,A/C TRIPPED.'.
**18.02.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE REPLACED.A/C BRAKE PIPE LEAKING.*'.
**15.04.1991** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LEAK - BANJO JOINT L.1 TIGHTENED.'.
**24.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLING PACKAGE CRACKED,CHECKED,RELEASED TO TRAFFIC.'.
**14.05.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION CHECKED OK.'.
**14.05.1991** Service defect: 'UN - WHEELSLIP - WSSR RESISTORS CHECKED OK,LOCO TRIAL RUNNED OK UNDER LOAD FROM 10 TO 90 KMH.TM'S CHECKED IN QUICK FIX.'.
**28.05.1991** Service defect: 'TS - BOGIE - NO3 GEAR CASE BOLT REPLACED.'.
**28.05.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED.'.
**28.05.1991** Service defect: 'TS - ENGINE CYLINDER HEADS - STUD REPLACED ON R1 HEAD.'.
**28.05.1991** Service defect: 'TS - GENERAL - DOOR HANDLE REPLACED.'.
**18.06.1991** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - WHEELSLIP RELAYS 1,2 & 3 REMOVED & REPAIRED.'.
**18.06.1991** Service defect: 'TS - ENGINE CYLINDER HEADS - R3 & R4 HEADS REPLACED.'.
**18.06.1991** Service defect: 'TS - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED.'.
**18.06.1991** Service defect: 'TS - LUBRICATING SYSTEM - DRESSER RUBBERS CHANGED ON OIL PIPE FROM FILTERS TO HEAT EXCHANGER.TESTED OK.'.
**28.06.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - CRI TRANSITION CAM REPLACED,A/C FAULTY.TRANSITION TESTED OK.'.
**28.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - 'A' END DRIVERS STEP REPAIRED.'.
**25.07.1991** Service defect: 'UN - RETURN TO M.P.C A/C FORWARD TRANSITION PROBLEM.'.
**26.07.1991** Service defect: 'SW - CONTACTOR INTERLOCKS - TRANSITION FAULT REPAIRED BY ADJUSTING INTERLOCKS.'.
**26.07.1991** Service defect: 'SW - MAIN GENERATOR

FLASHOVER - M/GEN BRUSH HOLDER REPLACED, A/C FLASHOVER.M/GEN BRUSHED &'.

**07.08.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION CANS CLEANED,SET UP & CHECKED OK.CR2&3 ADJUSTED. CR2 IN 22 CYCLES OUT 20.CR3 IN 43 CYCLES OUT 40.5.TIGHTENED'.

**12.08.1991** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - REPAIRED LOOSE WIRING ON AXLE GEN.SET UP CR1,2 & 3, A/C ENGINE NOT MAKING TRANSITION.TEST RUN,LOCO OK,TRANSITION OK.'.

**12.08.1991** Service defect: 'A - GENERAL - D/SIDE DOOR WINDOW REPLACED, A/C CRACKED.SIDE WINDOW SEALS RENEWED.'.

**12.08.1991** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER PACKAGE REPLACED, A/C U/S.'.

**12.08.1991** Service defect: 'A - WATER LEAK FROM VICTAULIC ABOVE MOTOR,OBS SIDE &'.

**12.08.1991** Service defect: 'A - FROM DRESSER COUPLING NEAR W/PUUMP.12/8.'.

**27.08.1991** Service defect: 'UN - ENGINE - ENGINE MOUNT BOLTS CHECKED & TIGHTENED.GASKETS ON CRANKCASE EXPLOSION DOOR REPLACED.'.

**27.08.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAKS REPAIRED.'.

**27.08.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS ON BANK OF FIVE REPAIRED.'.

**29.10.1991** Service defect: 'C - CONTACTOR MISCELLANEOUS - P22 & P23 MAIN CONTACTS REPLACED,A/C PITTED.'.

**29.10.1991** Service defect: 'C - ELECTRICAL MISCELLANEOUS - FUEL PUMP MOTOR CHANGED,A/C FAULTY.'.

**30.10.1991** Service defect: 'UN - BOGIE - GEARCASE BOLTS FITTED INTO NO 5 TOP GEARCASE.'.

**30.10.1991** Service defect: 'UN - ENGINE WATER LEAK - VICTAULIC L/H SIDE REPAIRED,A/C WATER LEAK.'.

**30.10.1991** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED.'.

**14.11.1991** Service defect: 'UN - OIL FILTERS - ENGINE OIL FILTERS REPLACED,FILTER BANK OIL PRESSURES,IN-125OUT-120,A/C REDUCED REVS FAULT.'.

**14.11.1991** Service defect: 'UN - LHS RADIATOR LEAKING,TO BE MONITORED.14/11.'.

**27.02.1992** Service defect: 'TS - COOLING SYSTEM RADIATOR - OIL LEAK IN RADIATOR ROOM REPAIRED.'.

**27.02.1992** Service defect: 'TS - ELECT. MISC. - GAUGES & INSTRUMENTS - LEAKING WATER SIGHT GLASS REPLACED.'.

**27.02.1992** Service defect: 'TS - ENGINE - EXPLOSION COVER LEAK REPAIRED.'.

**27.02.1992** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - LAY-RUBBER COUPLING FROM COMP.TO G/BOX REPLACED.'.

**27.02.1992** Service defect: 'TS - TRACTION MOTOR - BELTS REPLACED ON TRACTION MOTOR BLOWER FAN A/C SPLITTING.'.

**05.03.1992** Service defect: 'TS - ENGINE CYLINDER HEADS - L4 CYLINDER HEAD REPLACED A/C WATER LEAK.L4 REPLACED AGAIN A/C BENT VALVE OK.'.

**05.03.1992** Service defect: 'TS - FUEL SYSTEM INJECTORS - ALL INJECTORS REPLACED A/C SPITING OIL ON ROOF.TESTED OK.'.

**05.03.1992** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADING D75 MAGNET VALVE REPLACED OK.'.

**03.04.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOAD METER REPLACED EX 705.'.

**03.04.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP.HEAD REPLACED.'.

**12.05.1992** Service defect: 'UN - COOLING SYSTEM - VICTAULIC WATER FITTINGS REPLACED.'.

**12.05.1992** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED.'.

**12.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR H.P.DISCHARGE VALVE REPLACED.'.

**12.05.1992** Service defect: 'UN - TRACTION MOTOR - T/M BLOWER BELTS RETIGHTENED.'.

**20.05.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL LEAK IN FAN COMPARTMENT REPAIRED.'.

**20.05.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED & CHECKED OK.'.

**02.07.1992** Service defect: 'UN - BOGIE - BOGIE CENTRES GREASED.-TRI-MOUNTS LUBED.'.

**02.07.1992** Service defect: 'UN - ENGINE - ENGINE OIL PRESSURE CHECKED OK.85PSI.'.

**02.07.1992** Service defect: 'UN - EXHAUST - EXHAUST BOLTS TIGHTENED.R1 &R3.'.

**02.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB WINDOW RESEALED WITH FELT.'.

**24.07.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - OIL REPLACED IN ALL WICKS EXCEPT L1 AND R1.'.

**24.07.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - LOW MEGGER ON POWER.'.

**24.07.1992** Service defect: 'A - EXHAUST - REPLACED ONE EXHAUST BELLOW-REPLACED EXHAUST PIPE A/C CRACKED.TURBO INLET TIGHTENED.'.

**24.07.1992** Service defect: 'A - MAIN GENERATOR FLASHOVER - M/GEN. HAS SLIGHT FLASHING ON INSIDE OF COMM.WHEN LOCO IS RUNNING UP.'.

**24.07.1992** Service defect: 'A - TRACTION MOTOR SUSPENSION BEARING - RE-WIRED 4 SETS OF BEARING CAPS.'.

**31.07.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - REPLACED NO.1 T/M AND WHEELSET REPLACED.-EX 605 W/SET.'.

**03.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICKS ON NO.1 WHEELSET CHANGED A/C DIRTY.-OIL REPLACED.'.

**11.08.1992** Service defect: 'UN - GENERAL ACCIDENT - GEARCASE INSTALLED ON NO.5. NEW SEALS FITTED A/C OLD ONES U/S. A/C DERAILMENT. SPREADER BAR STRAIGHTENED. BOGIE'.

**20.08.1992** Service defect: 'UN - GENERAL - TOILET UNBLOCKED.'.

**14.10.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1,L1,R2,L2,R4,L4 & R5 WICKS CHANGED.'.

**14.10.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END BRAKE ADJUSTER FOR L3 & 4 BRAKES REPLACED.'.

**14.10.1992** Service defect: 'C - INJECTORS TO CHANGE NEXT SERVICE.13/10.'.

**16.10.1992** Service defect: 'UN - MAIN GENERATOR FLASHOVER - SLIGHT FLASHOVER IN GEN. BOTTOM

BRUSHHOLDER IN GEN REPLACEDA/C WORN SPRING. LOCO SENT ON CONTROL.'.

**22.02.1993** Service defect: 'UN - DYNAMIC BRAKE SETTING - DYNAMIC BRAKE SET UP TRIAL RUN OKAY,BLOWER MOTOR CHECKED OK,BAFFLES ABOVE BRAKE TANK NOISY.'.

**22.02.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - DYNAMIC BRAKE CABLING REPAIRED A/C SHORTED TOGETHER AND BLEWUP'.

**22.02.1993** Service defect: 'UN - FUEL SYSTEM INJECTORS - R5 INJECTOR REPLACED, A/C LEAKING.'.

**22.02.1993** Service defect: 'UN - TRACTION MOTOR - NO.5 T/M CHANGED.'.

**605**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**07.09.1989** Service defect: 'F - ENGINE - LOAD TESTED AND SET AT 1030 REVS-UPGRADED TO 2200 HP.'.

**07.09.1989** Service defect: 'F - GENERAL - MODS - M196AD-M217AD-M055AD-M064AD-M100AD-M109AD-MN110AD FULL 'F' SERVICE * ALL MODS - COUPLER LIGHTS - STEPLIGHT.'.

**07.09.1989** Service defect: 'F - OTHER BODY REPAIRS - BODY REPAIRS CARRIED OUT AS REQUIRED.'.

**11.10.1989** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - ALL WICKS CHECKED OK A/C O/HAULED BOGIES.'.

**12.10.1989** Service defect: 'UN - ENGINE - OVERSPEED ADJUSTED A/C TRIPPED.'.

**12.10.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSS OF POWER.AUX CONTACTS ON CK2 ADJUSTED & TIGHTENED 15C WIRES ON EFR PANEL.'.

**14.10.1989** Service defect: 'FA - GENERAL LOSS OF POWER - OPDR TIMER REPLACED.P32 AUX CLEANED A/C NO 7/8 ENGINE SPEEDS'.

**27.10.1989** Service defect: 'TS - TRACTION MOTOR - NO3 TM CABLE CLEAT REPLACED.NO 2 TM CHANGED A/C BURNT SUPPORT BEARING.(IN 280920 OUT 280912).'.

**05.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO2 WICK CHECKED OK.'.

**05.11.1989** Service defect: 'UN - FUEL SYSTEM LINES - L1 HP FUEL LINE REPLACED.'.

**15.11.1989** Service defect: 'UN - ENGINE - ENGINE SHUTTING DOWN.OVERSPEED REPAIRED.'.

**15.11.1989** Service defect: 'UN - EXHAUST - R1 SHORT EXHAUST CONNECTOR REPAIRED A/C CRACKED.'.

**15.11.1989** Service defect: 'UN - FUEL SYSTEM LINES - L1 H/P FUEL LINE CHANGED.'.

**15.11.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSING POWER,G/F AUXILARY CONTACTS REALIGNED.'.

**16.11.1989** Service defect: 'UN - CONTACTOR INTERLOCKS - 6K & 6L INTERLOCKS ON WSR1 CONTACTOR CLEANED.'.

**16.11.1989** Service defect: 'UN - ENGINE - OVERSPEED CHECKED & ADJUSTED OK A/C LOW.'.

**08.12.1989** Service defect: 'UN - EXHAUST - R 4,5,6 EXHAUST PIPE TO TURBO REPAIRED.'.

**12.12.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - ENGINE OVERSPEED SECURING PIN REPLACED A/C SHEARED OFF.'.

**03.01.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.4 WICK CHECKED OK.(SLIGHT PICK/UP)'.

**13.02.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - GROUND RELAY A/C OIL IN MAIN GEN.'.

**26.02.1990** Service defect: 'TS - ENGINE - ENGINE BOOKED FOR TORCHING.LOCO TRIAL RUN,CHECKED OK.'.

**08.03.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BLOWER MOTOR CHANGED.'.

**16.03.1990** Service defect: 'TS - TRACTION MOTOR - NO 2 TM CHANGED A/C BURNT SUSPENSION BEARING.(IN 7398379 OUT280920).'.

**18.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - R2,L2 WICKS CHANGED.'.

**18.03.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - CABLE ON NO4 TM RUBBED THROUGH,TEMPORARILY REPAIRED.'.

**21.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.2 WICK CHECKED OK.'.

**22.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO 2 WICK CHECKED OK.'.

**04.04.1990** Service defect: 'UN - BOGIE - SUPPORT FAILURE - NO.2 SUPPORT PACKED WITH HARD/GREASE. - BEING RETURNED TO M.E.D.D.FOR REPAIRS.'.

**04.04.1990** Service defect: 'UN - BEING HAULED TO M.E.D.D. A/C NO.2 SUPPORT FAILURE.'.

**04.04.1990** Service defect: 'UN - (4/4)'.

**30.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO2 WICK CHECKED OK.'.

**07.06.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INTAKE FILTERS CHANGED A/C INDICATER SHOWS BLOCKED. CHANGED ON 4/6/90*'.

**07.06.1990** Service defect: 'UN - GENERAL - CUBICLES RESEALED.'.

**02.07.1990** Service defect: 'UN - ENGINE - TEMPORARY PIN PLACED IN O/SPEED HANDLE.'.

**02.07.1990** Service defect: 'UN - OVER SPEED HANDLE PIN TO REPLACE.'.

**06.07.1990** Service defect: 'UN - GENERAL - CAB DOOR & WINDOW SEALS REPAIRED.'.

**18.07.1990** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 4 GRIDS REPLACED.GRID AREA WASHED OUT A/C OIL.'.

**24.07.1990** Service defect: 'UN - GENERAL ACCIDENT - LOCO INSPECTED FOR DERAILMENT DAMAGE.OK.'.

**27.07.1990** Service defect: 'UN - ENGINE - OVERSPEED REVS ADJUSTED A/C SHUT DOWN.'.

**30.08.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L3,R3 WICKS REPLACED.'.

**16.10.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - CABLE ON NO4 TM RUBBING THROUGH,REPAIRED.'.

**21.10.1990** Service defect: 'UN - ENGINE - BOOKED FOR NO INCREASE IN ENGINE SPEED ABOVE NOTCH 6,REVS CHECKED OK IN DEPOT.'.

**31.10.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.4 T/MTR CABLE RE-INSULATED.'.

**01.11.1990** Service defect: 'UN - TRACTION MOTOR - LEATHER GATER FITTED TO TM CABLES.'.

**01.11.1990** Service defect: 'UN - NO 4 T/MOTOR CABLES TO

SHORT'.
**09.11.1990** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L3,L4,L5,L6,R1,R2,R4,R6 WICKS CHANGED.'.
**06.02.1991** Service defect: 'TS - ENGINE - ENGINE HUNTING CHECKED OK IN DEPOT.'.
**06.02.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR ADJUSTED A/C OVERCHARGING.'.
**06.02.1991** Service defect: 'A - ENGINE HUNTING TO BE MONITORED WHILST IN TRAFFIC.'.
**11.02.1991** Service defect: 'UN - BROKEN PIPE - BROKEN FUEL PIPE - L.5 H.P.FUEL PIPE REPLACED. - (FUEL PUMP TO HEAD)'.
**19.04.1991** Service defect: 'UN - GENERAL - AIR LINE ON SEAT(D/S)REPAIRED.WINDOW CATCHES REPAIRED ON OBSSIDE.REAR VISION MIRROR & SUN VISOR REPAIRED.'.
**14.05.1991** Service defect: 'UN - ENGINE WATER LEAK - TOP WATER PIPE ON TURBO LEFT SIDE REPAIRED,A/C PIPE SPLIT. BRACKET HOLDING PIPE REPAIRED,A/C BROKEN.'.
**14.05.1991** Service defect: 'UN - VIGILANCE - VIG CHECKED OK IN DEPOT.'.
**28.05.1991** Service defect: 'UN - VIGILANCE - VIGILANCE CHECKED OK IN DEPOT.'.
**14.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 70LB PILOT CUT OFF VALVE REPLACED.SEALS IN PILOT AIR VALVE (RELEASE),REPLACED.LOW PRESSURE 'SQUARE'D ADJUSTED,AIR LEAK'.
**14.06.1991** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED.'.
**18.07.1991** Service defect: 'A - COOLING SYSTEM - LHS VICTAULIC JOINT TO RADIATORS (NEAR TURBO) REPLACED.'.
**18.07.1991** Service defect: 'A - FUEL SYSTEM - R5 BUS RAIL METAL FLEX GASKET (FUEL) REPLACED.'.
**18.07.1991** Service defect: 'A - NO 4 T/M CABLES TO SHORT.18/7.'.
**22.08.1991** Service defect: 'TS - EXHAUST - EXHAUST FLEXI JOINTS REPLACED.'.
**22.08.1991** Service defect: 'TS - LUBRICATING SYSTEM - OIL CHANGED & BANK OF 5 FILTERS REPLACED.'.
**22.08.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - A & B PACKAGES CHECKED OK.'A'END COUPLER REPLACED, A/C CRACKED.'.
**22.08.1991** Service defect: 'TS - NO FAULT FOUND - LOCO TRIAL RUN 21/8,BOOST PRESS 25LBS,FUEL OIL PRESS 23LBS. COULD NOT FAULT..'.
**24.10.1991** Service defect: 'UN - ENGINE WATER LEAK - VICTOLIC JOINTS REPLACED,A/C WATER LEAK.'.
**24.10.1991** Service defect: 'UN - EXHAUST - EXHAUST JOINTS REPACKED WITH EXTRA GASKETS,A/C LEAKING.'.
**07.11.1991** Service defect: 'UN - EXHAUST - EXHAUST REPAIRED,A/C U/S.'.
**06.12.1991** Service defect: 'A - COOLING SYSTEM RADIATOR - NEW VICTAULIC GASKET FITTED TO LH/SIDE RADIATOR,A/C LEAKING.'.
**24.12.1991** Service defect: 'UN - EXHAUST - LHS TOP EXHAUST PIPE WELDED A/C CRACKED.'.
**14.01.1992** Service defect: 'D - CONTACTOR MISCELLANEOUS - RT6 REPLACED.'.
**14.01.1992** Service defect: 'D - OTHER BODY REPAIRS - DRIVERS SEAT REPAIRED.'.
**06.02.1992** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - LOCO TRIAL RUN,SLIGHT FLATS, SENT TO WTM.'.
**06.03.1992** Service defect: 'UN - AUXILLARY MACHINES - AUXILLARY GENERATOR REPLACED OK. LOAD METER REPLACED.'.
**19.03.1992** Service defect: 'A - BLOCKED FILTERS - ENGINE AIR INTAKE FILTERS REPLACED.A/C U/S.'.
**19.03.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - MAIN GEN. ARMATURE DOWN TO FRAME ON MEGGERING WITH BRUSHES REMOVED.-TO MONITOR.'.
**19.03.1992** Service defect: 'A - EXHAUST - /H UPPER EXHAUST PIPE WELDED.-A/C CRACKED.'.
**19.03.1992** Service defect: 'A - FUEL SYSTEM - FUEL LEAK ON BUS RAIL REPAIRED.'.
**19.03.1992** Service defect: 'A - MAIN GENERATOR BRUSHES - MAIN GEN. CLEANED.-A/C BRUSHES STICKING ON BOTTOM.'.
**21.04.1992** Service defect: 'UN - GENERAL - DOOR HANDLE REPLACED,A/C BROKEN.'.
**21.04.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR TANK STRAP REWELDED.'.
**22.05.1992** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR ADJUSTED,A/C U/S.'.
**22.05.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. GAUGE REPAIRED,A/C U/S. M.R.SAFETY VALVES REPLACED.'.
**22.06.1992** Service defect: 'C - NO.6 T/M TO CHANGE.-NO.3 XLE HAS RUST SPOT ON'.
**22.06.1992** Service defect: 'C - JOURNAL.'.
**11.12.1992** Service defect: 'UN - BOGIES TO BE FITTED'.
**11.12.1992** Service defect: 'UN - MISSING PARTS TO BE REPLACED'.
**06.01.1993** Service defect: 'UN - BOGIE - LOCO LIFTED UNTO BOGIES & MINOR REPAIRS TO BOGIES COMPLETED.SAFETY BRACKETS FITTED.'.
**06.01.1993** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - FULL WICK INSPECTION COMPLETED, R1,R2 & L6 WICKS CHANGED,A/CDIRTY.'.
**06.01.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR 'E' TYPE FITTED TO ENGINE.'.
**08.01.1993** Service defect: 'UN - VIGILANCE - 70LB SUPPLY VALVE REPLACED,VIG CHECKED OK.'.
**11.01.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAK AT ELBOW BY WATER PUMP REPAIRED.'.
**05.02.1993** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK AT FITTING AT TURBO REPAIRED. LOCO REFILLED WITH RAW WATER.'.
**06.04.1993** Service defect: 'A - CONTACTOR EP VALVES - EP VALVE REPLACED ON S2,1 CONTACTOR,A/C LEAKING.'.
**06.04.1993** Service defect: 'A - ENGINE - 2 MARMONS REPAIRED, 2 VICTAULICS REPAIRED & 1 DRESSER REPAIRED'.
**06.04.1993** Service defect: 'A - MAIN GENERATOR - GENERATOR CLEANED & INSPECTED,A/C OIL RESIDUE THROUGHOUT. FINE STONE RESURFACER APPLIED TO COMMUTATOR.'.
**06.04.1993** Service defect: 'A - MAIN GENERATOR BRUSHES - ALL MAIN GEN BRUSHES REPLACED.'.

**05.05.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING BETWEEN SPEEDO T/B & T/B3 REPLACED, A/C O/C. SPEEDO CHECKED OK.'.
**30.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - LI WICK CHANGED & NEW OIL, A/C SUSPECT INNER GEARCASE SEAL.'.
**30.06.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - LOAD METER REPLACED.'.
**30.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - L4 SAND HOSE CHANGED.'.
**24.09.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - TRAIN LINE MODS. DONE.'.
**24.09.1993** Service defect: 'A - EXHAUST - EXHAUST BOLTS TIGHTENED, A/C LEAKS.'.
**24.09.1993** Service defect: 'A - VIGILANCE - VIGILANCE REPAIRED, A/C WOULD NOT GO OFF.'.
**24.09.1993** Service defect: 'A - D/B RHEOSTAT IN POOR CONDITION, TO MONITOR.25/9.'.
**25.11.1993** Service defect: 'UN - BOGIE - TRIMOUNT ELEPHANT FEET - ALL FOUR REWELDED, A/C CRACKS.'.
**25.11.1993** Service defect: 'UN - GENERAL - HAND BRAKE CHAIN REPAIRED.'.
**25.11.1993** Service defect: 'UN - OTHER BODY REPAIRS - WINDOWS REPLACED.'.
**25.11.1993** Service defect: 'UN - TRACTION MOTOR - ALL LUGS ON T/M'S + UNDERFRAME CHECKED & REPLACED WHERE NECESSARY.'.
**10.12.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L1 WICK CHANGED A/C CRATER IN WICK JOURNAL.'.
**10.12.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - RT6 DIODE FOUND SHORTED OUT. REPLACED AND CHECKED OK.'.
**10.12.1993** Service defect: 'C - GENERAL - R1 YOKE/BRIDGE SPRING CHANGED A/C BROKEN.'.
**10.12.1993** Service defect: 'C - GENERAL - SLUDGE PAN UNDER ENGINE DRAINED AND AREA UNDER COMPRESSOR AND ENGINE STEAM CLEANED.'.
**10.01.1994** Service defect: 'UN - THIS LOCO HAS BEEN STORED.11.1.94.'.

**606**

Details: locomotive '606 E' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.6m
**Tare Weight:** 112.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $250450
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-3
**Date Built:** 04.01.1970
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**Remarks:** STORED PUG 14.02.94
**BSG Code:** LSAP

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 26.04.1989 | | |
| SW Service Mileage: | 303145 KM | SW Service Date: | 15.08.1989 |
| A Service Mileage: | 509988 KM | A Service Date: | 22.10.1993 |
| B Service Mileage: | 489602 KM | B Service Date: | 29.07.1993 |
| C Service Mileage: | 448325 KM | C Service Date: | 18.02.1993 |
| D Service Mileage: | 325347 KM | D Service Date: | 20.11.1991 |
| F Service Mileage: | 449455 KM | A Service Date: | 26.04.1989 |
| WT Service Mileage: | 792404 KM | WT Service Date: | 11.08.1993 |
| US Service Mileage: | 848642 KM | A Service Date: | 09.12.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**19.07.1989** Service defect: 'TS - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.R1 WICK & OIL CHANGED A/C DIRTY.'.
**19.07.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE REPLACED A/C WORN GEAR TEETH.'.
**19.07.1989** Service defect: 'TS - TRACTION MOTOR - BOGIES & TM'S REPLACED.A/C TM BEARING CLEARANCES.'.
**21.07.1989** Service defect: 'UN - BOGIE - BEARING FAILURE - R.1 SUPPORT BEARING & WICK REPLACED.'.
**21.07.1989** Service defect: 'UN - R.1 SUPPORT BEARING TO CHECK A/C BEARING REPLACED.'.
**24.07.1989** Service defect: 'SW - BOGIE - NO1 AXLE CHECKED OK.'.
**25.07.1989** Service defect: 'UN - BOGIE - SUPPORT CHECK - NO.1 SUPPORT BEARING CHECKED OK.'.
**26.07.1989** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.'.
**07.08.1989** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - REPLACED LUG IN TERMINAL BOARD FOR AXLE GENERATOR A/C OPEN CIRCUIT.'.
**15.08.1989** Service defect: 'SW - GENERAL - CAB FLOOR AROUND 2 MAN CREW DESK REPAIRED.'.
**06.09.1989** Service defect: 'UN - AUXILLARY MACHINES - BLOWER BELTS ADJUSTED.'.
**04.10.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BLOWER MOTOR BLADES CHANGED.'.
**10.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - KETTLE POWER POINT REPLACED.HEATER ELEMENT REPLACED.'.
**23.10.1989** Service defect: 'TS - DYNAMIC BRAKE - DYN BRAKE SET UP.'.
**23.10.1989** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - LAR WIRES REPLACED A/C OFF.'.
**23.10.1989** Service defect: 'TS - MAIN GENERATOR FLASHOVER - FLASH ON M/GEN A/C BRUSH HOLDER,REPLACED.V RING,COMM CLEANEDP-2MEG.'.
**02.11.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVENOR LEAKING AT SIGHT GLASS - GASKET REPLACED CHECKED OK'.
**12.11.1989** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1 WICK REPLACED.'.
**08.12.1989** Service defect: 'TS - FUEL SYSTEM - FUEL PUMP & CIRCUIT BREAKER BOOKED FAULTY.F/PUMP & CIRCUIT BREAKER CHECKED OK IN DEPOT.'.
**16.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L4 WICK & OIL CHANGED.'.
**08.03.1990** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1,L3,L4 WICKS REPLACED.'.
**09.03.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO

CHANGED.'.
**14.03.1990** Service defect: 'UN - GENERAL LOSS OF POWER - NO POWER AFTER D/BRAKE.AUXILLARY CONTACTS CLEANED & LUBRICA-TED TESTED OK IN DEPOT.'.
**19.03.1990** Service defect: 'TS - COOLING SYSTEM - NEW COPPER PIPE ABOVE COMPRESSOR RHS REPLACED.'.
**28.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR FLAT WHEELS.CHECKED OK TO RUN.'.
**01.10.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 2 GROUND RELAYS / NO POS SIGN P= 300K'.
**14.10.1990** Service defect: 'UN - TRACTION MOTOR - NO.2 TRACTION MOTOR CHANGED A/C EARTH ON FIELD.'.
**14.11.1990** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR REPLACED.'.
**07.06.1991** Service defect: 'UN - BOGIE - PLACED ON BOGIES,AIR HOSES & SAND PIPES CONNECTED.ALL T/M'SCONNECTED.'.
**07.06.1991** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 2 BRAKE GRIDS,(TOP LEFT)REPLACED.'.
**07.06.1991** Service defect: 'UN - GENERAL - 2 WINDSCREEN WIPER ASSEMBLYS FOR CAB DOORS REPLACED.2 MIRRORS REPLACED.HAND BRAKE HANDLE REPLACED.'.
**07.06.1991** Service defect: 'UN - GENERAL - LOAD TESTED AT 2000HP.OK.'.
**07.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 135PSI SAFETY VALVES - 75PSI SUPPLY VALVE FOR VIG REPLACED.'.
**11.06.1991** Service defect: 'UN - GENERAL - CAB EQUIPMENT & REPAIRS EFFECTED.'.
**20.06.1991** Service defect: 'A - FUEL SYSTEM INJECTORS - R1,R5,L1 & L3 INJECTORS CHANGED.'.
**20.06.1991** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - HORN-HOOTER PIPE REPLACED.'.
**20.06.1991** Service defect: 'A - TAP REQUIRED FOR HAND BASIN.21/6.'.
**08.07.1991** Service defect: 'UN - DYNAMIC BRAKE - 2 BRAKE GRIDS ON EACH SIDE REPLACED.'.
**08.07.1991** Service defect: 'UN - DYNAMIC BRAKE SETTING - D/BRAKE SET UP.'.
**08.07.1991** Service defect: 'UN - TRACTION MOTOR - NO 5 T/MOTOR CABLES REPAIRED.NO'S 1 & 3 CABLES TIED UP OUT OF THE WAY.'.
**11.09.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE GRIDS INSTALLED.'.
**11.09.1991** Service defect: 'UN - DYNAMIC BRAKE SETTING - DYN/BRAKE SET UPS CORRECTED,A/C DIRTY POTS ON FEEDBACK. LOCO OK ON TRIAL RUN.'.
**09.11.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BROKEN WIRE PCS FIXED,A/C GOV- NO REV INCREASE.'.
**20.11.1991** Service defect: 'D - FUEL SYSTEM INJECTORS - L3 &R1 INJECTORS CHANGED.'.
**31.01.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORN PIPE REPAIRED.'.
**15.05.1992** Service defect: 'UN - BOGIE - L5 SLACK ADJUSTER & HANGER REPLACED (LONG ADJUSTER).'.
**24.06.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - TRAIN LINE RESISTOR REPLACED.A/C MU STOP BUTTON NOT WORKING.'.
**17.07.1992** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 3 GRIDS REPLACED A/C BUNT OUT.'.
**17.07.1992** Service defect: 'UN - DYNAMIC BRAKE SETTING - DYN. BRAKE SET UP AND TESTED OK.'.
**02.09.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE REPAIRS AND MODS. ARE COMPLETED.'.
**02.09.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - OPR INTERLOCK WIRING CORRECTED.'.
**02.09.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - SQUARE 'D' PRESSURE SWITCH REPLACED.'.
**10.09.1992** Service defect: 'B - AUXILLARY MACHINES - AUX. GENERATOR VEED OUT A/C SLIGHT COPPER DRAG. EXCITER CLEANED .'.
**10.09.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L3, L4, L5 WICKS CHANGED.'.
**10.09.1992** Service defect: 'B - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED A/C SEALS U/S.'.
**10.09.1992** Service defect: 'B - FUEL SYSTEM - FUEL LINE FROM GAUGE REPAIRED.'.
**10.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'A' END AUTO COUPLER BOLTS TIGHTENED.'.
**10.09.1992** Service defect: 'B - WINDOW WASHER NOT WORKING.NIL IN STOCK.11/9/92.'.
**06.10.1992** Service defect: 'UN - GENERAL LOSS OF POWER - TRIAL RUN, A/C SHUTTING DOWN. CHECKED OK.'.
**03.12.1992** Service defect: 'A - COOLING SYSTEM - VICTOLIC CHANGED & WATER PUMP LEAK REPAIRED.'.
**03.12.1992** Service defect: 'A - DYNAMIC BRAKE - DYN/BRAKE GRIDS & FANS INSTALLED. EBC COIL REPLACED.'.
**03.12.1992** Service defect: 'A - GENERAL - O/S W/SCREEN WASHER HOSE REPLACED.'.
**03.12.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R8 SAND TRAP CLEARED.'.
**04.02.1993** Service defect: 'TS - ENGINE GOVERNOR ELECTRICAL - GOVERNOR PLUG REPAIRED, A/C LOCO SHUTTING DOWN.'.
**18.02.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - 'A'END RECEPTACLE REPAIRED, A/C LID CRACKED.'.
**18.02.1993** Service defect: 'C - LUBRICATING SYSTEM - OIL STRAINER GASKET REPLACED.'.
**18.02.1993** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - THROAT PLATES 'A'& 'B' END REPAIRED.'.
**23.03.1993** Service defect: 'TS - ENGINE GOVERNOR ELECTRICAL - GOVERNOR PLUG RE-ASSEMBLED CORRECTLY, CHECKED OK. LOOK ON TRIAL RUN.'.
**13.05.1993** Service defect: 'A - BOGIE - 'B'END CARRIER PLATES TIGHTENED,A/C LOOSE. R2 AXLE BOX PEDESTAL PLATES WELDED.'.
**13.05.1993** Service defect: 'A - COOLING SYSTEM RADIATOR - 1 MARMON COUPLING (RADIATOR ROOM) TIGHTENED,A/C LEAKING.'.
**13.05.1993** Service defect: 'A - ENGINE - 2 OVERHEAD VICTAULICS CHANGED,A/C LEAKING.'.
**13.05.1993** Service defect: 'A - ENGINE WATER LEAK - WATER SUPPLY TO TURBO FITTING REPAIRED,A/C LEAKING.'.
**13.05.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE AIR LEAKS REPAIRED.'.

**25.05.1993** Service defect: 'TS - ENGINE - ALL EXHAUST TO HEAD BOLTS TIGHTENED,A/C LOOSE.'.
**25.05.1993** Service defect: 'TS - LUBRICATING SYSTEM - LOW OIL SHUT DOWN COCK CLOSED & CHECKED OK,A/C FOUND OPEN CAUSING SHUT DOWN.'.
**28.05.1993** Service defect: 'UN - ENGINE - OVER SPEED RESET A/C NOT SHUTTING ENGINE DOWN.'.
**09.06.1993** Service defect: 'UN - GENERAL - CRACKS IN FLOOR REWELDED.'.
**09.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR STRAPS REWELDED.'.
**29.07.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ONE BRUSH HOLDER CELL REPLACED IN MAIN GEN.'.
**29.07.1993** Service defect: 'B - AUX GEN COMM TO MONITOR, A/C SLIGHT COPPER DRAG ON'.
**29.07.1993** Service defect: 'B - BEARING END.29/7. DRIVERS SEAT BASE TO REPLACE,A/C'.
**29.07.1993** Service defect: 'B - RIPPED.'.
**14.08.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - NEG. EARTH ON CONTROL. SPEEDO GLOBE SHORTING TO GROUND.REPA-IRED.'.
**14.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 603 AND 606 JUMPERED TOGETHER AND CHECKED OK.'.
**06.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPAIRS - DIAPHRAGM REPLACED, CHECKED OK'.
**18.09.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - REPAIRED MAIN GEN COMPARTMENT LIGHT FITTING.'.
**18.09.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TWO SMALL ELBOWS ON TOP SIDE OF TURBO REPAIRED, A/C BROKEN.'.
**18.09.1993** Service defect: 'TS - GENERAL - D/S SEAT BASE REPLACED.'.
**23.09.1993** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - LOWERED 'A'END JUMPER PLUG (MODIFIED),TESTED WITH ANOTHER. LOCO OK.'.
**23.09.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - NEW 'T'PIECE FITTED TO TURBO. FELT ON TURBO INLET REPLACED.'.
**23.09.1993** Service defect: 'UN - ENGINE WATER LEAK - BOTTOM EXHAUST JOINT OBS/SIDE REPLACED, A/C LEAKS.'.
**27.09.1993** Service defect: 'TS - ENGINE GOVERNOR - GOVERNOR REPLACED, A/C SHUTTING DOWN.'.
**27.09.1993** Service defect: 'TS - OTHER BODY REPAIRS - DRIVERS SIDE/WINDOW REPLACED, A/C BROKEN.'.
**30.09.1993** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - 5G WIRE REMOVED AND TAPED UP FROM O.P.R. RELAY. REDUCED REVOLUTIONS MODIFICATIONS NOW WORKING OK, A/C OIL PRESSURE'.
**14.10.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - L5 HEAD CHANGED A/C VALVES WENT MISSING.'.
**14.10.1993** Service defect: 'UN - ENGINE PISTON - L5 PISTON CHANGED A/C DAMAGED BY BROKEN VALVES.'.
**14.10.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER CHANGED A/C FAN BLADES DAMAGED BY BROKEN VALVES. TURBO RUN IN AND SENT TO TRAFFIC.'.
**22.10.1993** Service defect: 'A - ELECT. MISC. - GAUGES & INSTRUMENTS - FLOW METER REPLACED. CHECKED OK.'.
**09.12.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL - DOME LIGHTS NEG DOWN TO EARTH - REPAIRED.'.
**09.12.1993** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION COILS CHECKED AND REPAIRED AS NECESSARY.'.
**09.12.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED.'.
**09.12.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ISOLATING COCK REPLACED.'.
**09.12.1993** Service defect: 'UN - NO 1 AND 2 GEAR CASES CHECKED FOR LEAKS, OK - TO'.
**09.12.1993** Service defect: 'UN - BE MONITORED.9/12.'.

**607**

Details: locomotive '607 N' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.6m
**Tare Weight:** 112.8tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $250450
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-3
**Date Built:** 02.04.1965
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED PUG 14.02.94;EX 600
**BSG Code:** LSAP

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 03.03.1997 | | |
| Last Lift: | 11.12.1990 | | |
| SW Service Mileage: | 288167 KM | SW Service Date: | 03.06.1994 |
| A Service Mileage: | 420979 KM | A Service Date: | 11.11.1996 |
| B Service Mileage: | 387325 KM | B Service Date: | 02.08.1996 |
| C Service Mileage: | 300314 KM | C Service Date: | 01.02.1995 |
| D Service Mileage: | 235459 KM | D Service Date: | 08.07.1993 |
| E Service Mileage: | 332405 KM | A Service Date: | 13.01.1996 |
| F Service Mileage: | 488932 KM | A Service Date: | 11.12.1990 |
| WT Service Mileage: | 408352 KM | WT Service Date: | 25.09.1989 |
| US Service Mileage: | 445689 KM | A Service Date: | 22.01.1997 |

**24.07.1986** Alteration complete 'RENUMBER INDIVIDUAL LOCOMOTIVES AND RAIL CARS AS LISTED. 500 TO 534, 600 TO 607, 700 TO 706, 800 TO 810, 830 TO 875, 930 TO 967 250 TO 261, 280 TO 283 & 100 TO 107 (RS4140)'.
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**11.07.1989** Service defect: ‘TS - ELECTRICAL MISCELLANEOUS - GLPR RESISTOR REPAIRED A/C OPEN CIRCUIT.’.
**11.07.1989** Service defect: ‘TS - MAIN GENERATOR - 2 BRUSHES REPLACED IN MAIN GEN.INSULATORS CLEANED.’.
**11.07.1989** Service defect: ‘TS - TRACTION MOTOR FLASHOVER - BOOKED FOR GROUND RELAYS.NO3 TM CABLE RUBBED THRU ONTO GEARBOX.P200K.’.
**14.07.1989** Service defect: ‘UN - DYNAMIC BRAKE - D/BRAKE HANDLE FILED & COGS LUBRICATED A/C HARD TO OPERATE.’.
**18.07.1989** Service defect: ‘C - DYNAMIC BRAKE - DYN BRAKE BOOKED AS‘FAILED’.CHECKED IN DEPOT,UNABLE TO FAULT’.
**21.07.1989** Service defect: ‘UN - ELECT. MISC. - GAUGES & INSTRUMENTS - ‘A‘SIDE LOAD METER REPLACED.’.
**23.08.1989** Service defect: ‘UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED A/C INLET CASING CRACKED.(IN 10874).’.
**23.08.1989** Service defect: ‘UN - EXHAUST - L1,L2 INLET GASKETS REPLACED.’.
**30.08.1989** Service defect: ‘UN - EXHAUST - SHORT EXHAUST CONNECTOR CHANGED.’.
**30.08.1989** Service defect: ‘UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C HIGH VISCOSITY.OIL FILTERS CHANGED.’.
**01.09.1989** Service defect: ‘UN - ENGINE CYLINDER HEADS - L1 CYL HEAD CHANGED A/C CRACKED EXHAUST VALVE.’.
**12.09.1989** Service defect: ‘A - COOLING SYSTEM - BOTH VICTAULICS TO RADIATORS REPLACED.’.
**15.09.1989** Service defect: ‘UN - FUEL SYSTEM LINES - L3 HP FUEL LINE REPLACED.’.
**19.09.1989** Service defect: ‘UN - EXHAUST - LONG EXHAUST CONNECTOR REPLACED.’.
**19.09.1989** Service defect: ‘UN - R4,5,6 EXHAUST MANIFOLD CRACKED*EXHAUST GASKETS TO’.
**19.09.1989** Service defect: ‘UN - REPLACE.19/9*’.
**25.09.1989** Service defect: ‘WT - SENT TO MILE END FOR BRAKE ADJUSTMENT’.
**10.10.1989** Service defect: ‘TS - DYNAMIC BRAKE - EBC AUX CONTACT BLOCK FAULTY.REPLACED AUX CONTACT ASSEMBLY. 61K WIRE TO ASSEMBLY REPLACED A/C BURNT OUT.’.
**21.10.1989** Service defect: ‘UN - TRACTION MOTOR FLASHOVER - BRUSHES CHANGED IN NO 4 & 6 TM’S A/C FLASH.’.
**30.11.1989** Service defect: ‘UN - BOGIE - BOTH BOGIES CHANGED.’.
**30.11.1989** Service defect: ‘UN - TRACTION MOTOR - ALL TM’S CHANGED.(IN 290666,280898,7384552,7362643,7384056, 7378758).’.
**08.12.1989** Service defect: ‘UN - DYNAMIC BRAKE - LHS D/BRAKE GRIDS REPLACED.’.
**22.12.1989** Service defect: ‘UN - FUEL SYSTEM LINES - L2 HIGH PRESSURE FUEL LINE CHANGED.’.
**22.12.1989** Service defect: ‘UN - SPEEDO TO CHANGE.22/12*’.
**14.01.1990** Service defect: ‘UN - BOGIE - EXCESS TRAVEL - L.2 BRAKE TRAVEL ADJUSTED.’.
**14.01.1990** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER FAULTY - ‘B‘END E.P.VALVE REPAIRED.’.
**23.01.1990** Service defect: ‘UN - ELECTRICAL MISC. HEADLIGHT - ‘A‘END HEADLIGHT CHANGED.’.
**23.01.1990** Service defect: ‘UN - FUEL SYSTEM LINES - L2 FUEL LINE REPLACED.’.
**23.01.1990** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - ‘A‘END SANDING MAGNET VALVE CHANGED.’.
**22.02.1990** Service defect: ‘A - AUXILLARY MACHINES - AUX GEN VEED OUT & CURED.’.
**22.02.1990** Service defect: ‘A - MAIN GENERATOR - MAIN GEN VEED OUT & CURED.’.
**01.03.1990** Service defect: ‘UN - FUEL SYSTEM - FUEL PUMP TIMING CHECKED.FUEL RACKS CHECKED FOR FULL FUEL. ENGINE SPEED CHECKED.’.
**08.03.1990** Service defect: ‘TS - NO FAULT FOUND - NO POWER - UNABLE TO FAULT LOCO , OK FOR TRAFFIC.’.
**31.03.1990** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - NO1 WHEELSET CHANGED.’.
**31.03.1990** Service defect: ‘UN - TRACTION MOTOR - NO1 TM CHANGED A/C SUSPENSION BEARING.(IN 290677 OUT 290666)’.
**06.04.1990** Service defect: ‘UN - BOGIE MAINTENANCE - WICKS - NO1 WICK CHECKED OK.’.
**06.04.1990** Service defect: ‘UN - MAIN GENERATOR FLASHOVER - SLIGHT FLASH ON MAIN GEN CLEANED,1 BRUSH REPLACED A/C FRAYEDBRAID.’.
**06.04.1990** Service defect: ‘UN - TRACTION MOTOR FLASHOVER - 5 BRUSHES REPLACED IN NO 2 TM A/C FRAYED BRAID.’.
**26.04.1990** Service defect: ‘UN - ENGINE GOVERNOR - ENGINE GOVERNOR REPLACED.’.
**11.12.1990** Service defect: ‘F - GENERAL - F SERVICE CARRIED OUT AS PER SERVICE SHEETS AIR CONDITIONER FITTED,EXTRA RADIATOR FITTED.’.
**11.12.1990** Service defect: ‘F - BOGIES TO FIT,TRANSITION TO SET.’.
**17.12.1990** Service defect: ‘SW - BOGIE - STANDARD GAUGE BOGIES FITTED.’.
**15.04.1991** Service defect: ‘UN - BOGIE - AXLE GENERATOR CONNECTED ELECTRICALLY.’.
**15.04.1991** Service defect: ‘UN - MECHANICAL EQUIPMENT BRAKE VALVE - EMERGENCY BRAKE VALVE PROBLEM REPAIRED,A/C DEAD ENGINE DEVICE CLOSED.BRAKES CHECKED FOR OPERATION,OK.’.
**15.04.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHECKED OK.’.
**16.04.1991** Service defect: ‘UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - ALL WICKS CHECKED OK.’.
**16.04.1991** Service defect: ‘UN - ELECTRICAL MAINTENANCE -WIRING - TRAIN/LINE FAULT - 8&9 WIRES CORRECTED.(‘A‘END)’.
**16.04.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN ‘TEE’ PIECE - M/RES.PIPE ‘A‘END REPAIRED.’.
**17.04.1991** Service defect: ‘UN - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.’.
**17.04.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHECKED,NO FAULT FOUND.’.
**18.04.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED,A/C FLUCTUATING BADLY + CLOCK NOT WORKING.’.

**26.04.1991** Service defect: 'UN - DYNAMIC BRAKE SETTING - CR3 CONNECTION ON BCR2 LOOSE - REMOVED CONNECTION,TIGHTENED CONNECTIONS ONBCR1,A/C D/BRAKE SURGING.'.
**03.05.1991** Service defect: 'UN - DYNAMIC BRAKE - LOCO CHECKED IN DEPOT,OK.CLAMP METER USED & LOCO RUN IN D/B OK.TRAIN LINE PINS CHECKED OK ON BOTH ENDS WHEN IN D/B.'.
**30.05.1991** Service defect: 'UN - GENERAL - WINDOWS & DOORS SEALED,CABLE DUCT FROM ENGINE ROOM SEALED, HOLES BEHIND AIR/CON SEALED,CAB SEALED WHERE NECESSARY.'.
**12.06.1991** Service defect: 'TS - COOLING SYSTEM WATER PUMP - WATER PUMP CHECKED OK,NO FAULT FOUND.'.
**04.07.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED,A/C CLICKING NOISE WHEN 'AUX GEN FIELD' IS SWITCHED ON.'.
**04.07.1991** Service defect: 'TS - ENGINE CYLINDER HEADS - L2 HEAD REPLACED.'.
**04.07.1991** Service defect: 'TS - GENERAL - CAB SIDE WINDOWS RESEALED.'.
**04.07.1991** Service defect: 'TS - GENERAL LOSS OF POWER - JUMPER REPLACED IN DUMMY RECEPTICLE,LOCO CHECKED OK,A/C WOULD NOT POWER UP.'.
**04.07.1991** Service defect: 'TS - LUBRICATING SYSTEM - ENGINE OIL CHANGED.ENGINE FILTER CHANGED.'.
**16.07.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - L3 & L4 HEADS CHANGED, A/C CRACKED.WATER PRESSURE,10PSI AT IDLE,48PSI AT NOTCH 8.'.
**16.07.1991** Service defect: 'UN - NOISE IN OIL PUMP WHEN STARTED,WENT AWAY,TO BE'.
**16.07.1991** Service defect: 'UN - MONITERED.16/7.'.
**05.08.1991** Service defect: 'UN - NO FAULT FOUND - SENT ON TRIAL RUN, A/C GR'S.NO FAULT FOUND.'.
**16.08.1991** Service defect: 'SW - OTHER BODY REPAIRS - AUTOMATIC FUEL FILLER CUT OFF REPAIRED.'.
**19.09.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - INSULATION BREAK FOUND ON A CABLE FROM NO 4 T/MOTOR,TEMP REPEFFECTED,A/C GR'S.'.
**23.10.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CHANGED ENGINE RUN RELAY CONTACTOR,A/C FAULTY ENGINE SPEEDS.'.
**27.11.1991** Service defect: 'SW - FUEL SYSTEM - FUEL LEAK REPAIRED.'.
**27.11.1991** Service defect: 'SW - GENERAL - WHISTLE CHORD REPLACED.'.
**11.12.1991** Service defect: 'A - DYNAMIC BRAKE - DYN/BRAKE SET UP.'.
**11.12.1991** Service defect: 'A - FUEL SYSTEM - FUEL CUT OFF VALVE REPLACED.'.
**11.12.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDER BUTTON REPAIRED.'.
**11.12.1991** Service defect: 'A - REVS SLOW TO COME BACK TO IDLE.11/12.'.
**16.12.1991** Service defect: 'UN - GENERAL LOSS OF POWER - AMX FUEL ON RACK ADJUSTED,A/C LOW REVS.'.
**16.12.1991** Service defect: 'UN - LUBRICATING SYSTEM LOW OIL PRESSURE - LOW OIL PRESSURE ADJUSTED,A/C LOW REVS.'.
**10.01.1992** Service defect: 'TS - ENGINE CYLINDER HEADS - R3 HEAD REPAIRS COMPLETED.'.
**10.01.1992** Service defect: 'TS - MECHANICAL EQUIPMENT - REAR T/M BLOWER BELTS ADJUSTED.-BEARING GREASED AND CHECKED OK.'.
**12.02.1992** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - STEEL ROD REMOVED,VANE MODIFIED,A/C EARTH FAULT IN GRIDS.'.
**06.03.1992** Service defect: 'C - FUEL SYSTEM INJECTORS - FUEL INJECTOR COVER REPLACED OK.'.
**26.03.1992** Service defect: 'TS - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER REPLACED.-EX 604.'.
**26.03.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE - REVERSER - REVERSER RE-BUILT AND RE-POSITIONED IN 607.A/C EXTENSIVE BURN ON CONTACTOR FACES.'.
**26.03.1992** Service defect: 'TS - MAIN GENERATOR - MAIN GEN. V/RING PAINTED.'.
**07.04.1992** Service defect: 'TS - LUBRICATING SYSTEM LOW OIL PRESSURE - RESET BOTH RELIEF VALVES.O.P. IDLE 60 PSI.NOTCH 8,90 PSI. SEQUENCE TESTED OK.'.
**10.04.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - LOW OIL TIMER SWITCH REPLACED,A/C TRIPPING.PNEUMATIC CONTROL SWITCH CHECKED OK.'.
**12.05.1992** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'COUPLER WEAR PLATE REWELDED.'.
**12.05.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. & B.P. HOSES REPLACED 'A'END.'.
**12.05.1992** Service defect: 'A - 'A'END COUPLER TO MONITOR,A/C CRACKED.12/5.'.
**12.05.1992** Service defect: 'A - F/M'S SIDE MIRROR MISSING,A/C NIL STOCK.12/5.'.
**13.05.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 4 CYLINDER HEAD REPLACED,A/C WATER LEAK.'.
**03.06.1992** Service defect: 'TS - WHEELSLIP - WHEELSLIP-SEVERAL AUXILLARY TIPS REPLACED,A/C BURNT.TEST RUN,UNABLE TO FAULT.'.
**10.06.1992** Service defect: 'TS - WHEELSLIP - AUX.CONTACTS P2 & P31 CHANGED'.
**15.06.1992** Service defect: 'UN - WHEELSLIP - WSRI.REPAIRED WITH BRAZING ON IRON CORE. TRAIL RUN.A/C WHEEL SLIP AFTER TRANSITION.'.
**27.07.1992** Service defect: 'B - AIR CONDITIONING - AIR CON. HATCH REPAIRED.'.
**27.07.1992** Service defect: 'B - DYNAMIC BRAKE - DYN. BRAKE POT REPLACED.A/C OPEN CIRCUIT.'.
**27.07.1992** Service defect: 'B - MAIN GENERATOR - MAIN GEN. UNDERCUT AND CURED.-V-RING PAINTED-PUT STONE ON COMM.CHECKS OK FOR FLATS.VEED OUT.'.
**27.07.1992** Service defect: 'B - MAIN GENERATOR BRUSHES - 12 BRUSHES CHANGED.'.
**27.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER CHANGED.'.
**31.07.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN.BRAKE RHEOSTAT REPLACED.-AMPLIFIER CHANGED. CIRCUIT CHECKED OK.'.
**08.12.1992** Service defect: 'UN - DYNAMIC BRAKE - GRID BLOWN - GRID REPLACED & OTHERS INSPECTED OK. GRIDS REPLACED, A/C SAGGING. TRIAL RUN OK.'.
**15.12.1992** Service defect: 'TS - MAIN GENERATOR - MAIN GEN CLEANED UP - VEE RING PAINTED, RISERS CLEANED UP & BASE OF RISERS PAINTED. ALL BRUSH HOLDERS REPAIRED.'.
**05.01.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INTAKE

FILTERS REPLACED.'.

**05.01.1993** Service defect: 'UN - GENERAL - AIR FRIDGE REPLACED EX 704 'B'END & TESTED OK.'.

**05.01.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN/RES AIR LEAK REPAIRED.'.

**13.01.1993** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER/YOKE PACKAGE AND FOLLEWER BLOCK REPLACED. POCKET REWORKED TO WITHIN GAUGE.'.

**15.02.1993** Service defect: 'TS - BOGIE - BOGIE SWAP WITH 601 COMPLETED, A/C FLAT WHEELS.'.

**19.02.1993** Service defect: 'TS - VIGILANCE - VIG/CONTROL SYSTEM CHECKED OK.'.

**24.02.1993** Service defect: 'SW - ENGINE WATER LEAK - WATER LEAKS CHECKED FOR,ONLY FOUND SPLIT IN HEADER TANK.'.

**24.02.1993** Service defect: 'SW - OTHER BODY REPAIRS - LOCO BODY WASHED & ENGINE ROOM WASHED OUT.'.

**08.07.1993** Service defect: 'D - BOGIE - R1 BRAKE CYLINDER BRAKE RIGGING REPAIRED TO ALLOW FREE BRAKEMOVEMENT,CHECKED OK.'.

**08.07.1993** Service defect: 'D - COOLING SYSTEM - WATER SIGHT GLASS REPLACED.'.

**08.07.1993** Service defect: 'D - EXHAUST - ALL EXHAUST BOLTS ON ENGINE & TURBO TIGHTENED. LHS TOP EXHAUST PIPE - CONCERTINA TO MANIFOLD REPLACED,A/C CRACKED.'.

**08.07.1993** Service defect: 'D - FUEL SYSTEM PUMP - ALL FUEL PUMP BANJO BOLTS TIGHTENED,A/C SEVERAL LEAKING.'.

**08.07.1993** Service defect: 'D - LUBRICATING SYSTEM - LARGE OIL LEAK NEAR HEAT EXCHANGER REPAIRED.'.

**08.07.1993** Service defect: 'D - MAIN GENERATOR BRUSHES - 11 MAIN GEN BRUSHES REPLACED.'.

**18.08.1993** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR HEADER TANK CRACK REPAIRED BY CUTTING A HOLE IN THETOP OF THE TANK AND WELDING IT FROM THE INSIDE.'.

**18.08.1993** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK REPAIRED ON MARMON COUPLING IN ENG. ROOM. WATER LEAK REPAIRED ABOVE COOLING FAN.'.

**07.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER REPLACED, A/C CRACKED.'.

**22.09.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2 & R6 WICKS & OIL CHANGED, A/C CRATER PRESENT.'.

**23.09.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BOOSTER AIR GAUGE REPLACED, A/C NOT REGISTERING.'.

**23.09.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**14.10.1993** Service defect: 'UN - ENGINE - CRANK CASE EXHAUSTER GASKET REPLACED A/C LEAKING.'.

**14.10.1993** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED A/C CRACKED.'.

**19.11.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WASHED AND TOPPED UP.'.

**19.11.1993** Service defect: 'UN - BOGIE - NO 1 BRAKE CYLINDER OBS/SIDE REPLACED.'.

**19.11.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**18.12.1993** Service defect: 'C - AIR CONDITIONING - AIR-CON. BELTS REPLACED.'.

**18.12.1993** Service defect: 'C - BOGIE - 13 BRAKE BLOCKS CHANGED.'.

**18.12.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L1, L2, L3, L5, R1, R2, R3, R4 WICKS CHANGED.'.

**18.12.1993** Service defect: 'C - GENERAL - ENG. AIR INTAKE FILTER MOUNTING BRACKETS RE-WELDED.'.

**18.12.1993** Service defect: 'C - OTHER BODY REPAIRS - NON SLIP TAPE FITTED TO STEPS. CRACKS IN ROOF WELDED AND PAINTED.'.

**18.12.1993** Service defect: 'C - TRACTION MOTOR - NO.6 T/M CHANGED, A/C TOP BRUSH HOLDER FELL ON COMM. COMM. U/S.'.

**22.12.1993** Service defect: 'UN - GENERAL - KNUCKLES REPLACED A/C WORN.'.

**22.12.1993** Service defect: 'UN - WHEELSLIP - CONSTANT WHEEL-SLIP, NO.6 TRACTION MOTOR U/S. ONLY JUST FITTED NO.6. RE-CON. EX ISLINGTON.'.

**03.06.1994** Service defect: 'A - BOGIE - 'A'END L/H SLACK ADJUSTERS REPLACED. 'B'END BOGIE CUT OUT REPLACED.'.

**03.06.1994** Service defect: 'A - FUEL SYSTEM LINES - FUEL LINE REPAIRED, A/C LEAKING.'.

**03.06.1994** Service defect: 'A - REAR SANDER VALVE TO MONITOR, A/C AIR LEAK.'.

**23.06.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN COMPARTMENT WASHED - MERMON COUPLING TIGHTENED, A/C LOOSE CAUSING LEAK.'.

### 621

Details: locomotive '621 V' in AN 'Mainland Division'.

**Owner:** A.R.H.S.
**Length Over Headstocks:** 19.7m
**Tare Weight:** 142tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** 4-6-2
**Run Restriction:** Restricted to Broad Gauge only
**Date Built:** 07.09.1936
**Operating System:** ARHS
**Intended Use:** MAINLINE
**Installed Power:** 100kw
**Remarks:** A.R.H.S. STEAM LOCO.
**BSG Code:** LBSO

### 700

**17.03.1987** Reclassified from locomotive '700 D' to ' locomotive '706 L'.

### 701

Details: locomotive '701 M' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $293800
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-4
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**BSG Code:** LBAQ

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 21.04.1997 | | |
| Last Lift: | 17.05.1988 | | |
| SW Service Mileage: | 750591 KM | SW Service Date: | 14.02.1995 |
| A Service Mileage: | 791253 KM | A Service Date: | 08.01.1997 |
| B Service Mileage: | 769797 KM | B Service Date: | 04.10.1995 |
| C Service Mileage: | 784702 KM | C Service Date: | 08.10.1996 |
| D Service Mileage: | 801282 KM | D Service Date: | 21.04.1997 |
| E Service Mileage: | 547137 KM | A Service Date: | 15.03.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 17.05.1988 |
| WT Service Mileage: | 592480 KM | WT Service Date: | 13.08.1993 |
| US Service Mileage: | 800667 KM | A Service Date: | 12.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**13.08.1987** Alteration complete 'CONVERT 6 700 CLASS D.E. LOCOMOTIVES FROM 1435 GAUGE TO 1600 GAUGE. (RS4212)'.
**03.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L2,L3,R4,R5,R6 WICKS RENEWED.'.
**03.07.1989** Service defect: 'A - A FRIDGE TO REMOUNT $ SECURE'.
**16.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.'.
**24.07.1989** Service defect: 'SW - ENGINE CYLINDER HEADS - L5 CYL HEAD CHANGED.'.
**24.07.1989** Service defect: 'SW - LUBRICATING SYSTEM - COUPLING ON OIL PIPE REPLACED.'.
**12.08.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - BOOKED FOR NOT MAKING 2ND TRANSITION.TRANSITION CANS CHANGEDTESTED OK IN SHOP.'.
**17.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPLACED A/C FAULTY.'.
**21.08.1989** Service defect: 'UN - GENERAL - 'B'END DRIVERS WINDOW REPLACED A/C BROKEN.'.
**21.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 'B'END SAND BUTTON CLEANED & LUBRICATED A/C STICKING.'.
**21.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END DUPLEX COCK REPAIRED A/C JAMMING.'.
**25.08.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO TRANSITION.BROKEN AXLE GEN SHAFT REPAIRED.'.
**25.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - 'A'END SPEEDO REPLACED A/C NOT WORKING.'.
**29.08.1989** Service defect: 'SW - BOGIE MAINTENANCE - SPRINGS - R1 AXLE BOX SPRING REPLACED A/C BROKEN.'.
**01.09.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - 2ND TRANSITION FAULTY.POWER CONTACTORS,SHUNTS,REVERSERS CHECKED OK.TOP TRANSITION CAN REPLACED.'.
**01.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO NOT WORKING.SPEEDO COMM,BRUSHES REPLACED A/C BURNT OUT.'.
**28.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO REPLACED.'.
**10.10.1989** Service defect: 'UN - DYNAMIC BRAKE - COMPLETE SET OF BRAKE GRIDS FITTED.D/BRAKE SET UP.TESTED OK.'.
**17.10.1989** Service defect: 'UN - VIGILANCE - 4 MICRO/FARAD CAPACITOR REPLACED A/C VIGILANCE WOULD NOT CANCEL.'.
**02.11.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVENOR REPLACED A/C DIAPHRAM LEAKING'.
**23.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END YOKE & PACKAGE REPLACED.'.
**14.12.1989** Service defect: 'UN - GENERAL - 'B'END DRIVERS WINDOW REPLACED.'.
**18.12.1989** Service defect: 'UN - WINDOW TO REPLACE B END'.
**20.12.1989** Service defect: 'UN - BOGIE - 'B'END DRIVERS SIDE BOGIE BOLSTER SHOCK ABSORBER REPLACED A/C BROKEN.'.
**03.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV FILTER CLEANED A/C ERRATIC OPERATION.'.
**12.01.1990** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L5 WICK & OIL CHANGED.'.
**12.01.1990** Service defect: 'C - DYNAMIC BRAKE - 'A'END POTENTIOMETER REPLACED.'.
**31.01.1990** Service defect: 'UN - VIGILANCE - VIGILANCE CHECKED OK.'.
**06.03.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - L3 CYLINDER HEAD CHANGED A/C WATER LEAK.'.
**30.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 3 WICKS REPLACED.'.
**30.03.1990** Service defect: 'A - EXHAUST - EXHAUST PIPE FROM L4,5,6 MANIFOLD TO TURBO REPLACED.'.
**12.06.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - L1 CYLINDER HEAD CHANGED.'.
**11.07.1990** Service defect: 'UN - GENERAL - NO1 GEARCASE CRATER LID & BOTTOM BOLT REPLACED.'.
**02.08.1990** Service defect: 'A - DYNAMIC BRAKE - D/BRAKE PONTIOMETER REPLACED.'.
**02.08.1990** Service defect: 'A - ENGINE CYLINDER HEADS - R6 CYLINDER HEAD CHANGED A/C CRACKED.'.
**30.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO4 WHEELSET CHANGED.'.
**30.08.1990** Service defect: 'UN - TRACTION MOTOR - NO4 TM CHANGED A/C WHEELS.(IN 290712 OUT 280929)'.
**14.09.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR SEVERAL GROUND RELAYS.FIELD CABLE ON NO 2 TM HAD RUBBED THROUGH ON CHASSIS,REPAIRED.'.
**27.09.1990** Service defect: 'UN - TRACTION MOTOR EARTH - FIELD CABLE ON NO2 TM REPAIRED, REPAIRED BLOWN LEAD TM NO2 REPAIRED HOT LUGS ON TM NO2 & 3.'.

**31.10.1990** Service defect: ‘UN - BOGIE - BOGIES CHANGED (IN 1&2 ).’.
**31.10.1990** Service defect: ‘UN - TRACTION MOTOR - ALL TM’S CHANGED (IN 290664,290713,280911,280901,7362514, 290674).’.
**09.11.1990** Service defect: ‘UN - GENERAL - WINDOWS RESEALED.’.
**04.12.1990** Service defect: ‘UN - ELECTRICAL MISC. GROUND RELAY - NO2 TM CABLE INSULATED A/C RUBBED THROUGH.’.
**07.02.1991** Service defect: ‘A - ELECTRICAL MISCELLANEOUS - P=1.5M ,C=0.5M .’.
**07.02.1991** Service defect: ‘A - POSSIBLE CONTROL EARTH TO MONITOR’.
**06.05.1991** Service defect: ‘TW - VIGILANCE - VIGILANCE REPAIRED A/C WOULD NOT CANCEL FROM ‘B‘END.’.
**06.05.1991** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - NO 4 & 5 WHEELSETS REPLACEMENT.’.
**06.05.1991** Service defect: ‘UN - DYNAMIC BRAKE SETTING - DYN/BRAKE SET UPS CHECKED OK.’.
**06.05.1991** Service defect: ‘UN - ENGINE GOVERNOR - GOVERNOR REPLACED.’.
**06.05.1991** Service defect: ‘UN - FUEL SYSTEM - L1 FUEL BANGO REPAIRED,A/C BROKEN BOLTS.’.
**06.05.1991** Service defect: ‘UN - FUEL SYSTEM INJECTORS - INJECTORS CHANGED.’.
**06.05.1991** Service defect: ‘UN - FUEL SYSTEM LINES - R1 HIGH PRESSURE FUEL LINE CHANGED,A/C LEAKING.’.
**06.05.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - AXLE GENERATOR REPLACED.’.
**06.05.1991** Service defect: ‘UN - VIGILANCE - PILOT AIR VALVE & DOUBLE CHECK VALVE REPLACED IN VIG SYSTEM’.
**06.05.1991** Service defect: ‘TW - ’B‘END OBSERVERS MIRROR MISSING.’.
**19.05.1991** Service defect: ‘TS - FUEL SYSTEM - R5 FUEL BANJO REPLACED.’.
**19.05.1991** Service defect: ‘TS - SHOCKER TO REPLACE.’.
**23.05.1991** Service defect: ‘UN - BOGIE - LATERAL SHOCKER REPLACED.’.
**27.06.1991** Service defect: ‘B - BOGIE - D/SIDE ’B’ END SHOCK ABSORBER REPLACED. O/SIDE SHOCK ABSORB RUBBERS REPLACED.’.
**27.06.1991** Service defect: ‘B - EXHAUST - CRACKED EXHAUST CONNECTORS - R1.R2.&R3 REPLACED.’.
**27.06.1991** Service defect: ‘B - FUEL SYSTEM INJECTORS - LEAKING FUEL INJECTORS REPLACED R1,R3,R6,&L6.’.
**27.06.1991** Service defect: ‘B - OTHER BODY REPAIRS - O/SIDE MIRROR REPLACED.’.
**10.07.1991** Service defect: ‘UN - ENGINE - ENGINE OIL PRESSURE & WATER PRESSURE CHECKED OK.’.
**10.07.1991** Service defect: ‘UN - ENGINE CYLINDER HEADS - R5 HEAD CHANGED, A/C CRACKED.’.
**18.07.1991** Service defect: ‘UN - FUEL SYSTEM INJECTORS - INJECTORS FITTED EX 601,INLET GASKETS FITTED,L4 & R3, A/C FUEL DILUTION.’.
**18.07.1991** Service defect: ‘UN - LUBRICATING SYSTEM - OIL CHANGED & OIL FILTERS CHANGED.’.
**22.07.1991** Service defect: ‘TS - FUEL SYSTEM INJECTORS - R1 & R4 INJECTORS CHANGED, A/C LEAKING.’.
**08.08.1991** Service defect: ‘UN - ENGINE CYLINDER HEADS - NO’S 2 & 4 CYCLINDER HEADS REPLACED, A/C CHOOFING FROM EXHAUST & WATER LEAK.’.
**15.08.1991** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - GEARCASE TIGHTENED ON NO 4 WHEEL.’.
**15.08.1991** Service defect: ‘UN - COOLING SYSTEM - NEW VICTAULIC RUBBER SEAL FITTED TO COOLANT PIPE NEAR TURBO OBS/SIDE, A/C VICTAULIC LEAKING.’.
**15.08.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE RIGGING REPAIRED ‘B‘END OBS SIDE.’.
**10.10.1991** Service defect: ‘TS - BOGIE MAINTENANCE - WHEELS - NO.1 WHEELSET CHANGED.’.
**10.10.1991** Service defect: ‘TS - TRACTION MOTOR - NO.1 TRACTION MOTOR CHANGED.’.
**21.10.1991** Service defect: ‘A - ELECTRICAL MISCELLANEOUS - CRANKCASE EXHAUSTER MOTOR REPLACED,A/C SHORTED.’.
**21.10.1991** Service defect: ‘A - FUEL PUMP MOTOR - FUEL PUMP REPAIRED ‘B‘END.’.
**10.04.1992** Service defect: ‘SW - GENERAL - SEAT REPAIRS COMPLETED.WIPER MOTOR REPLACED & TESTED OK.’.
**10.04.1992** Service defect: ‘SW - GENERAL LOSS OF POWER - G.F.SWITCH FOUND TO BE A BIT STICKY FREED & TESTED OK,A/C REV’S BUT NO POWER ‘B‘END.’.
**13.04.1992** Service defect: ‘C - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED,A/C OVERCHARGING.’.
**13.04.1992** Service defect: ‘C - GENERAL - ‘B‘END ENGINE ROOM DOOR SEALED,A/C FUMES.OBS/MIRROR ’A’END REPLACED,SWAPPED WITH ‘B‘END,A/C NIL STOCK.’.
**26.05.1992** Service defect: ‘UN - ENGINE CYLINDER HEADS - L5 CYLINDER HEAD REPLACED,A/C VALVE.FUEL RAIL BOLT REPAIRED ON R1.OIL PRESSURE 95PSI OK.’.
**03.06.1992** Service defect: ‘TS - FUEL SYSTEM LINES - R3 H.P. LINE REPLACED,A/C FRACTURED.’.
**10.06.1992** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - ‘B‘END AUTO VALVE REPAIRED.26D CONTROL VALVE CHANGED,A/C NO NO TRAIN PIPE PRESSURE.’.
**10.06.1992** Service defect: ‘UN - VIGILANCE - VIGILANCE REPAIRED BY MAGNET VALVE CHANGE OUT.’.
**10.06.1992** Service defect: ‘UN - ’B’ END DRIVERS BRAKE VALVE TO CHANGE-NIL STOCK’.
**19.06.1992** Service defect: ‘A - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL CHECKED OK WITH MULTI METER.’.
**19.06.1992** Service defect: ‘A - TRACTION MOTOR - NO.6 T/M ZERO MEGGER READING ON INTERPOLE.-SUSPECT WET T/M.’.
**15.07.1992** Service defect: ‘UN - FUEL SYSTEM - FUEL TANK DRAINED.-REFILLED WITH CLEAN DIESEL. FUEL FILTERS REPLACED.FUEL PUMPS AND INJECTORS WORKING OK.’.
**14.08.1992** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - EARTH REPAIRED ON VIGILANCE BOARD. 4Q WIRE DOWN TO EARTH.’.
**14.08.1992** Service defect: ‘UN - ELECTRICAL MISC. HEADLIGHT - HEAD LIGHT MODS. COMPLETED. 75 VOLT - 350 WATT ’.
**14.08.1992** Service defect: ‘UN - ENGINE WATER LEAK - L6 WATER RAIL GASKET REPLACED.’.
**07.09.1992** Service defect: ‘UN - EXHAUST - L1, L2, L3 EXHAUST MANIFOLD GASKETS REPLACED.’.
**07.09.1992** Service defect: ‘UN - FUEL SYSTEM - L1 FUEL

SNUBBER REPLACED A/C SPLIT.'.

**14.09.1992** Service defect: 'B - BOGIE - NO.4 GEARCASE TIGHTENED.'.

**14.09.1992** Service defect: 'B - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED A/C LEAKING.'.

**14.09.1992** Service defect: 'B - GENERAL - DRIVERS SIDE FRONT BLIND REPAIRED.'.

**14.09.1992** Service defect: 'B - LUBRICATING SYSTEM - HEAT EXCHANGER OIL PIPE VICTAULICS CHANGED A/C LEAKING.'.

**14.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDING HOSES RE-ALIGNED.'.

**14.09.1992** Service defect: 'B - TRACTION MOTOR - NO.3 T/M CABLES RE-INSULATED A/C RUBBING ON T/M FRAME.'.

**10.10.1992** Service defect: 'UN - GENERAL - WINDOW REPLACED.'.

**10.10.1992** Service defect: 'UN - VIGILANCE - CAPICATOR ON VIG PANEL REPLACED,A/C FAULTY.CHECKED OK.'.

**23.10.1992** Service defect: 'TS - FUEL SYSTEM - R1 FUEL BOLT REPLACED.'.

**23.10.1992** Service defect: 'TS - GENERAL - 'B'END D/SIDE SLIDING WINDOW REPLACED & ADJUSTED.'.

**23.10.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES BRACKET WELDED.'.

**10.11.1992** Service defect: 'UN - FUEL SYSTEM LINES - HIGH PRESSURE FUEL LINE REPLACED,R2.'.

**10.11.1992** Service defect: 'UN - MAIN GENERATOR - MAIN GENERATOR WASHED A/C OILY. BRUSHES REOLACED.'.

**10.11.1992** Service defect: 'UN - TRACTION MOTOR - NO 4 T/M WASHED, A/C OILY. POWER MEGGERED P= 10K.'.

**10.11.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO 4 T/M BRUSHES CHANGED.'.

**20.11.1992** Service defect: 'TS - DYNAMIC BRAKE - D/B MEGGERED TO 25K. LOCO HAD GR'S.'.

**20.11.1992** Service defect: 'TS - MAIN GENERATOR - M/GEN INTERPOLES SPLIT,NEW INTERPOLE USED IN M/GEN FROM ISL.LOCO TESTED IN POWER OK. LOCO MEGGERED TO 1.5 MEGS OHMS.'.

**18.12.1992** Service defect: 'A - BOGIE - 5 SETS OF SHOCKER RUBBERS REPLACED.'.

**18.12.1992** Service defect: 'A - FUEL SYSTEM - FUEL HOSE CHANGED ON C/CASE EXHAUSTER BRACKET, A/C RUBBED THROUGH.'.

**18.12.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - R2 FAN CLUTCH CONTACTOR REPLACED, A/C SHORTED COIL.'.

**18.12.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRING TO EDDY CURRENT CLUTCH REPLACED BY MEANS OF EXTERNAL CONDUIT.'.

**18.12.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LCB REPLACED, A/C WRONG TYPE + NUISANCE TRIPPING.'.

**18.12.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - SOME WIRING IN ELECT COMPARTMENT REPLACED, A/C BURNT.'.

**20.01.1993** Service defect: 'UN - NO FAULT FOUND - POWER POINT AND HOT PLATE TESTED OK.'.

**20.01.1993** Service defect: 'UN - VIGILANCE - 'A'END VIGILANCE WARNING LIGHTS REPAIRED.'.

**05.02.1993** Service defect: 'TS - DYNAMIC BRAKE - ONE BRAKE GRID REPLACED, A/C COLLAPSED.'.

**05.02.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LINE ON 'B'BOGIE REPAIRED, A/C BROKEN.'.

**05.02.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NO 3 T/MOTOR REPLACED, A/C ARMATURE TO EARTH.'.

**18.02.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - R5 HEAD REPLACED, A/C SUSPECTED LEAKING EXHAUST FUMES.'.

**18.02.1993** Service defect: 'UN - EXHAUST - ALL EXHAUST LEAKS REPAIRED, TESTED OK.'.

**22.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE EXHAUSTED TO OUTSIDE OF CAB A/C EXCESSIVE FUMES ENTERING CAB.'.

**22.02.1993** Service defect: 'UN - OTHER BODY REPAIRS - FLOOR PANEL IN FRONT OF DRIVER SECURED & SEALED A/C FUMES. 'A' END CAB TO ENGINE ROOM DOOR STRIKER BOLTS REPLACED.'.

**02.03.1993** Service defect: 'UN - DYNAMIC BRAKE - ALL BRAKE TANK INSULATORS REMOVED,CLEANED & INSTALLED. 6 GRIDS REPLACED, A/C CRACKED FRAMES.'.

**02.03.1993** Service defect: 'UN - FUEL SYSTEM - 4 H.P.FUEL LINES & BANJO BOLT SEALS REPAIRED, A/C FUEL LEAKS'.

**02.03.1993** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL FUEL INJECTORS CHANGED.'.

**02.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT PART OF 'B'END AUTO BRAKE VALVE REPLACED - TESTED OK.'.

**15.03.1993** Service defect: 'E - BOGIE - AXLE BOX WEAR PADS REPLACED AT L3 & R2. BOGIE SAFETY BRACKETSPLIT PINS REPLACED. L1,L3,R3 & L4 BEARING CAPS REWIRED.'.

**15.03.1993** Service defect: 'E - BOGIE - R4 & R6 GEAR CASES TIGHTENED.'.

**15.03.1993** Service defect: 'E - BOGIE MAINTENANCE - WICKS - L1 & L5 WICKS REPLACED.'.

**15.03.1993** Service defect: 'E - CONTACTOR MISCELLANEOUS - RADIATOR FAN LOW CONTACTOR REPLACED,A/C COIL OPEN CIRCUIT, CHECKED OK.'.

**15.03.1993** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO AIR MOD COMPLETED.'.

**15.03.1993** Service defect: 'E - MECHANICAL EQUIPMENT SANDING GEAR - ALL SAND PIPE BRACKETS & HORN STAYS TIGHTENED.'.

**15.03.1993** Service defect: 'E - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END MAIN RES HOSE REPLACED.'.

**22.03.1993** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK FROM TURBO HEADER BOX REPAIRED.'.

**03.04.1993** Service defect: 'SW - ENGINE CYLINDER HEADS - OIL LEAK - ALL CYLINDER HEADS REPLACED A/C OILON ROOF. ALL EXHAUST AND WATER GASKETS RENEWED ON HEADS.'.

**03.04.1993** Service defect: 'SW - FUEL SYSTEM INJECTORS - R3 FUEL INJECTOR REPLACED A/C LEAKING FUEL AT H.P. INLET SEAT.'.

**14.04.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER INSTALLATION COMPLETED,A/C NOISY,U/S.'.

**19.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE LEAK 'A'END REPAIRED,A/C LOOSE FITTING.'.
**19.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - ROOF WASHED,A/C OILY. LOCO REQ'D FOR TRAFFIC.'.
**19.05.1993** Service defect: 'UN - ENGINE - RING & PISTON CHANGE COMPLETED,EX PT AUGUSTA.'.
**19.05.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CONNECTOR REPLACED.'.
**19.05.1993** Service defect: 'UN - EXHAUST - EXHAUST JOINTS REPLACED.'.
**19.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR ELBOW JOINTS REPLACED.'.
**01.06.1993** Service defect: 'A - MAIN GENERATOR - MAIN GENERATOR CLEANED OUT A/C VERY OILY AND DIRTY.'.
**23.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END INDEPENTENT BRAKE VALVE REPLACED,A/C LEAKING OFF.'.
**05.07.1993** Service defect: 'TS - AUXILLARY MACHINES - ONE AUX. GEN BRUSH REPLACED A/C SHORT.'.
**05.07.1993** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHECKED OK. NO CURRENT LEAKAGE WHEN SHUT DOWN.'.
**05.07.1993** Service defect: 'TS - GENERAL - ENGINE ROOM WASHED.'.
**20.07.1993** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT COIL CHANGED,A/C EARTH. P=100OHMS. C=150OHMS.'.
**10.08.1993** Service defect: 'UN - DYNAMIC BRAKE - 'B'END DYN BRAKE RHEOSTAT REPLACED.'.
**10.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO LIGHT REPAIRED.'.
**10.08.1993** Service defect: 'UN - MAIN GENERATOR - MAIN GEN CLEANED UP, A/C OILY. ALL BRUSHES PUT BACK & CHECKED.'.
**10.08.1993** Service defect: 'UN - TRACTION MOTOR - NO 4 T/M WASHED & ALL BRUSHES REPLACED.'.
**23.08.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - CONTROL CIRCUIT BREAKER FAULT CHECKED OK.'.
**23.08.1993** Service defect: 'B - FUEL SYSTEM - BROKEN BOLT ON L2 FUEL RACK DRILLED AND REMOVED. REPLACED BOLT.'.
**23.08.1993** Service defect: 'B - MAIN GENERATOR - 9 BRUSHES CHANGED ON MAIN GEN. A/C FRAYED PIGTAILS. BEARING WEAR CHECKED OK.'.
**08.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO MOUNTING BOLTS REPLACED, A/C BROKEN.'.
**08.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - 'B'END STEPS WELDED.'.
**13.09.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL, EARTH FOUND ON MAGNET VALVE ON REVERSER. REPLACED MAGNET VALVE AND REPAIRED WIRING.'.
**13.09.1993** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B'END RECEPTACLE MOUNTING BOLT REPLACED, A/C BROKEN.'.
**16.09.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING TO EXHAUSTER MOTOR REPAIRED, A/C TRIPPING.'.
**16.09.1993** Service defect: 'UN - GENERAL - LOG BOOK REPAIRS COMPLETED.'.
**07.10.1993** Service defect: 'UN - AUXILLARY MACHINES - CRANK CASE EXHAUSTER REPLACED A/C U/S.'.
**17.11.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 'A'END LOAD METER REPLACED.'.
**17.11.1993** Service defect: 'A - OTHER BODY REPAIRS - 'B'END D/SIDE WINDOW REPLACED.'.
**17.11.1993** Service defect: 'A - TRACTION MOTOR - BELLOWS REPLACED ON NO 4 T/MOTOR.'.
**17.11.1993** Service defect: 'A - VIGILANCE - VIGILANCE RESEALED.'.
**19.11.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOAD METER REPLACED.GA1 AND GA2 CABLES ON BUS BARS WERE CONNECTED INCORRECTLY, REPAIRED OK. LOCO OK ON TRIAL RUN.'.
**02.12.1993** Service defect: 'TS - BATTERY MAINTENANCE - LOCO STARTED OK, BATTERY CHARGE RAISED, A/C LOW. BATTERIES CHECKED OK.'.
**02.12.1993** Service defect: 'TS - TRACTION MOTOR - T/M BLOWER FAN DRIVE CHANGED, A/C BROKEN.'.
**09.12.1993** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHANGED, LOCO STARTED.'.
**09.12.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED, A/C U/S.'.
**14.12.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - SENT TO WTM.'.
**14.12.1993** Service defect: 'TS - DYNAMIC BRAKE - EFR WIRING REPAIRED A/C RUBBED THRU. NEW BUS BAR MADE AT ISLINGTON. LOCO FAILED ON TRIAL RUN. D/B DISCONNECTED.'.
**14.12.1993** Service defect: 'TS - MECHANICAL EQUIPMENT - STANDARDISING OF CONTROL AIR PIPES COMPLETED.'.
**21.12.1993** Service defect: 'TS - DYNAMIC BRAKE - -MENT LEFT ON BCR3-1.'.
**21.12.1993** Service defect: 'TS - DYNAMIC BRAKE SETTING - DYNAMIC BRAKE SET UP COMPLETED. 22D WIRE REMOVED FROM CR3 AND D/BRAKE FIELD AMPS SET TO 650 USING BCR3-2 A/C NO ADJUST'.
**21.12.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - NEW TURBO FITTED AND CHECKED OK.'.
**05.01.1994** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHANGED.'.
**05.01.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - ANOTHER TURBO CHANGED. FILTERS AND AIR INTAKE DUCTS CLEANE-D, A/C FORIEGN MATERIAL MUST HAVE CAUSED DAMAGE.'.
**02.02.1994** Service defect: 'TS - LOCO TO ISLINGTON.2/2.'.

### 702

Details: locomotive '702 V' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B

**Bogie Configuration:** CO-CO
**Original Cost:** $293800
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-4
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**Remarks:** STORED
**BSG Code:** LBAQ

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 16.12.1994 | | |
| Last Lift: | 23.07.1987 | | |
| SW Service Mileage: | 1351580 KM | SW Service Date: | 16.12.1994 |
| A Service Mileage: | 820460 KM | A Service Date: | 22.08.1994 |
| B Service Mileage: | 649593 KM | B Service Date: | 03.06.1993 |
| C Service Mileage: | 724979 KM | C Service Date: | 17.11.1993 |
| D Service Mileage: | 796425 KM | D Service Date: | 16.06.1994 |
| E Service Mileage: | 500468 KM | A Service Date: | 18.07.1991 |
| F Service Mileage: | 0 KM | A Service Date: | 23.07.1987 |
| WT Service Mileage: | 773598 KM | WT Service Date: | 22.04.1994 |
| US Service Mileage: | 826462 KM | A Service Date: | 05.09.1994 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**13.08.1987** Alteration complete 'CONVERT 6 700 CLASS D.E. LOCOMOTIVES FROM 1435 GAUGE TO 1600 GAUGE. (RS4212)'.
**04.07.1989** Service defect: 'UN - ENGINE - ENGINE OVERSPEED ADJUSTED A/C TRIPPED.'.
**04.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END AUTO COUPLER CHANGED A/C CRACKED.'.
**06.07.1989** Service defect: 'FA - FUEL SYSTEM LINES - NO3 H/P FUEL LINE REPLACED.'.
**01.08.1989** Service defect: 'A - MECH. EQUIPMENT RADIATOR FAN GEARBOX - GEAR FLEX DRIVE TO FAN REPLACED.'.
**08.08.1989** Service defect: 'UN - AUXILLARY MACHINES - AUX GENERATOR CHANGED.'.
**11.08.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - 'A'END DOME LIGHT REPAIRED A/C EARTH.'.
**01.09.1989** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - R1 AXLE BOX OUTER SPRING REPLACED.'.
**19.09.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON FUEL PUMP CANNON PLUG REPAIRED.C-100K.'.
**19.10.1989** Service defect: 'UN - GENERAL - 'A'END F/MANS SIDE WINDOW REPLACED A/C BROKEN.'.
**25.10.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED AS NOT WORKING.TEST RUN IN DEPOT,CHECKED OK. 3-29V.'.
**08.11.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L5,R1,R2,R3,R4,R5 WICKS CHANGED.'.
**10.11.1989** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - D/BRAKE GRIDS CHANGED.'.
**18.11.1989** Service defect: 'UN - VIGILANCE - CAPACITOR REPLACED A/C VIGILANCE FAULTY.'.
**28.11.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**07.12.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**14.01.1990** Service defect: 'FA - COMP GOV/MAG VALVE TO CHECH.A END L&R SAND BOX LID'.
**14.01.1990** Service defect: 'FA - S REMOVED.'.
**18.01.1990** Service defect: 'C - MECHANICAL EQUIPMENT - SHAFT COUPLING ON FAN CHANGED A/C BROKEN.'.
**18.01.1990** Service defect: 'C - VIGILANCE - 75LB SUPPLY VALVE CHANGED.'.
**24.01.1990** Service defect: 'WT - WHEEL NO 6 10MM OFF. NO5 10MM. NO4 10MM.'.
**24.01.1990** Service defect: 'WT - NO3 30MM NO2 20MM. NO10 10MM.'.
**05.02.1990** Service defect: 'UN - COOLING SYSTEM - R1.L2 ELBOW JOINTS REPAIRED.'.
**05.02.1990** Service defect: 'UN - LUBRICATING SYSTEM LOW OIL PRESSURE - MICHIANA OIL FILTERS CHANGED A/C LOW OIL PRESSURE.'.
**10.02.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - R5 & L4 CYL HEADS CHANGED.'.
**10.02.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN SHAFT REPAIRED.'.
**20.02.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - ALL CYLINDER HEADS CHANGED A/C ENGINE OVERHEATING.'.
**20.02.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.
**20.02.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL & FILTERS CHANGED A/C WATER.'.
**18.04.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.
**20.04.1990** Service defect: 'UN - ENGINE - L3 WATER ELBOW HOSE REPLACED.A/C LEAKING.'.
**02.05.1990** Service defect: 'UN - BOGIE - R4 AXLE BOX LINER REPLACED.'.
**02.05.1990** Service defect: 'UN - ENGINE - L2 CROSSHEAD (FUEL) RENEWED A/C COLLAPSED.'.
**02.05.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - L1 INJECTOR CHANGED.'.
**02.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE COCKS REPLACED.'.
**06.05.1990** Service defect: 'TS - LUBRICATING SYSTEM - OIL STRAINER JOINT RENEWED A/C LEAKING.'.
**10.05.1990** Service defect: 'UN - ENGINE - R4,R5 ROCKER COVER GASKETS REPLACED A/C OIL LEAK.'.
**25.05.1990** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP CHANGED.'.
**12.06.1990** Service defect: 'UN - GENERAL - 'A'END F/MANS WINDOW REPLACED.'B'END SLIDING WINDOW REPAIRED'.
**21.06.1990** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R1,R2,R5,L4,L5 WICKS CHANGED.'.
**22.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER CHANGED A/C CRACKED.'.
**04.07.1990** Service defect: 'UN - GENERAL ACCIDENT - LOCO CHECKED OK A/C DERAILMENT.'.
**14.07.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - NEW FLANGE FITTED TO WATER VESSEL ON TURBO A/C LEAKING.'.
**20.07.1990** Service defect: 'UN - GENERAL - HEAD

PROTECTION IN ENGINE ROOM REFITTED.'.
**06.08.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**14.09.1990** Service defect: 'UN - HORIZONTAL SHOCKER TO REPLACE.14/9*'.
**17.09.1990** Service defect: 'UN - BOGIE - SHOCKER REPLACED.'.
**27.09.1990** Service defect: 'C - AUXILLARY MACHINES - FUEL PUMP MOTOR CHANGED. A/C FLATS ON COMM.'.
**31.10.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L5 WICK & OIL CHANGED A/C OIL BLACK & WICK DAMAGED.'.
**31.10.1990** Service defect: 'UN - LHS FUEL FILLER LEAKING AT LARGE THREAD.31/10*'.
**17.11.1990** Service defect: 'A - BOGIE - 4 SHOCKERS REPLACED.'.
**29.11.1990** Service defect: 'UN - LUBRICATING SYSTEM - BOOKED FOR LOW OIL PRESSURE,OIL STRAINER CLEANED.'.
**24.01.1991** Service defect: 'UN - BOGIE - BOGIES EX 703 FITTED'.
**19.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPLACED.A/C MISSING.'.
**11.04.1991** Service defect: 'UN - GENERAL - ROUGH RIDING-TRIAL RUN CARRIED OUT BY TECHNICAL STAFF.'.
**02.05.1991** Service defect: 'A - EXHAUST - 2 LONG & 1 SHORT EXHAUST CONCERTINAS REPLACED,A/C CRACKED.'.
**02.05.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL AIR STRAINER REPLACED,A/C BLOCKED.'.
**02.05.1991** Service defect: 'A - OTHER BODY REPAIRS - 'B' END OBS/ LIFT UP WINDOW RE-NEWED.'.
**22.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - R1 BRAKE GEAR AND HANGER REPLACED A/C BROKEN OFF.'.
**15.06.1991** Service defect: 'UN - GENERAL - 'A'END D/SIDE SLIDING WINDOW REPLACED.'.
**15.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - 'A'END DRIVERS BRAKE VALVE REPLACED,EMERGENCY VALVE REPLACED'.
**15.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR BREATHER DIAPHRAGM REPLACED.'.
**01.07.1991** Service defect: 'UN - BOGIE - NO 4 GEAR CASE REPLACED,A/C U/S.NO4 BRAKE SPREADER BAR REPLACED,NO4 AXLE PLUG REPLACED.'.
**18.07.1991** Service defect: 'E - BOGIE - 'A'END OBS/SIDE SAND BOX EXTERIOR REPAIRED, A/C CORRODED.'.
**18.07.1991** Service defect: 'E - COOLING SYSTEM - ENGINE TOPPED UP WITH RAW WATER,A/C NO COOLANT AVAILABLE.'.
**18.07.1991** Service defect: 'E - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 1 D/BRAKE GRID REPLACED.'.
**18.07.1991** Service defect: 'E - ELECTRICAL MAINTENANCE -WIRING - 'B'END HEATER REWIRED FROM PEDESTAL, A/C WIRING DOWN TO GROUND.'.
**18.07.1991** Service defect: 'E - ENGINE CYLINDER HEADS - L5 HEAD CHANGED, A/C CRACKED.'.
**18.07.1991** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPAIRED, A/C LEAKING AT EXHAUST BOLT ON STACK NEAR COFFEE POT]'.
**18.07.1991** Service defect: 'E - INJECTORS REQ'D.18/7.'.
**25.07.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 3 BRUSHES REPLACED IN NO 2 T/MOTOR.MAIN GEN CHECKED OK, A/C GR'S.'.
**30.07.1991** Service defect: 'TS - FUEL SYSTEM PUMP - ELECTRIC FUEL PUMP MOTOR CHANGED, A/C BURNT OUT.'.
**30.07.1991** Service defect: 'TS - ''.
**11.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHARGED. TO BE MONITORED.'.
**11.10.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.3 WHEELSET CHANGED.'.
**11.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - AIR FRIDGE REMOVED. AIR PIPE REPAIRED.'.
**15.10.1991** Service defect: 'A - NO 2 T/M TOP BRUSHES TO MONITOR,A/C ALL 3 BRUSHES'.
**15.10.1991** Service defect: 'A - CRACKED.15/10.'.
**04.11.1991** Service defect: 'TS - BATTS TO CHANGE. MAIN RES. DRAIN COCK TO REPLACE.'.
**20.12.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - R6 WICK CHANGED.'.
**20.12.1991** Service defect: 'UN - AIR/CON SWITCH TO REPLACE.NIL STOCK.20/12.'.
**23.12.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON. REPAIRED.'.
**03.01.1992** Service defect: 'TS - INSULATION WORN - NO.2 T/M CABLE RUBBED THRU.-RE-INSULATED CABLE.'.
**10.01.1992** Service defect: 'UN - BATTERY MAINTENANCE - ALL BATTERIES CHANGED.'.
**15.05.1992** Service defect: 'TS - ENGINE - ENGINE CHANGE COMPLETED.'.
**05.07.1992** Service defect: 'SW - BOGIE - NEW BOGIES FITTED.'.
**05.07.1992** Service defect: 'SW - SENT TO ISLINGTON WORKSHOPS.A/C SEVERAL SUSPENSION'.
**05.07.1992** Service defect: 'SW - BEARINGS U/S.-SPRINGS.'.
**31.07.1992** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICKS CHECKED OK.-NO.2 WICK CHANGED A/C DISCOULORED.'.
**31.07.1992** Service defect: 'SW - ELECTRICAL MISC. TRANSITION - 2 TRANSITIONS POTS CHANGED A/C OVER SPEED IN TRANSITION.'.
**03.08.1992** Service defect: 'UN - GENERAL SHUTDOWN - LOCO SHUTTING DOWN ON OVER-SPEED-LOCO FOUND 100 REVS TO LOW.REVS ADJUSTED UP.SENT ON CONTROL FOR TESTING.'.
**05.08.1992** Service defect: 'FA - ELECTRICAL MISC. TRANSITION - TRANSITION CHECKED OK.'.
**05.08.1992** Service defect: 'FA - ENGINE - ENGINE REVS CHECKED AT NOTCH 8 -2700.-RE-SET TO 2460. MAIN ENGINE AND GEN. BOLTS ALL CHECKED TIGHT.'.
**05.08.1992** Service defect: 'FA - MECHANICAL EQUIPMENT - OVERSPEED CHECKED OK-NEW PIN FITTED.-OVERSPEED RESET TO 2460.'.
**05.08.1992** Service defect: 'FA - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR AIR LEAK REPAIRED.'.
**18.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - HEATER WIRE REPLACED A/C BURNT OFF.DRIVERS HEATER.'.
**03.09.1992** Service defect: 'UN - ENGINE - COMPRESSION TESTED. L1,375LB. L2,350LB. L3,390LB. L4,375LB.'.
**03.09.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK AROUND HEAT EXCHANGER REPAIRED.'.
**03.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LEAK IN TRAIN PIPE

REPAIRED.'.

**03.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - SERVICE WATER TANK REPAIRED. A/C BAD LEAK.'.

**09.09.1992** Service defect: 'SW - BOGIE - R1, L1, R3 AND R6 AXLE BOX SEALS REPLACED.'.

**09.09.1992** Service defect: 'SW - ELECTRICAL MISC. HEADLIGHT - HEAD LIGHT MODS COMPLETED. 75 VOLT 350 WATT GLOBES.'.

**17.09.1992** Service defect: 'B - AUXILLARY MACHINES - FUEL PUMP REMOVED, PULLED APART AND CLEANED A/C OILY AND DIRTY. NO NEW PUMPS IN STOCK TO REPLACE IT WITH.'.

**17.09.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R1 AND L2 WICKS CHANGED A/C CONTAMINATED WITH WATER.'.

**17.09.1992** Service defect: 'B - COOLING SYSTEM - BOTH THERMOSTATS CHANGED A/C NOT WORKING.'.

**17.09.1992** Service defect: 'B - IN-LINE STRAINERS ON VIG. AND COMPRESSOR GOVERNOR'.

**17.09.1992** Service defect: 'B - LINES REQIRED A/C NIL IN STOCK.18/9/92.'.

**19.10.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRES 4 & 4Q IN 'A'END D/STAND DISCONNECTED & TAPED, A/C DOWN TO EARTH.DESK LIGHT SWITCH WIRES OFF & TAPED 'A'END OBS'.

**19.10.1992** Service defect: 'UN - REPAIRS TO WIRING 'A'& 'B' CABS TO COMPLETE.19/10.'.

**21.10.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING IN CABS 'A' & 'B' END COMPLETED.C= 1.5 OHMS.'.

**28.10.1992** Service defect: 'TS - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED & TESTED OK.'.

**23.11.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - L.T. EARTH - GOV WIRING & CRANKCASE EXHAUSTER WIRING REPLACED, A/C U/S.'.

**11.12.1992** Service defect: 'A - LUBRICATING SYSTEM - MAIN BEARING OIL FEED PIPES CHECKED OK.'.

**11.12.1992** Service defect: 'A - LUBRICATING SYSTEM LOW OIL PRESSURE - OIL FILTER CHANGED, A/C SHUTTING DOWN LOW OIL PRESSURE.'.

**14.12.1992** Service defect: 'C - BOGIE - L1 SHOCK ABSORBER BOLT REPLACED, A/C MISSING.'.

**14.12.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - NO 13 WIRES FOUND OFF IN 'A'END CONTROLLER, REPLACED. LOCO CHECKED OK.'.

**23.12.1992** Service defect: 'UN - BOGIE - LATERAL SHOCKERS'A'END R.H.S.'.

**20.01.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 'B'HOTPLATE AND POWER POINT REPLACED.'.

**20.01.1993** Service defect: 'UN - GENERAL - 'B' FRIDGE FITTED IN 'A'END.'.

**20.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A' END COUPLER REPLACED.'.

**20.01.1993** Service defect: 'UN - AIR COND.TO REGAS.'.

**20.01.1993** Service defect: 'UN - EARTH ON CONTROL A/C G/RELAYON START.'.

**20.01.1993** Service defect: 'UN - L4 A/BOX SEAL LEAKING GREASE.'.

**21.01.1993** Service defect: 'UN - VIGILANCE - VIGILANCE PANEL RELAY REPLACED.'.

**05.02.1993** Service defect: 'TS - CONTACTOR MISCELLANEOUS - FINGER CONTACT ON CK1 REPLACED, A/C BTOKEN.'.

**05.02.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - START BUTTON REPAIRED, WIRE OFF ENG RUN SWITCH,LOCO STARTED OK, NO G/RELAYS ON START.'.

**05.02.1993** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMPS 'POP' TESTED IN NOTCH 8, A/C SUSPECT ROUGH RUNNING'.

**08.02.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - CONDUIT & WIRING TO FUEL PUMP FROM TERMINAL STRIP IN ENG ROOM REPAIRED, A/C SUSPECTED DOWN TO EARTH. C= 700OHMS. P='.

**22.02.1993** Service defect: 'TS - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B' END TRAINLINE RECEPTACLE CHECKED OK A/C ENGINE SHUTTING DOWN WHEN PLACED IN IDLE.'.

**22.02.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY ON START WHEN COUPLED TO BL32 A/C BL32 HAS AN EARTH ON THE V-LINE RADIO.'.

**22.02.1993** Service defect: 'TS - ENGINE GOVERNOR - ONE LITRE OIL REMOVED FROM GOVERNOR A/C OVERFILLED.'.

**22.02.1993** Service defect: 'TS - LUBRICATING SYSTEM LOW OIL PRESSURE - PRESSURE REGULATING VALVE REPLACED A/C ONLY 40LBS PRESSURE IN NOTCH 8.ENGINE OIL PRESSURE NOW 108LBS IN NOTCH 8.'.

**19.03.1993** Service defect: 'A - GENERAL - 'A'END OBS BLIND REPAIRED.'.

**19.03.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'END PACKAGE REPLACED, A/C CRACKED.'.

**20.04.1993** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN HAS SIGNS OF FLASHOVER - COMMUTATOR CLEANED,V RING CLEANED,A/C GR OPERATED WHEN IN POWER. POWER = 700KOHMS.'.

**20.04.1993** Service defect: 'UN - TRACTION MOTOR - T/MOTORS CHECKED OK.'.

**07.05.1993** Service defect: 'TS - AUXILLARY MACHINES - FUEL PUMP BRUSHES CHANGED A/C TOO SHORT.'.

**07.05.1993** Service defect: 'TS - NO FAULT FOUND - LOCO SHUTTING DOWN WITH SUSPECTED LOW OIL. LOCO SENT ON TRIAL RUN TO TAILEM BEND AND NO FAULT WAS FOUND.'.

**12.05.1993** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - DYNAMIC BRAKE FAILED, BLUE SPARKS FROM PEDESTAL. DYNAMIC BRAKE POT REPLACED.'.

**12.05.1993** Service defect: 'UN - FUEL PUMP MOTOR - FUEL PUMP MOTOR REPLACE A/C U/S. PUMP EX 701 USED.''.

**18.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - ALL PRESSURE REGULATING VALVES STRIPPED,CLEANED & REPAIRED, A/C LOCO SHUTTING DOWN WHEN NOTCHING OFF.'.

**03.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L5 AND R5 WICKS AND OIL CHANGED A/C VERY DIRTY.'.

**03.06.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - ELECTRICAL CABINET BRUSHED AND VACUUMED A/C FILTHY.'.

**03.06.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO MAIN EXHAUST LEAK REPAIRED.'.
**03.06.1993** Service defect: 'B - EXHAUST - R3 AND R6 EXHAUST LEAKS REPAIRED.'.
**03.06.1993** Service defect: 'B - MAIN GENERATOR - 20 M/GEN. BRUSHES CHANGED A/C FRAYED PIGTAILS. GEN. BRUSHEDOUT A/C FILTHY.'.
**03.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FAST COUPLING COVER REPAIRED. MICHIANA LEAK REPAIRED. HANDBRAKE REPAIRED. D/SIDE WINDOW WASHER REPAIRED.'.
**03.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - AIR INTAKE ON COMPRESSOR LOOSE - REPAIRED.'.
**03.06.1993** Service defect: 'B - TRACTION MOTOR - ALL T/M'S IN VERY GOOD CONDITION. NO BRUSHES NEEDED TO BE CHANGED.'.
**02.07.1993** Service defect: 'UN - MAIN GENERATOR FLASHOVER - SLIGHT FLASH ON MAIN GEN. CHECKED OK.'.
**02.07.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - TRACTION MOTORS NO. 1, 2 AND 5 MINOR FLASH-OVERS. CHECKED OK.'.
**08.07.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - P2 CONTACTOR OPERATION CHECKED OK,A/C BLOWING AIR FROM BOTTOM SEALS.'.
**14.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - INTER-COOLER HOUSING BOLTS TIGHTENED A/C LOOSE. ENGINE ROOM FLOOR CLEANED. AIR TANK AND FAN COVER STRAP REPAIRED.'.
**23.08.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2 WICK REPLACED.'.
**23.08.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - CK1 AND CK2 AND FS21 CONTACTOR TIPS REPLACED.'.
**23.08.1993** Service defect: 'A - ELECT. MISC. - GAUGES & INSTRUMENTS - DYNAMIC BRAKE AMP GAUGE REPLACED.'.
**23.08.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - WHEEL SLIP GLOBES REPLACED AND BOTH ALARMS ADJUSTED.'.
**23.08.1993** Service defect: 'A - EXHAUST - SUPER CHARGER TO EXHAUST STACK REPLACED A/C LEAKING.'.
**23.08.1993** Service defect: 'A - MAIN GENERATOR - MAIN GEN. BRUSHED AND BLOWN OUT.'.
**23.08.1993** Service defect: 'A - L3 INNER SPRING BROKEN - TO MONITOR.23/8/93.'.
**23.08.1993** Service defect: 'A - CENTRE RADIATOR D/SIDE LARGE AREA OF BENT FINS TO'.
**23.08.1993** Service defect: 'A - MONITOR.23/8/93.'.
**20.09.1993** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED.'.
**08.11.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK ON TRIAL RUN.'.
**08.11.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - TIGHTENED DYN RHEOSTAT AND REPLACED 4 WIRE ON TB3.'.
**08.11.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - 'A'END NO LIGHT SWITCH REPLACED.'.
**08.11.1993** Service defect: 'UN - GENERAL - REPAIRED W/SCREEN WIPER 'A'END DRIVERS SIDE.'.
**08.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - D/SIDE HORN CORD REPLACED.'.
**17.11.1993** Service defect: 'C - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYN/BRAKE GRIDS REPLACED (DRIVERS SIDE), A/C BLOWN TO BITS]'.
**17.11.1993** Service defect: 'C - EXHAUST - SHORT EXHAUST BELLOWS REPLACED, A/C CRACKED.'.
**17.11.1993** Service defect: 'C - MECHANICAL EQUIPMENT - HAND BRAKE REPAIRED.'.
**07.12.1993** Service defect: 'UN - FUEL SYSTEM - FUEL BLOCKAGE FOUND IN FUEL PICK-UP LINE, CLEARED.'.
**16.12.1993** Service defect: 'TW - EXHAUST - EXHAUST CONCERTINA GASKETS REPLACED A/C BLOWN.'.
**22.12.1993** Service defect: 'UN - ENGINE WATER LEAK - ELBOW OF PIPE COMING FROM HEADER TANK LEAKING, CAUSING ENGINE TO OVERHEAT. PIPE JOINT TIGHTENED. NO FURTHER LEAK.'.
**22.12.1993** Service defect: 'UN - OTHER BODY REPAIRS - 'A'END YOKE REPLACED, A/C SHEARED.'.
**14.01.1994** Service defect: 'UN - COOLING SYSTEM OVERHEATING - ENGINE OVER HEATING. THERMOSTATS TESTED AND ADJUSTED, A/C SET TO HIGH. L.S 68 DEGEES. H.S 71, H.E 92 DEGREES.'.
**14.01.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - NO.4 HEAD CHANGED, A/C CRACKED. LINER SEAL REPLACED, A/C DAMAGED AND LEAKING.'.
**19.01.1994** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED FOR LOW TENSION EARTH. 150K AT 250V. DIRECTIONAND NOTCH TESTED AND RECEPTACLES TESTED OK. COULD'NT FAULT.'.
**23.01.1994** Service defect: 'TS - ENGINE WATER LEAK - TURBO WATER HOSE REPLACED, A/C SPLIT.'.
**31.01.1994** Service defect: 'TS - ENGINE - CRANKCASE EXHAUSTER REPLACED WITH UNIT EX 701 AND CHECKED OKR1 AND 2 CAM SECTION CHANGED, A/C WEAR ON LOBE.'.
**02.02.1994** Service defect: 'TS - COOLING SYSTEM - NEW THERMOSTATS FITTED.'.
**02.02.1994** Service defect: 'TS - DYNAMIC BRAKE - DYN/BRAKE GRID OBS/SIDE REPLACED, A/C FAULTY. D/B TESTED OK.'.
**02.02.1994** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - 17 WIRE ON BKR1 RELAY DISCONNECTED AND WIRE REPLACED.'.
**02.02.1994** Service defect: 'TS - FUEL SYSTEM INJECTORS - INJECTORS CHANGED AND PUMP TIMING DONE. LOAD TESTED.'.
**31.03.1994** Service defect: 'A - ENGINE - ENGINE EX 606 INSTALLED, SAME GEN USED.'.
**31.03.1994** Service defect: 'A - EXHAUST - ALL EXHAUST JOINTS TIGHTENED.'.
**31.03.1994** Service defect: 'A - FUEL SYSTEM INJECTORS - L1 INJECTOR CHANGED.'.
**31.03.1994** Service defect: 'A - MAIN GENERATOR BRUSHES - 32 MAIN GENERATOR BRUSHES CHANGED, A/C FRAYED PIGTAILS.'.
**13.04.1994** Service defect: 'TS - ENGINE - L2 POWER ASSEMBLY REPLACED, A/C DROPPED VALVE SEAT. FOREIGN MATERIAL REMOVED FROM ENGINE.'.
**13.04.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER

REPLACED, A/C BROKEN PIECES OF VALVE STEM FOUNDIN TURBO.'.

**13.04.1994** Service defect: 'TS - OIL FILTERS - ENGINE OIL FILTERS INSTALLED.'.

**15.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL LEAK REPAIRED.'.

**05.05.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO HATCH REPLACED.'.

**05.05.1994** Service defect: 'TS - EXHAUST - EXHAUST STACK REPLACED.'.

**05.05.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - NO 1 BRAKE CYLINDER (DRIVERS SIDE) REPLACED.'.

**05.05.1994** Service defect: 'TS - OTHER BODY REPAIRS - 'A'END DRIVERS SIDE STEPS REPAIRED.'.

**16.06.1994** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L1,L2,L5,L6,R2,R5 AND R6 WICKS REPLACED.'.

**16.06.1994** Service defect: 'D - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - ONE DYN/BRAKE GRID REPLACED, A/C BURNT.'.

**16.06.1994** Service defect: 'D - ENGINE WATER LEAK - VICTAULIC JOINT REPAIRED, A/C WATER LEAK.'.

**16.06.1994** Service defect: 'D - EXHAUST - R3 EXHAUST JOINT REPLACED.'.

**16.06.1994** Service defect: 'D - MECHANICAL EQUIPMENT SANDING GEAR - L4 SAND REPAIRED.'.

**16.06.1994** Service defect: 'D - TRACTION MOTOR - T/M BELLOW CHECKED OUT OK.'.

**16.06.1994** Service defect: 'D - TRACTION MOTOR SUSPENSION BEARING - NO 3 T/M AND WHEELSET REPLACED, A/C BURNT SUSPENSION BEARING'.

**21.06.1994** Service defect: 'UN - D/B DISCONNECTED, A/C PULLING 850AMPS. LOCO TO'.

**21.06.1994** Service defect: 'UN - TRAFFIC WITH NO D/B.21/94.'.

**27.06.1994** Service defect: 'UN - DYNAMIC BRAKE DISCONNECTED.27/6.'.

**28.06.1994** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE GRID REPLACED RHS, A/C ONLY MEGGERS 10 KOHMS. GRID REPLACED EX 701, LOCO MEGGERS 200 KOHMS, LOCO REVS OK.'.

**28.06.1994** Service defect: 'UN - EXHAUST - SOME EXHAUST JOINTS REPAIRED ON ENGINE.'.

### 703

Details: locomotive '703 H' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $293800
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-4
**Date Built:** 02.12.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**BSG Code:** LBAQ

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 06.10.1988 | | |
| SW Service Mileage: | 1126404 KM | SW Service Date: | 30.10.1995 |
| A Service Mileage: | 1088595 KM | A Service Date: | 09.09.1995 |
| B Service Mileage: | 974668 KM | B Service Date: | 17.10.1994 |
| C Service Mileage: | 1068283 KM | C Service Date: | 24.06.1995 |
| D Service Mileage: | 1114693 KM | D Service Date: | 04.12.1995 |
| E Service Mileage: | 630145 KM | A Service Date: | 17.06.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 06.10.1988 |
| WT Service Mileage: | 599304 KM | WT Service Date: | 10.05.1993 |
| US Service Mileage: | 1124684 KM | A Service Date: | 01.02.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**13.08.1987** Alteration complete 'CONVERT 6 700 CLASS D.E. LOCOMOTIVES FROM 1435 GAUGE TO 1600 GAUGE. (RS4212)'.

**13.07.1989** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO3 WHEELSET CHANGED A/C SUPPORT BEARING.'.

**13.07.1989** Service defect: 'TS - ENGINE CYLINDER HEADS - L3 CYL HEAD CHANGED A/C CRACKED.'.

**14.07.1989** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R6 WICK RENEWED.'.

**23.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - 'A'END HEATER BOOKED DEFECTIVE.LUG REPLACED ON 44 WIRE IN PEDESTAL A/C BLOWN OFF.'.

**23.07.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - L1 CYL HEAD CHANGED.'.

**23.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 'A'END SAND PIPES REPAIRED.'.

**24.07.1989** Service defect: 'UN - BOGIE - 'B'END RHS SHOCK ABSORBER CHANGED.'.

**28.07.1989** Service defect: 'SW - TRACTION MOTOR - CLEAT ON NO5 TM REPAIRED.'.

**08.08.1989** Service defect: 'UN - BOGIE - L4 SPREADER BAR REPLACED.'.

**15.08.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - 34B WIRE BLOWN OFF ON TB3.BOTH LUGS REPLACED.HEATER CHECKED OK.'.

**02.09.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L6 WICK RENEWED.'.

**15.09.1989** Service defect: 'UN - TRACTION MOTOR - NO 5 TM CHANGED A/C BROKEN GEARCASE LUG.(IN 290676 OUT TM HAS NO NUMBER).'.

**26.09.1989** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - L1 SPRING REPLACED.26/9'.

**26.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - NO.1 PAIR SAND PIPES REPLACED.26/9.'.

**28.09.1989** Service defect: 'UN - FUEL SYSTEM - PRIMARY & SECONDRY FUEL FILTERS CHANGED,IDLE FUEL PRESSURE ADJUSTED TO 35PSI A/C LOW FUEL PRES.NOTCH 8*28/9.'.

**05.10.1989** Service defect: 'UN - FUEL SYSTEM - BOOKED FOR FUEL LEAK.BROKEN SCEW FOUND IN L6 BUS RAIL TO FUEL PUMP BRANCH PIPE.REPAIRED.'.

**23.10.1989** Service defect: 'TS - -

**23.10.1989** Service defect: 'TS - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED A/C LOOSE IMPELLER.'.

**23.10.1989** Service defect: 'TS - ENGINE CYLINDER HEADS - ALL CYL HEADS REMOVED & WATER TESTED.R2 & R5 REPLACED A/C CRACKED.'.
**23.10.1989** Service defect: 'TS - ENGINE LINER - R2 PISTON & LINER RENEWED A/C PICKED UP.'.
**23.10.1989** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.
**23.10.1989** Service defect: 'TS - FUEL SYSTEM INJECTORS - INJECTORS CHANGED.'.
**23.10.1989** Service defect: 'TS - LUBRICATING SYSTEM - OIL CHANGED.'.
**10.11.1989** Service defect: 'UN - ENGINE - AFTER COOLER CHANGED A/C LEAKING.'.
**10.11.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - R6 CYL HEAD CHANGED A/C CRACKED.'.
**14.11.1989** Service defect: 'UN - ENGINE - ENGINE OIL FILTERS CHANGED A/C ENGINE SHUT DOWN.'.
**21.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REALIGNED,SAND PIPE HOSES REPLACED.'.
**21.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END T/PIPE COCK REPLACED.'.
**28.11.1989** Service defect: 'B - BOGIE MAINTENANCE - WICKS - 2 WICKS REPLACED.'.
**28.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR BREATHER DIAPHRAM REPLACED.'.
**28.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - ALL SAND PIPES REPAIRED & REALIGNED.'.
**02.12.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN COMM CLEANED A/C BURNT,V RING CLEANED.'.
**14.01.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - RT2 DIODE REPLACED A/C ENGINE SPEED NOT RETURNING TO IDLE.'.
**05.04.1990** Service defect: 'UN - AUXILLARY MACHINES - EXCITER CHANGED A/C POOR WIRE CONDITION.(IN 261223).'.
**22.04.1990** Service defect: 'UN - FUEL SYSTEM LINES - L3.R3 HIGH PRESSURE FUEL LINE REPLACED A/C LEAKING.'.
**18.05.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - BOOKED FOR NO TRANSITION,CHECKED OK IN DEPOT.'.
**26.05.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C OIL.'.
**29.05.1990** Service defect: 'A - MAIN GENERATOR - MAIN GEN WASHED OUT.'.
**29.05.1990** Service defect: 'A - TRACTION MOTOR BRUSHES - BRUSHES CHANGED IN NO2 TM A/C PIGTAILS.'.
**05.07.1990** Service defect: 'UN - TRACTION MOTOR - NO 4 TM CHANGED A/C AXLE BOX BEARING BURNT.(IN 290716 OUT 7378668).'.
**24.09.1990** Service defect: 'UN - BOGIE - 'B'END SAFETY BRACKET REPLACED,A/C MISSING'.
**09.10.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - R6 CYLINDER HEAD CHANGED A/C BROKEN VALVE SEAT.'.
**06.02.1991** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GENERATOR BURNT OUT A/C GROUND RELAYS'.
**06.02.1991** Service defect: 'TS - AIR CONDITIONER TO FIT,MAIN GENERATOR ATTENTION,'.
**06.02.1991** Service defect: 'TS - BOGIE ATTENTION,'.
**01.07.1991** Service defect: 'SW - TO BE LOAD TESTED AT MOTIVE POWER CENTRE.'.
**02.07.1991** Service defect: 'SW - FUEL SYSTEM INJECTORS - INJECTORS CHANGED.'.
**02.07.1991** Service defect: 'SW - GENERAL - LOCO DISCONNECTED FROM LOAD TANK.LOCO POWERED IN BOTH DIRECTIONS OK.'.
**10.07.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON DYN/BRAKE TANK,REPLACED 1 GRID & CLEANED INSULATORSMEGGERED - FRONT P1=100K. BACK P1= 20K.REPLACED ALL COVERS &'.
**02.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE FAULTY.UNIT REPLACED'.
**26.09.1991** Service defect: 'A - OTHER BODY REPAIRS - SIDE WINDOW FITTED.'.
**03.10.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.
**03.10.1991** Service defect: 'UN - ENGINE WATER LEAK - ENGINE WATER LEAK REPAIRED.'.
**03.10.1991** Service defect: 'UN - EXHAUST - EXHAUST BOLTS TIGHTENED.LONG EXHAUST CONCERTINA REPLACED.'.
**03.10.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL INJECTORS REPLACED.'.
**04.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - FAST COUPLING FILLED WITH CRATER NO.5.'.
**11.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B' END AUTO COUPLER REPLACED.'.
**31.10.1991** Service defect: 'TS - ENGINE - WATER LEAK ON AFTERCOOLER REPAIRED.FAST COUPLING REPLACED.'.
**31.10.1991** Service defect: 'TS - FUEL SYSTEM PUMP - L1,L6,R1 & R6 FUEL PUMPS REPAIRED,A/C FUEL LEAKS.'.
**13.11.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - 2ND TRANSITION CAN REPLACED,A/C WELDED CONTACTS(LOCO WAS LACKING POWER IN NOTCH 8).'.
**10.01.1992** Service defect: 'UN - OTHER BODY REPAIRS - SERVICE WATER TANK REPLACED AND TESTED OK.'.
**14.04.1992** Service defect: 'UN - GENERAL - AIR FRIDGE SECURED.DRIVERS WINDOW REPAIRED.HANDBRAKE REPAIRED.ENG ROOM DOOR SEAL REPAIRED.'.
**14.04.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES COCK REPLACED.'.
**04.05.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - SLIGHT OIL LEAK FROM COMPRESSOR REPAIRED.OK.'.
**04.05.1992** Service defect: 'A - CRANKCASE EXHAUSTER NOISY TO MONITOR.'.
**13.07.1992** Service defect: 'UN - BOGIE - ALL CRACKED AXLE BOXE WEAR PLATES WELDED. SHOCKER BRACKET L1 REWELDED. A/C CRACKED.'.
**28.07.1992** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN.HAD SLIGHT FLASH.P=4M/OHMS.'.
**04.08.1992** Service defect: 'C - AUXILLARY MACHINES - AUX.

GENERATOR REPLACED A/C BEARING U/S AND EARTH FAULT. AUX. GEN. AG51 SERIAL NO.265010 REMOVED.'.

**04.08.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - WICKS CHANGED-R1-L2-L4-L5-R5.'.

**04.08.1992** Service defect: 'C - ENGINE LINER - LINERS INSPECTED -NO SIGN OF ANY WATER LEAKS.'.

**04.08.1992** Service defect: 'C - TRACTION MOTOR - ADJUSTED BRUSH HOLDER AND FILED OUT ANOTHER ON T/M NO.6.'.

**04.08.1992** Service defect: 'C - R1 METAL FLEX JOINT-FUEL RAIL TO PUMP TO CHANGE'.

**04.08.1992** Service defect: 'C - NEXT SERVICE.A/C LEAKING.5/8/92.'.

**28.08.1992** Service defect: 'UN - GENERAL - 'A' END FRIDGE REPAIRED A/C LOOSE CONTROL VALVE.'.

**28.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - A.B.V. EXHAUST REPAIRED A/C BLOWING.'.

**14.09.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER REPAIRED USING COMPONENTS FROM 704,A/C REVERSER CONTACTS BURNT CAUSING W/SLIP.'.

**14.09.1992** Service defect: 'UN - SERVICE WATER TANK PIPE BLOCKED TO TAP,TO REPAIR.'.

**14.09.1992** Service defect: 'UN - 14/9.'.

**15.09.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER LUBRICATED,CONTACT TIPS FF3 & F3 REPLACED,BRIDGE CONTACT 4IP REPLACED,A/C FLASHOVER ON REVERSER.'.

**15.09.1992** Service defect: 'UN - TRACTION MOTOR - ALL T/M'S CHECKED OK.'.

**16.09.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED,FUEL LEAK ON R1.METAFLEX JOINT TIGHTENED.'.

**15.10.1992** Service defect: 'A - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL FAULT CHECKED OK.'.

**15.10.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - ALARM BELL REPAIRED.'.

**15.10.1992** Service defect: 'A - B END BLIND REPAIR, NIL STOCK. A END OBS MIRROR TO'.

**15.10.1992** Service defect: 'A - REPLACE.NIL STOCK. AIR CON COMPRESSOR DOES NOT'.

**15.10.1992** Service defect: 'A - CUT IN.15/10.'.

**27.10.1992** Service defect: 'UN - AUXILLARY MACHINES - REPAIRED AGAI CONNECTION IN AUX GEN, A/C HOT JOINT. REPLACEDVR. LOCO CHARGING OK.'.

**11.11.1992** Service defect: 'UN - ENGINE WATER LEAK - WATER PIPE LEAK REPAIRED.'.

**11.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR INTERCOOLER REPAIRS COMPLETED.'.

**27.11.1992** Service defect: 'UN - ENGINE - HEAT EXCHANGER REPAIRED & INSTALLED, LOCO RUN UP & WATER FLUSHED OUT WITH DETERGENT. NEW COOLANT ADDED.'.

**14.12.1992** Service defect: 'UN - AIR CONDITIONING - AIR CON CHECKED OK.'.

**14.12.1992** Service defect: 'UN - GENERAL - ENGINE ROOM WINDOW REPLACED, A/C BROKEN.'.

**07.01.1993** Service defect: 'B - BOGIE - AXLE BOX WEAR PLATES WELDED ,A/C CRACKS.'.

**07.01.1993** Service defect: 'B - ENGINE CYLINDER HEADS - R1 HEAD REPAIRS COMPLETED.'.

**07.01.1993** Service defect: 'B - FUEL SYSTEM INJECTORS - L6 INJECTOR CHANGED.'.

**07.01.1993** Service defect: 'B - FUEL SYSTEM LINES - FUEL RETURN LINE TO TANK REPAIRED.'.

**07.01.1993** Service defect: 'B - GENERAL - ENGINE ROOM WINDOW REPLACED.'.

**07.01.1993** Service defect: 'B - MAIN GENERATOR - M/GEN BRUSHES BEDDED IN & AIR CURED.'.

**23.02.1993** Service defect: 'TS - AUXILLARY MACHINES - EXCITER CHANGED A/C BURNT COMMUTATOR SEGMENTS & BURNING ON TRAILING EDGE OF BRUSH HOLDERS.'.

**23.02.1993** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHARGED A/C FLAT.'.

**23.02.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR DRIVE SHAFT REPLACED A/C SHEARED.'.

**23.02.1993** Service defect: 'TS - EXHAUST - TURBO EXHAUST BOLTS TIGHTENED.'.

**23.02.1993** Service defect: 'TS - OTHER BODY REPAIRS - RHS DOOR LATCH REPAIRED & ENGINE ROOM AUTOMATIC DOOR CLOSER REPLACED.'.

**23.02.1993** Service defect: 'TS - OVERHEATING - ALL THERMOSTAT SETTINGS CORRECTED A/C FAN COMING IN TOO LATE & HOT ENGINE ALARM SETTING CHECKED OK.'.

**15.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - INTERCOOLER ON COMPRESSOR REPLACED,A/C BLOWN APART.NEW SAFETY VALVES FITTED.'.

**24.03.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L5 & R4 WICKS REPLACED.'.

**24.03.1993** Service defect: 'A - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 6 GRIDS REPLACED,A/C BURNT OUT.'.

**24.03.1993** Service defect: 'A - EARTH FAULT MISCELLANEOUS - EARTH IN EXCITER REPAIRED.'.

**24.03.1993** Service defect: 'A - FUEL SYSTEM - DYNA CELL FILTER REPLACED, FUEL CAP REPLACED.'.

**06.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - L4 BRAKE CYLINDER REPLACED, A/C LEAKING.'.

**06.05.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - PRESSURISING FAN BEARINGS GREASED.'.

**17.06.1993** Service defect: 'E - BOGIE - R3 & L4 SHOCKER BRACKETS WELDED,A/C CRACKED. WICKS REPLACED.PEDESTAL LINERS REWELDED. HORIZONTAL SHOCKERS - BUSHES'.

**17.06.1993** Service defect: 'E - DYNAMIC BRAKE - REPLACED D/BRAKE FAN BRUSH,A/C FRAYED PIGTAILS.'.

**17.06.1993** Service defect: 'E - ELECT. MISC. - GAUGES & INSTRUMENTS - REPLACED LUGS TO GAUGE LIGHT RES 'A' & 'B'END,A/C BURNT.'.

**17.06.1993** Service defect: 'E - ELECTRICAL MISCELLANEOUS - REPAIRED CABLE TO DMR COIL,CHECKED OK.'.

**17.06.1993** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED. EXTERNAL AIR SUPPLY FITTED TO TURBO.'.

**22.06.1993** Service defect: 'UN - TRACTION MOTOR - NO 6 T/MOTOR REPLACED,A/C ARMATURE TO EARTH. MOVEMENT TESTEDOK.'.

**29.06.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 6 T/MOTOR REPLACED,A/C GROUND RELAYS.'.
**15.07.1993** Service defect: 'SW - DYNAMIC BRAKE - 3 DYN/BRAKE GRIDS REPLACED. DYN/BRAKE BLOWER MOTOR REPLACED.DYN/BRAKE SET UP. LOCO OK ON TRIAL RUN.'.
**15.07.1993** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - FEEDBACK WIRES REPAIRED.'.
**15.07.1993** Service defect: 'SW - VIGILANCE - VIGILANCE GASKET REPLACED,TESTED OK.'.
**30.07.1993** Service defect: 'UN - D/B DISCONNECTED, A/C BUSBAR IN TANK MELTED. NO'.
**30.07.1993** Service defect: 'UN - D/B. AWAITING NEW BUSBAR.30/7.'.
**05.08.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE GRIDS - TIGHTENED INSULATORS & REPLACED BUSBAR, A/C BLOWN. COVERS REPLACED.'.
**13.08.1993** Service defect: 'UN - BOGIE - SNUBBER BEARINGS RE-WELDED AND INSTALLED.'.
**13.08.1993** Service defect: 'UN - EXHAUST - EXHAUST CONNECTOR REPLACED.'.
**13.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE WINDOW REPAIRED. LATCH REMOVED FROM BL29.'.
**30.08.1993** Service defect: 'A - BOGIE - L4 SHOCK ABSORBER BRACKET REPLACED.'.
**30.08.1993** Service defect: 'A - ENGINE WATER LEAK - WATER LEAK AT TURBO REPAIRED.'.
**30.08.1993** Service defect: 'A - CRACK IN FLOOR NEXT TO COMPRESSOR,LH SIDE.30/8.'.
**07.09.1993** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYN/BRAKE GRIDS OBSERVERS SIDE REMOVED, A/C BURNT OUT. 17 WIRE REMOVED FROM BKR TO ISOLATE DYNAMIC.'.
**07.09.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - RADIO ANTENNA MOD - HOLE DRILLED & PLATE FITTED TO DRIVERS SIDE 'A'END.'.
**07.09.1993** Service defect: 'TS - DYN/BRAKE DISCONNECTED.7/9.'.
**15.09.1993** Service defect: 'UN - AUTO BRAKE VALVE EXHAUST IS TOO NOISY - SECONDARY'.
**15.09.1993** Service defect: 'UN - EXHAUST IS VENTED WITHIN BRAKE PEDESTAL- TO PIPE'.
**15.09.1993** Service defect: 'UN - OUT OF CAB.15/9.'.
**28.09.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - LOCO MEGGERED OK, TRIAL RUN OK, A/C GR'S. RELEASED TO CONTROL ENGINE.'.
**05.10.1993** Service defect: 'UN - NO FAULT FOUND - SHUTTING DOWN AND LOSS OF POWER. - SENT ON STANVAC TRIAL RUN AND NO FAULT FOUND.'.
**13.10.1993** Service defect: 'UN - EXHAUST - LONG EXHAUST CONNECTOR REPLACED A/C CRACKED. REPAIRED ON NO.6 ROAD.'.
**10.11.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE ADJUSTED TO 600A RATED GRIDS. LOCO OK ON TRIALRUN. GRID CURRENT MAX- 510A BLWR VOLTAGE MAX 285V.'.
**10.11.1993** Service defect: 'UN - FUEL SYSTEM - FUEL PIPE REPAIRED.'.
**15.11.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE WORKED OK ON TRIAL RUN AT ALL SPEEDS.'.
**15.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOADMETER INCORRECT - SHUNT 14.5A @ 300A - OK. 550A @ 30KMH 15PSI BOOST 320A @ 60KMH. LOCO PULLING OK. LR CONSTANT 10
**19.11.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - COUPLER 'B'END CHANGED.'.
**19.11.1993** Service defect: 'B - OTHER BODY REPAIRS - SNUBBER BUSH REWELDED 'B'END DRIVERS SIDE, A/C WELD CRACKED.'.
**05.01.1994** Service defect: 'UN - BLOCKED FILTERS - LOW OIL PRESSURE ALARM SOUNDING. 30PSI IN IDLE, 50PSI IN NOTCH 8. OIL FILTERS CHANGED. 45PSI IN IDLE. 90PSI NOTCH8.'.
**05.01.1994** Service defect: 'UN - BOGIE - L3 SPREADER BAR STRAIGHTENED A/C BENT.'.
**07.01.1994** Service defect: 'UN - VIGILANCE - NO.19 DOUBLE CHECK VALVE CHANGED.'.
**19.01.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES. CHANGED, A/C DAMAGED IN TRAFFIC, AIR PIPES REPAIRED AND REPLACED. BRACKETS REPAIRED AND REPLACED.'.
**26.01.1994** Service defect: 'TW - BOGIE - L4 SHOCKER AND MOUNTING BRACKET REPLACED, A/C BROKE IN WHILEIN TRAFFIC.'.
**03.02.1994** Service defect: 'A - BOGIE - 13 AXLE BOX LINERS REWELDED, A/C CRACKED.'.
**03.02.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - LOW WATER & HOT ENGINE LIGHT GLOBES REPLACED. WARNING LIGHT GLOBES 'B'END REPLACED.'.
**03.02.1994** Service defect: 'A - ENGINE GOVERNOR - GOVERNOR REPLACED, A/C LOCO SHUT DOWN UNABLE TO RESTART.'.
**03.02.1994** Service defect: 'A - EXHAUST - EXHAUST REWELDED.'.
**03.02.1994** Service defect: 'A - FUEL SYSTEM PUMP - L2 FUEL PUMP REPLACED, A/C LEAKING.'.
**03.02.1994** Service defect: 'A - LUBRICATING SYSTEM - OIL CHANGED, A/C FUEL DILUTION. ROLLER LUBE OIL LINE ON R2 REPLACED.'.
**21.02.1994** Service defect: 'UN - ENGINE - L2 INJECTOR AND FUEL PUMP CHANGED, A/C ENGINE RUNNING ROUGH.'.
**21.02.1994** Service defect: 'UN - LUBRICATING SYSTEM LOW OIL PRESSURE - LOW OIL PRESSURE - OIL PRESSURE INCREASED TO APPROX 48LBS IDLE AND 90LBS MAX REV'S.'.
**18.04.1994** Service defect: 'UN - EXHAUST - EXHAUST MANIFOLD REPAIRS COMPLETED.'.
**18.04.1994** Service defect: 'UN - GENERAL - DOOR SEAL FITTED.'.
**18.04.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - PRESSURISING FAN SHAFT REPLACED (EX 701).'.
**23.04.1994** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1,L2,R4 AND L5 WICKS REPLACED.'.
**23.04.1994** Service defect: 'C - CONTACTOR MISCELLANEOUS - CONTACT TIPS REPLACED, A/C CRACKED.'.
**23.04.1994** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - AIR VALVE ON TURBO AIR SUPPLY REPIARED.'.
**23.04.1994** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - L4 SANDER PIPES REPLACED.'.
**23.04.1994** Service defect: 'C - VIGILANCE - VIG TIMING

ADJUSTED.'.

**28.04.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT ON SANDING CIRCUIT REPAIRED. C= 5MOHMS. P= 100K.'.

**04.05.1994** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.

**04.05.1994** Service defect: 'UN - GENERAL - HANDLE FITTED TO 'B'END CAB DOOR.'.

**04.05.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**07.05.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO HEAD REPLACED, A/C BURNT OUT.'.

**07.05.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 4 HEAD CHANGED, A/C OIL LEAK. NEW INJECTOR FITTED.'.

**07.05.1994** Service defect: 'UN - FUEL SYSTEM - FUEL LEAKS REPAIRED.'.

**07.05.1994** Service defect: 'UN - FUEL SYSTEM LINES - NO 2 AND 6 HIGH PRESSURE FUEL LINES REPLACED.'.

**24.05.1994** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - 'B'END YOKE CHANGED.'.

**29.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - 'B'END AUTO BRAKE VALVE CHANGED, TESTED OK.'.

**99.99.9999** Service defect: 'SW - SCHEDULED WORK'.

**704**

Details: locomotive '704 Q' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $293800
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-4
**Date Built:** 06.01.1972
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**BSG Code:** LBAQ

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 15.12.1989 | | |
| SW Service Mileage: | 989964 KM | SW Service Date: | 29.09.1994 |
| A Service Mileage: | 1148169 KM | A Service Date: | 17.09.1996 |
| B Service Mileage: | 1135059 KM | B Service Date: | 25.06.1996 |
| C Service Mileage: | 1173746 KM | C Service Date: | 15.01.1997 |
| D Service Mileage: | 464077 KM | D Service Date: | 23.12.1991 |
| E Service Mileage: | 914814 KM | A Service Date: | 23.05.1994 |
| F Service Mileage: | 215698 KM | A Service Date: | 15.12.1989 |
| WT Service Mileage: | 335475 KM | WT Service Date: | 07.06.1991 |
| US Service Mileage: | 1184834 KM | A Service Date: | 11.02.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**13.08.1987** Alteration complete 'CONVERT 6 700 CLASS D.E. LOCOMOTIVES FROM 1435 GAUGE TO 1600 GAUGE. (RS4212)'.

**20.07.1989** Service defect: 'UN - EXHAUST - EXHAUST PIPE GASKETS RENEWED.SHORT EXHAUST CONNECTOR REPLACED.'.

**25.07.1989** Service defect: 'SW - CONTACTOR MISCELLANEOUS - BLOCK & TUBING ON P22 REPLACED A/C TUBING CRACKED.'.

**25.07.1989** Service defect: 'SW - TRACTION MOTOR EARTH - NO4 TM FIELD ZERO.TM DRIED OUT A/C MOISTURE.'.

**02.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CHANGED A/C FAULTY.'.

**15.12.1989** Service defect: 'F - GENERAL - ENGINE OVERHAUL AS PER SERVICE SHEETS - LOCOMOTIVE O/HAUL OUTPUT SET ON LOAD TANK'.

**15.12.1989** Service defect: 'F - GENERAL - MODS & ALT M124AD M141AD M144AD M145AD M146AD M157AD M158AD M193AD COMPLETED'.

**15.12.1989** Service defect: 'SW - LIGHT RUN TO T B ,FULL WICK INSP.'.

**04.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE VALVE EXHAUST SILENCED.'.

**10.01.1990** Service defect: 'UN - SENT TO ISL A/C ENGINE OIL PUMP TO CHANGE.'.

**10.01.1990** Service defect: 'UN - AXLE BOX SPRINGS TO REPLACE.'.

**16.03.1990** Service defect: 'SW - BOGIE MAINTENANCE - SPRINGS - SPRING MODIFICATIONS THE 8 MM PEDESTAL LINERS WERE REMOVED AND REPLACED WITH 6 MM'.

**17.03.1990** Service defect: 'UN - VIGILANCE - NO 19 DOUBLE CHECK VALVE RENEWED.'.

**09.04.1990** Service defect: 'UN - ENGINE - ENGINE HOLDING DOWN BOLTS & GENERATOR MOUNTING BOLTS CHECKEDOK.'.

**09.05.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - 4 WIRE TO F/MANS SIDE LIGHT REPAIRED.'.

**26.05.1990** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP REPLACED.'.

**04.06.1990** Service defect: 'A - DYNAMIC BRAKE - ONE GRID & ONE INSULATOR REPLACED A/C EARTH.'.

**21.06.1990** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR SHUTTING DOWN.OIL STRAINER & FILTERS CHANGED.'.

**19.07.1990** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R5,L5,R6 WICKS REPLACED.'.

**06.09.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - RADIATOR FAN BOOKED NOISY.CHECKED OK.'.

**06.09.1990** Service defect: 'UN - RADIATOR FAN TOP BEARING TO MONITOR.6/9*'.

**17.09.1990** Service defect: 'UN - BOGIE - SHOCKER REPLACED.'.

**20.09.1990** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - RT3 DIODE REPLACED.'.

**13.11.1990** Service defect: 'UN - BOGIE - 'A'END RHS SHOCKER REPLACED.'.

**29.12.1990** Service defect: 'TS - TRACTION MOTOR FLASHOVER - BLOWN LUG ON NO.5 T/MOTOR LEAD - REPLACED'.

**17.01.1991** Service defect: 'UN - BOGIE - FRONT SPREADER BAR REPLACED. NO. 4 LHS BRAKE STRAP REPLACED.'.

**22.01.1991** Service defect: 'SW - GENERAL - V/LINE AFULE REPAIRS COMPLETED'.

**07.03.1991** Service defect: ‘TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY - MAIN GENERATOR BRUSH RING REMOVED AND WELDED A/C CRACKED THROUGH BRUSH HOLDER. RING REINSULATED AND’.
**07.03.1991** Service defect: ‘TS - ELECTRICAL MISC. GROUND RELAY - INSTALLED. LOCO TESTED AND MEGGERED OK.’.
**26.03.1991** Service defect: ‘B - AUXILLARY MACHINES - REPLACED FUEL PUMP MOTOR,A/C WORN COM ON OLD MOTOR.’.
**28.03.1991** Service defect: ‘UN - ENGINE GOVERNOR - GOVERNOR & MOUNT REPLACED.EX 701.’.
**28.03.1991** Service defect: ‘UN - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED.’.
**24.05.1991** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - ‘B‘END YOKE & PACKAGE REPLACED,A/C YOKE BROKEN.’.
**05.06.1991** Service defect: ‘A - BOGIE - R1 SHOCKER REPLACED,LATERAL INSIDE.’.
**05.06.1991** Service defect: ‘A - FUEL SYSTEM INJECTORS - R1 R3 R5 & R6, L1 L3 & L4 INJECTORS CHANGED.’.
**05.06.1991** Service defect: ‘A - MAIN GENERATOR - 20 MAIN GEN BRUSHES REPLACED,A/C SHORT.’.
**05.06.1991** Service defect: ‘A - TRACTION MOTOR BRUSHES - 22 T/M BRUSHES REPLACED.’.
**05.06.1991** Service defect: ‘A - OIL PRESSURE SWITCH TO REPLACE,A/C LEAKING.’.
**26.06.1991** Service defect: ‘UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 3 DYN/BRAKE GRIDS REPLACED,A/C BURNT OUT.’.
**19.07.1991** Service defect: ‘UN - BATTERY MAINTENANCE - BATTERIES PUT ON CHARGER,71.4 IN NOTCH 8,COMPLETED.’.
**19.07.1991** Service defect: ‘UN - EXHAUST - 2 EXHAUST GASKETS REPLACED, A/C LEAKS.’.
**07.08.1991** Service defect: ‘C - BATTERY MAINTENANCE - 1 BATTERY CHANGED, A/C OPEN CIRCUITED.’.
**07.08.1991** Service defect: ‘C - CONTACTOR MISCELLANEOUS - CRANKING CONTACTS CHANGED, A/C MELTED & CK2 MELTED IN.’.
**07.08.1991** Service defect: ‘C - TRACTION MOTOR - NO 6 T/MOTOR LEADS TIED A/C RUBBING.’.
**16.08.1991** Service defect: ‘UN - GENERAL - WINDOW REPLACED.SEAT REPLACED,NO1 END.DOOR DAMPERS INSTALLED’.
**26.08.1991** Service defect: ‘UN - BATTERY MAINTENANCE - ALL BATTERIES REPLACED.’.
**26.08.1991** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - DIODE IN BCP CIRCUIT RELACED, A/C FAULTY.’.
**26.08.1991** Service defect: ‘UN - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE CHANGED,TESTED OK.’.
**30.10.1991** Service defect: ‘A - MECHANICAL EQUIPMENT SANDING GEAR - ‘A‘END BOGIE REAR SAND PIPES REPLACED,A/C MISSING.’.
**30.10.1991** Service defect: ‘A - TRACTION MOTOR - NO 5 T/MOTOR VEED OUT,A/C COPPER DRAG.’.
**30.10.1991** Service defect: ‘A - VIGILANCE - NO 19 DOUBLE CHECK VALVE CHANGED,A/C VIG CONTROL FAULT.’.
**28.11.1991** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - FLATS,SENT TO WTM.’.
**23.12.1991** Service defect: ‘D - TRACTION MOTOR - NO.3 T/M REPLACED.CABLE INSULATED AGAINST SLIGHT BURN MARK.’.
**17.01.1992** Service defect: ‘TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR ORIFICE TESTED OK.’.
**17.01.1992** Service defect: ‘TS - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER REPLACED,M.R. SAFETY VALVE REPLACED & EMERGENCY VALVE REPLACED.BRAKE TESTED OK.’.
**17.01.1992** Service defect: ‘TS - RADIO REPAIR - RADIO REPAIRS COMPLETED.’.
**21.02.1992** Service defect: ‘UN - FUEL SYSTEM PUMP - L6 FUEL PUMP BRACKET REPAIRED A/C CRACKED.’.
**21.02.1992** Service defect: ‘UN - LUBRICATING SYSTEM LOW OIL PRESSURE - LOW OIL PRESSURE,PRESSURE INCEASED.’.
**21.02.1992** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK IN’A’CONTROL STAND REPAIRED.’.
**05.03.1992** Service defect: ‘UN - DYNAMIC BRAKE - DYNAMIC BRAKE POTENTIOMETER REPLACED OK.’.
**05.03.1992** Service defect: ‘UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYNAMIC BRAKE GRIDS REMOVED AND REPLACED A/C BURNT.’.
**11.03.1992** Service defect: ‘A - BOGIE MAINTENANCE - WHEELS - WHEEL SKIDS INSPECTED .ONLY SMALL OK.’.
**11.03.1992** Service defect: ‘A - ELECTRICAL MISC - FUSES/HOLDERS - OIL PRESSURE SWITCH REPAIRED A/C LEAKING.’.
**11.03.1992** Service defect: ‘A - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO B/VALVES BOTH ENDS REPAIRED A/C AIR LEAKS.’.
**11.03.1992** Service defect: ‘A - VIGILANCE - VIGILANCE NOW WORKING OK.’.
**23.03.1992** Service defect: ‘UN - ELECTRICAL MAINTENANCE -WIRING - CONDUIT BROKEN ‘B’ END CORNER OF ENGINE ROOM ABOVE VIGILANCEEQUIP.4 WIRE BROKEN. REPLACED.’.
**23.03.1992** Service defect: ‘UN - ELECTRICAL MISC - FUSES/HOLDERS - HOT PLATE EARTH AND SWITCH REPAIRED.’.
**25.03.1992** Service defect: ‘UN - GROUND RELAYS IN DYNAMIC.-SENT INTO TRAFFIC BEFORE’.
**25.03.1992** Service defect: ‘UN - LOCO WAS REPAIRED.’.
**06.04.1992** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - BLOCKING DIODE RT1 REPLACED,A/C SHORTED.REVS CHECKED OK.DYN & POWER TESTED OK.’.
**05.06.1992** Service defect: ‘C - BOGIE - L5 AXLE BOX WEAR PLATE INSTALLED.’.
**05.06.1992** Service defect: ‘C - BOGIE MAINTENANCE - WICKS - L2,R2,L6 & R5 WICKS CHANGED.’.
**05.06.1992** Service defect: ‘C - MECHANICAL EQUIPMENT COUPLER - KNUCKLE REPLACED ‘B‘END.’.
**05.06.1992** Service defect: ‘C - TRAIN PIPE DROPPED 15LB,TO MONITOR.5/6.’.
**17.06.1992** Service defect: ‘UN - ELECTRICAL MISC. TRANSITION - NO 4 WHEEL SET & T/MOTOR CHANGE.’.
**17.06.1992** Service defect: ‘UN - FUEL SYSTEM INJECTORS - ALL INJECTORS REPLACED.’.
**25.06.1992** Service defect: ‘UN - FUEL SYSTEM - FUEL FILTER BOWLS REMOVED AND CLEANED-NEW FILTERS FITTED.’.

**25.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - EXCESS OIL AND FUEL WASHED FROM ROOF.-ENGINE ROOM WASHED.'.
**02.07.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON WHEELS CHECKED OK.-SLIGHT SHALE BUILD UP ON WHEELS.'.
**02.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 25 PSI RELEASE VALVE REPLACED.A/C LEAKING.-NO.19 CHECK VALVE REPLACED.'.
**08.07.1992** Service defect: 'UN - BATTERY MAINTENANCE - TOP LEFT BATTERY REPLACED A/C BLOWN TERMINAL.'.
**31.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 45LB REDUCING VALVE REPLACED A/C SEIZED. BRAKE HANGAR REPAIRED.'.
**31.07.1992** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT REPAIRED.'.
**03.08.1992** Service defect: 'UN - REVERSER - CONTROL AIR PRESSURE ADJUSTED FROM 50PSI TO 70PSI A/C REVERSER NOT THROWING OVER.'.
**12.08.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 'A'END D/S HEATER REPAIRED AND WIRING REPAIRED.'.
**12.08.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO HOUSING REPLACED. A/C LOOSE.'.
**12.08.1992** Service defect: 'A - OTHER BODY REPAIRS - OBSERVERS SIDE SEAT AIR LINE REPAIRED.'.
**12.08.1992** Service defect: 'A - TRACTION MOTOR SUSPENSION BEARING - L1, L2, R1, R2 SUSPENSION BEARING CAP BOLTS REWIRED.'.
**24.09.1992** Service defect: 'UN - BOGIES TO CHANGE'.
**06.01.1993** Service defect: 'B - BOGIE - NEW BOGIES FITTED AT ISLINGTON.'.
**06.01.1993** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - 350W GLOBES FITTED.'.
**06.01.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 75V MAGNET VALVE ON COMPRESSOR UNLOADER REPLACED.'.
**08.01.1993** Service defect: 'SW - GENERAL - DOUBLE CHECK VALVE REPAIRED VIG OK.'.
**21.01.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHECKED OK.'.
**21.01.1993** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - GOVERNOR LOW OIL BUTTON,BELL AND LIGHT OPERATION CHECKS OK.'.
**15.02.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED & RUN UP OK.'.
**15.02.1993** Service defect: 'UN - FUEL SYSTEM INJECTORS - R2 INJECTOR REPLACED, A/C LEAKING.'.
**15.02.1993** Service defect: 'UN - GENERAL - AIR FRIDGE REPLACED EX 705.'.
**15.02.1993** Service defect: 'UN - VIGILANCE - VIG CONTROL REPAIRED & TESTED OK, CAPICTOR REPLACED.'.
**19.02.1993** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - BRUSHES REPAIRED ON EDDY CURRENT CLUTCH.'.
**19.02.1993** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.
**19.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS CLEARED.'.
**19.02.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN SETTINGS CHECKED OK. FAN CONTROL PUT BACK ON AUTO.'.
**23.02.1993** Service defect: 'UN - EXHAUST - ALL EXHAUST BOLTS TIGHTENED.'.
**23.02.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB TO ENGINE ROOM DOOR RESEALED.'.
**10.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - H.P. DISCHARGE VALVE REPAIRED.'.
**10.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - STEPS STRAIGHTENED.'.
**10.03.1993** Service defect: 'UN - VIGILANCE - V/CONTROL REPAIRED & CHECKED OK.'.
**18.03.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - R3 HEAD REPLACED,A/C SPLIT VALVE.'.
**27.03.1993** Service defect: 'A - ELECTRICAL MISC. TRANSITION - NO 3 TRANSITION CAN REPLACED.'.
**27.03.1993** Service defect: 'A - EXHAUST - EXHAUST LEAK LHS TOP TURBO CONNECTION TIGHTENED.'.
**27.03.1993** Service defect: 'A - FUEL SYSTEM - R1 BANGO REPAIRED,A/C LEAKING FUEL.'.
**27.03.1993** Service defect: 'A - FUEL SYSTEM INJECTORS - L1 & L6 INJECTORS CHANGED, A/C NOT FIRING PROPERLY.'.
**27.03.1993** Service defect: 'A - FUEL SYSTEM PUMP - L5 PUMP CHANGED,A/C STICKING.'.
**27.03.1993** Service defect: 'A - OIL FILTERS - LUBE OIL FILTERS CHANGED, A/C LOW OIL PRESSURE.'.
**02.04.1993** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - WSRI RELAY REPLACED,A/C WHEELSLIP. SENT ON TRIAL RUN, LOCO OK.'.
**20.04.1993** Service defect: 'UN - WHEELSLIP - TRACTION MOTOR NUMBER FIVE5 REPLACED A/C INCONSISTENT FIELD RESISTANCE READINGS 280899IN,280926OUT.'.
**21.04.1993** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - NO 5 WICKS CHECKED OKAY.'.
**21.04.1993** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - 13C WIRE SOLDERED BACK ONTO DIODE.'.
**11.05.1993** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED A/C ONLY ONE VOLT ACROSS BATTERIES.'.
**11.05.1993** Service defect: 'UN - LOCO THROWING OIL TO RETURN TO WORKSHOP FOR REPAIR'.
**11.05.1993** Service defect: 'UN - 12/5/93.'.
**07.06.1993** Service defect: 'SW - ENGINE GOVERNOR - GOV REPLACED.'.
**07.06.1993** Service defect: 'SW - ENGINE PISTON - COMPLETE PISTON & PISTON RING CHANGE CARRIED OUT,A/C WORN OUT OIL RINGS.'.
**07.06.1993** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO WATER LEAK REPAIRED. TURBO AIR MOD COMPLETED. LOCO LOAD TESTED OK.'.
**07.06.1993** Service defect: 'SW - FUEL SYSTEM INJECTORS - ALL INJECTORS REPLACED.'.
**07.06.1993** Service defect: 'SW - GENERAL ACCIDENT - DERAILMENT REPAIRS COMPLETED.'.
**23.06.1993** Service defect: 'C - BOGIE - L2 & 3 HORNSTAY BOLTS TIGHTENED. NO 4 BOTTOM GEARCASE BOLT TIGHTENED & WASHER REPLACED. 'A'END LEFT & 'B'END BOTH SHOCK'.

**23.06.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - ALL WICKS REPLACED.'.
**07.09.1993** Service defect: 'A - BATTERY MAINTENANCE - ALL BATTERIES CHANGED.'.
**07.09.1993** Service defect: 'A - EXHAUST - LHS SHORT EXHAUST CONNECTOR REPLACED, A/C SPLIT.'.
**07.09.1993** Service defect: 'A - GENERAL - TOILET VALVE REPAIRED & PIPE REPLACED.'.
**07.09.1993** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - 'A'END INDEPENDANT BRAKE VALVE REPLACED.'.
**07.09.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER REPLACED.'.
**07.09.1993** Service defect: 'A - VIGILANCE - VIGILANCE CONTROL REPAIRED.'.
**29.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CLEARED NO 19 D/CHECK VALVE AND DRILLED PRESSURE RELIEF HOLEIN PIPE BETWEEN D/CHECK VALVE AND PILOT AIR VALVE. TESTED OK'.
**29.09.1993** Service defect: 'UN - VIGILANCE - VIGILANCE PROBLEM RECTIFIED.'.
**28.10.1993** Service defect: 'UN - ENGINE WATER LEAK - HOSE UNDER TURBO REPLACED, A/C LEAKING.'.
**26.11.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1 & L3 WICKS REPLACED, A/C DIRTY.'.
**26.11.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - L3 SANDER HOSE REPLACED.'.
**26.11.1993** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - 'A'END LOW NOTE HORN REPLACED.'.
**26.11.1993** Service defect: 'B - PISTON PACKING IN REV + MOTOR BRAKING SWITCHES TO'.
**26.11.1993** Service defect: 'B - REPLACE. P2 + S21 PISTON PACKING TO REPLACE.26/11.'.
**16.12.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR AND GOVERNOR BASE EX 607N FITTED A/C ORIGINAL ONE HAD STRIPPED SPLINE. RACK SETTING COMPLETED AT QUICK FIX.'.
**28.12.1993** Service defect: 'UN - DYNAMIC BRAKE - ONE GRID REPLACED A/C BROKEN INSULATORS AND TOUCHING TO THE FRAME.LOCO TRIAL RUN AND CHECKED OKAY.'.
**22.01.1994** Service defect: 'UN - ENGINE WATER LEAK - HOSE FROM TURBO TO WATER PIPE REPLACED A/C LEAKING. HOSE REPLACED. HOSE EX 705.'.
**18.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR INTAKE FILTERS REPAIRED, A/C LOOSE & RATTLING'.
**02.03.1994** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - PISTON PACKING IN REV AND MOTOR BRAKING SWITCHES REPLACED. P2 AND S21 PISTON PACKING REPLACED.'.
**02.03.1994** Service defect: 'A - ENGINE WATER LEAK - WATER LEAK ON SIDE OF TURBO REPAIRED.'.
**02.03.1994** Service defect: 'A - FUEL SYSTEM PUMP - R2 AND R5 FUEL PUMPS REPAIRED, A/C LEAKS.'.
**02.03.1994** Service defect: 'A - LUBRICATING SYSTEM - LUBE OIL FILTERS CHANGED.'.
**02.03.1994** Service defect: 'A - WEAR PLATES TO MONITOR, ALL AXLES.2/3.'.
**22.03.1994** Service defect: 'TS - TRACTION MOTOR - NO.6 T/M LUG REPLACED, A/C BLEW OFF AND CAUGHT FIRE.'.
**14.04.1994** Service defect: 'UN - OVERSPEED OPERATION - OVERSPEED REPAIRED, CHECKED OK.'.
**29.04.1994** Service defect: 'UN - GENERAL - SERVICE WATER TANK REPAIRED.'.
**29.04.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - PRESS FAN HOUSING REFITTED, FAN REPAIRED.'.
**23.05.1994** Service defect: 'E - 'E' SERVICE TO COMPLETE, A/C LOCO REQUIRED FOR'.
**23.05.1994** Service defect: 'E - TRAFFIC.23/5.'.
**26.05.1994** Service defect: 'TS - GENERAL - FRIDGE REPAIRED.'.
**26.05.1994** Service defect: 'TS - VIGILANCE - VIGILANCE REPAIRED.'.
**26.05.1994** Service defect: 'TS - L3 EXHAUST GASKET TO REPLACE AND COMPRESSOR UNLOAD'.
**26.05.1994** Service defect: 'TS - ER MAGNET VALVE TO REPLACE.26/5.'.
**15.06.1994** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS/SIDE FRONT WINDOW REPLACED.'.
**20.06.1994** Service defect: 'UN - BOGIE - NO 6 GEARCASE REPAIRED, A/C DERAILMENT.'.
**99.99.9999** Service defect: 'UN - SHUTTING DOWN.'.

### 705

Details: locomotive '705 C' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $293800
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-4
**Date Built:** 28.03.1972
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**BSG Code:** LBAQ

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 27.03.1997 | | |
| Last Lift: | 23.03.1989 | | |
| SW Service Mileage: | 1119977 KM | SW Service Date: | 20.02.1996 |
| A Service Mileage: | 1185895 KM | A Service Date: | 27.03.1997 |
| B Service Mileage: | 1147794 KM | B Service Date: | 20.06.1996 |
| C Service Mileage: | 1176022 KM | C Service Date: | 04.01.1997 |
| D Service Mileage: | 1075465 KM | D Service Date: | 23.06.1995 |
| E Service Mileage: | 635346 KM | A Service Date: | 03.05.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 23.03.1989 |
| WT Service Mileage: | 606008 KM | WT Service Date: | 26.03.1993 |
| US Service Mileage: | 1183042 KM | A Service Date: | 04.03.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**13.08.1987** Alteration complete 'CONVERT 6 700 CLASS D.E. LOCOMOTIVES FROM 1435 GAUGE TO 1600 GAUGE. (RS4212)'.

**04.07.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LACK OF POWER.FIELD SHUNT RESISTORS & CONTACTORS CHECKED OK.DIRTY CONTACTS ON CR1,CLEANED.TRANS RELAY CHECKED'.
**24.07.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - AUX CONTACTS ON S31 REPLACED A/C WELDED.'.
**01.08.1989** Service defect: 'SW - MAIN GENERATOR - MAIN GEN CLEANED A/C OIL.'.
**01.08.1989** Service defect: 'SW - TRACTION MOTOR - NO 4-5 TM'S CLEANED A/C OIL.'.
**04.09.1989** Service defect: 'UN - GENERAL - ENGINE ROOM DOOR SEALS REPLACED.'.
**20.10.1989** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL TRANSFER PUMP CHANGED A/C BURNT OUT.'.
**20.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED A/C CLOCK NOT WORKING.'.
**27.10.1989** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C OIL.'.
**27.10.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO4 & 5 TM'S CLEANED A/C OIL.'.
**27.10.1989** Service defect: 'TS - NO4 & 5 TM'S & M/GEN TO WASH OUT A/C OIL.OIL LEAK'.
**27.10.1989** Service defect: 'TS - TO LOCATE.'.
**10.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS NEAR AIR DUCT ADJACENT TO COMPRESSOR REPAIRED.'.
**26.11.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - RT3 CHANGED.'.
**10.12.1989** Service defect: 'UN - DYNAMIC BRAKE - FAULTY BUSBAR REPAIRED IN B/TANK A/C LOW BLOWER MOTOR VOLTAGE (30V).'.
**13.12.1989** Service defect: 'SW - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'A'END RECEPTACLE REPAIRED.'.
**20.12.1989** Service defect: 'UN - AUXILLARY MACHINES - CRANKCASE EXHAUSTER LIGHT BOOKED FOR GOING ON & OFF.BRUSHES BEDDED IN,NO FAULT FOUND.'.
**09.01.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - L3 HP FUEL LINE REPLACED.'.
**18.01.1990** Service defect: 'UN - BOGIE - BRAKE RODS REPLACED.'.
**24.01.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - LUG ON P21 CONTACTOR REPAIRED A/C BROKEN.'.
**24.01.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - RT2 DIODE REPLACED A/C REVS WRONG.'.
**09.02.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN WASHED.'.
**09.02.1990** Service defect: 'UN - MAIN GENERATOR BRUSHES - NEW BRUSHES FITTED TO M/GEN.'.
**13.02.1990** Service defect: 'WT - BRAKE ADJUST TO MILE END'.
**22.03.1990** Service defect: 'UN - GENERAL - TO IW FOR REPAIRS.'.
**11.04.1990** Service defect: 'SW - BOGIE - DEFECTIVE R6 BRAKE CYLINDER REMOVED, NEW CYLINDER FITTED.'.
**11.04.1990** Service defect: 'SW - MAIN GENERATOR - MAIN GENERATOR CHANGED - OUTPUT CHECKED ON LOAD TANK.'.
**11.04.1990** Service defect: 'SW - OTHER BODY REPAIRS - WINDSCREEN WASHERS REPAIRED'.
**11.04.1990** Service defect: 'SW - 'A' END JUMP SEAT BASE MISSING.'.
**18.04.1990** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 2 BRAKE GRIDS REPLACED.DYN/BRAKE SET UP CHECKED,OK.'.
**06.05.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**25.05.1990** Service defect: 'UN - TRACTION MOTOR - NO6 TM CHANGED A/C BANDING COMING OFF.(IN 290668 OUT 261278)'.
**01.06.1990** Service defect: 'UN - CONTACTOR EP VALVES - REGENERATIVE INTERLOCK NOT WORKING.WIRE ON MAGNET VALVE REPLACED A/C OFF,MAGNET VALVE REPLACED.'.
**19.06.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - L1,R4 INJECTORS REPLACED.'.
**19.06.1990** Service defect: 'UN - FUEL SYSTEM LINES - L1,R4 HIGH PRESSURE FUEL LINES REPLACED.'.
**21.06.1990** Service defect: 'UN - BOGIE - 2 SHOCKERS REPLACED ON'A'BOGIE.'.
**21.07.1990** Service defect: 'UN - BOGIE - 'A'END RHS SHOCKER REPLACED.'.
**27.07.1990** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L1,L2 WICKS CHANGED.'.
**09.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR FLATS.L2 WHEEL TO MONITOR.'.
**14.08.1990** Service defect: 'UN - VIGILANCE - 2 MAGNET VALVES REPLACED ON VIGILANCE A/C UNABLE TO CANCEL.'.
**17.08.1990** Service defect: 'UN - VIGILANCE - CAPACITOR FOR K1 CHANGED A/C VIGILANCE NOT CANCELLING.'.
**21.08.1990** Service defect: 'UN - FUEL SYSTEM LINES - R4 FUEL LINE REPAIRED.'.
**28.08.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - EARTH ON 'B'END LOAD METER GAUGE LIGHT REPAIRED.'.
**28.08.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN WASHED A/C OIL & CARBON BUILD UP.'.
**21.09.1990** Service defect: 'SW - BOGIE - (3) 125-313 SHOCK ABSORBERS REPLACED.'.
**21.09.1990** Service defect: 'SW - MAIN GENERATOR - G.E. GT586 MAIN GENERATOR REMOVED & REPLACED WITH AEI TG5301MAIN GENERATOR.'.
**25.09.1990** Service defect: 'UN - TRACTION MOTOR - NO4 TM RECONNECTED CORRECTLY.'.
**21.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**01.11.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - R6 SAND PIPE REPAIRED.'.
**19.11.1990** Service defect: 'UN - BOGIE - R1 SHOCKER CHANGED.'.
**19.11.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO6 WHEELSET CHANGED A/C CONDEMNED.'.
**20.11.1990** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - FUEL TAG CABLE REPLACED.'.
**20.11.1990** Service defect: 'SW - WHEELSLIP - BOOKED FOR CONTINUOUS WHEELSLIP.4 F/S CONTACTS & P21 AUX

CONTACTS REPLACED.'.
**20.11.1990** Service defect: 'SW - FUEL TAG WIRING TO REPLACE.30/10*'.
**27.11.1990** Service defect: 'UN - GENERAL - BOOKED FOR FUMES IN'A'CAB.DOOR SEALS CHECKED OK .'.
**29.11.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED WEAK,TO BE SET UP.'.
**29.11.1990** Service defect: 'UN - D/BRAKE TO SET UP.'.
**01.02.1991** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - TO WHEEL LATHE 1/2'.
**08.03.1991** Service defect: 'UN - GENERAL - ENGINE ROOM FLOORS AND ENGINE CLEANED A/C OILY.'.
**08.03.1991** Service defect: 'UN - NO FAULT FOUND - RADIATOR LEAK - RADIATORS INSPECTED AND CHECKED OK.'.
**19.03.1991** Service defect: 'UN - FUEL SYSTEM PUMP - ELECTRIC FUEL PUMP REPLACED.'.
**02.04.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO1 AXLE REPLACED.A/C L1 BEARING SEAL MISSING.'.
**02.04.1991** Service defect: 'UN - GENERAL - OBS SIDE SEAT AIR RISE PIPE REPLACED.'.
**02.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - 'A'END RHS SLIDING WINDOW,BOTTOM BRACKET REPAIRED.'.
**11.04.1991** Service defect: 'UN - WHEELSLIP - WHEELSLIP-CONTACTOR REPLACED.'.
**03.05.1991** Service defect: 'TS - FUEL SYSTEM - LHS NO2 HIGH PRESSURE FUEL PIPE REPLACED,A/C FUEL LEAK.'.
**07.05.1991** Service defect: 'UN - OTHER BODY REPAIRS - D/SIDE WINDOW REPLACED,'A'END DRIVERS STEP WELDED.'.
**03.06.1991** Service defect: 'UN - BOGIE - DRAFT PACKAGE REPLACED 'B'END,A/C WORN OUT.'.
**15.07.1991** Service defect: 'C - ENGINE - GOVERNOR DRIVE & GOVERNOR REPLACED, A/C WOULD NOT START.'.
**01.08.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED,A/C OIL & WATER MIXING + LEAK FROM SIDE OF TURBO.'.
**01.08.1991** Service defect: 'UN - GENERAL - ALL CAB REPAIRS COMPLETED.'.
**01.08.1991** Service defect: 'UN - SIDE'.
**05.08.1991** Service defect: 'UN - LUBRICATING SYSTEM - CHECKED FOR OIL LEAK, NONE FOUND.'.
**12.08.1991** Service defect: 'UN - 'A'END PACKAGE FOR REPAIRS.12/8.'.
**13.08.1991** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - TRANSITION CAN REPLACED, A/C ERRATIC TRANSITION.'.
**03.09.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED,OIL PIPE NEAR OIL STRAINER PATCHED AND ALL OIL DRAIN PIPE RUBBERS REPLACED.'.
**30.09.1991** Service defect: 'UN - ENGINE - ENGINE VIBRATIONS.TRIAL RUN PROVED O/K.'.
**04.10.1991** Service defect: 'TS - BOGIE - BOGIES RECONNECTED. DIRECTION TESTED O/K.'.
**29.10.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - WICKS CHANGED,L1,R2.L4,R4 L5,R5.'.
**29.10.1991** Service defect: 'A - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH FOUND,WSR1 REPLACED.'.
**29.10.1991** Service defect: 'A - C/CASE EXHAUSTER TO REPLACE WHEN PART AVAILABLE.'.
**08.11.1991** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 3 BRAKE GRIDS REPLACED,A/C GR'S.'.
**18.11.1991** Service defect: 'UN - EXHAUST - ALL EXHAUSTS JOINTS TIGHTENED,A/C FUMES IN CAB.'.
**18.11.1991** Service defect: 'UN - GENERAL - 'A'END END ROOM DOOR SEALS REPLACED,A/C FUMES IN CAB.'.
**05.12.1991** Service defect: 'TS - BOGIE - BOGIE CENTRE BEARINGS CHANGED, ALL SHOCKERS & SNUBBERS CHANGED,A/C ROUGH RIDING.'.
**05.12.1991** Service defect: 'TS - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH CHANGED,A/C OPEN CIRCUIT.'.
**16.12.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 5 T/MOTOR BOTTOM SIDE BRUSH HOLDER REPLACED,A/C BROKEN SPRING. 1 GRID REPLACED,A/C COLLAPSED.DYN.BRAKE TANK CLEARED'.
**23.12.1991** Service defect: 'TS - WHEELSLIP - TDR REPLACED.A/C WHEEL SLIP FAULT.'.
**25.01.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED, TURBO MOD COMPLETED.'.
**25.01.1992** Service defect: 'UN - GENERAL - 'A'END DOOR SEALS REPAIRED.'.
**03.03.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - R2 R2 SPRINGS REPLACED.'.
**03.03.1992** Service defect: 'UN - EXHAUST - EXHAUST BOLTS REPLACED AND JOINTS TIGHTENED.'.
**03.03.1992** Service defect: 'UN - GENERAL - 'A'END CAB E/ROOM DOOR SEALS CHECKED OK.'.
**10.03.1992** Service defect: 'B - ENGINE CRANKSHAFT - CRANKCASE EXHAUSTER REPLACED OK.'.
**10.03.1992** Service defect: 'B - MAIN GENERATOR - MESH ON MAIN GENERATOR VENT IN E/ROOM REPLACED OK.'.
**10.03.1992** Service defect: 'B - OTHER BODY REPAIRS - DRIVERS SIDE DOOR REPAIRED OK.'.
**10.03.1992** Service defect: 'B - VIGILANCE - VIGILANCE CONTROL REPAIRED OK.'.
**10.03.1992** Service defect: 'B - NO4 T/MOTOR NOSE SUSPENTION WEAR PLATE MISSING.'.
**10.03.1992** Service defect: 'B - (UPPER)'.
**17.03.1992** Service defect: 'TS - GENERAL SHUTDOWN - BRUSHES ON FUEL PUMP RENEWED.A/C EXTREMELY SHORT.CAUSING LOCO TO SHUTDOWN.'.
**13.04.1992** Service defect: 'UN - BOGIE - BRAKE GEAR & HORNSTAYS REPLACED.'.
**13.04.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED.W/SET LUBED,A/C SKIDDED WHEELS.'.
**13.04.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER REPLACED EX 702.'.
**13.04.1992** Service defect: 'UN - TRACTION MOTOR - NO 1 T/MOTOR RECONNECTED DIRECTION TESTED OK.'.
**21.04.1992** Service defect: 'TS - MAIN GENERATOR - MAIN GENERATOR WASH OUT & COMM CLEAN UP COMPLETED.'.
**01.05.1992** Service defect: 'UN - GENERAL - GAPS IN ENGINE ROOM DOOR SEALS FILLED.OK.'.
**12.05.1992** Service defect: 'TS - GENERAL LOSS OF POWER - CONTACT CLEANED ON BKR AUXILARY,A/C LOSS OF

POWER.'.

**13.05.1992** Service defect: 'UN - GENERAL LOSS OF POWER - ALL T/M'S CHECKED & GEN BKT AUXILLARIES CLEANED.AMMETER 'A' END CHANGED,A/C INTERMITTENT LOSS OF POWER.LOCO TRIAL RUN OK'.

**13.05.1992** Service defect: 'UN - MAIN GENERATOR FLASHOVER - M/GEN FLASHED ON TOP BRUSH HOLDERS ON DRIVERS SIDE,CHECKED OK.'.

**21.05.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - RESISTOR FOUND OPEN CIRCUIT CR2. CR2 RELAY REPAIRED & TESTEDOK.'.

**28.06.1992** Service defect: 'UN - AUXILLARY MACHINES - OUTSIDE BRUSH NON EXISTANT.BOTH BRUSHES REPLACED.-COMM.STONEUSED.'.

**02.09.1992** Service defect: 'C - AIR CONDITIONING - INDICATOR ON DRYER IN AIR COND. INDICATES WET.'.

**02.09.1992** Service defect: 'C - AUXILLARY MACHINES - FUEL PUMP MOTOR CHANGED A/C 1 BRUSH WEARING FASTER THAN THE OTHER.'.

**02.09.1992** Service defect: 'C - BOGIE - L4, L5, R5, R6, NOSE SUSPENSION WEAR PLATES WELDED. NO.2, NO.5, GEAR CASE BOLTS REPLACED AND TIGHTENED.'.

**02.09.1992** Service defect: 'C - BOGIE MAINTENANCE - SPRINGS - L.3 SPRING REPLACED A/C GONE SOFT.'.

**02.09.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L2 WICK REPLACED AND ALL OILS REPLACED.'.

**02.09.1992** Service defect: 'C - ENGINE WATER LEAK - VICTAULIC ON RIGHT HAND WATER RAIL CHANGED A/C LEAKING. VICTAULIC RUBBER FROM RADIATOR TO OIL COOLER CHANGED.'.

**02.09.1992** Service defect: 'C - GENERAL - 'B' END OBS. SEAT REPLACED.'.

**02.09.1992** Service defect: 'C - MAIN GENERATOR - MAIN GEN. WASH OUT A/C OIL AND GENERAL BUILD UP OF CARBON.'.

**02.09.1992** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - WEAR PLATE REPLACED ON 'B' END COUPLER.'.

**02.09.1992** Service defect: 'C - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED A/C BRAKE STYLUS BROKEN - NOT RECORDING.'.

**02.09.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - 5 BRUSHES CHANGED A/C REACHED CONDEMNED LIMIT.'.

**04.09.1992** Service defect: 'UN - GENERAL - INSPECTION COVER MADE FOR FAN SHAFT.'.

**04.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A' END AUTO BRAKE VALVE REPLACED.'.

**20.11.1992** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - OIL CHANGED ON NO'S R1,R5 & L5 SUSPENSION BEARINGS , A/C DIRTY. WICKS CHECKED OK.'.

**20.11.1992** Service defect: 'A - MAIN GENERATOR - MAIN GEN WASHED OUT & BRUSHES REPLACED AS REQ'D.'.

**20.11.1992** Service defect: 'A - DRAIN COCK ON OIL STRAINER TO REPLACE WHEN PARTS'.

**20.11.1992** Service defect: 'A - AVAILABLE.20/11.'.

**26.01.1993** Service defect: 'UN - COOLING SYSTEM OVERHEATING - THERMOSTATS REMOVED AND RESET- WERE U/S.'.

**26.01.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS WASHED.'.

**26.01.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HOT ENGINE ALARM REPLACED A/C U/S.'.

**26.01.1993** Service defect: 'UN - MAIN GENERATOR - OIL AND GREASE ON AND AROUND MAIN GENERATOR CLEANED UP.'.

**08.02.1993** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATORS WASHED,A/C BADLY CLOGGED, HOT ENGINES.'.

**08.02.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - FAN SPEEDS CHECKED OK.'.

**18.02.1993** Service defect: 'B - BOGIE - L1 SPRING REPLACED, A/C BROKEN. WELDED NOSE SUSPENSION WEAR PLATES ON AXLES 5 & 6. WELDED CRACKED AXLE BOXES & LINERS.'.

**18.02.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - HEATERS CHECKED, WORKING OK.'.

**18.02.1993** Service defect: 'B - RADIATOR/PRESSURISING FAN - RAD FAN THERMOSTAT COVER REPLACED.'.

**18.02.1993** Service defect: 'B - TRACTION MOTOR SUSPENSION BEARING - L3 BEARING REPLACED, A/C LIFTING WHITE METAL. JOURNAL SURFACES OK.'.

**26.02.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAPACITOR REPLACED A/C U/S.'.

**26.02.1993** Service defect: 'UN - VIGILANCE - PILOT AIR VALVES, DOUBLE CHECK VALVES REMOVED AND O/HAULED. VIGILANCE TESTED OK.'.

**05.03.1993** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED,FLANGES REWORKED,GASKETS FITTED,VICTAULICRUBBER RENEWED.'.

**10.03.1993** Service defect: 'SW - ENGINE - FAST COUPLING GREASED.'.

**10.03.1993** Service defect: 'SW - LUBRICATING SYSTEM - MICHIANA FILTER TANK GASKET REPLACED, A/C LEAKING.'.

**15.03.1993** Service defect: 'UN - BOGIE - NO 5 GEAR CASE WELDED, A/C SPLIT.'.

**15.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER REPLACED, A/C CRACKED.'.

**24.03.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 6 WHEEL SET REPLACED, A/C FLATS.'.

**24.03.1993** Service defect: 'UN - ENGINE - FAST COUPLING COVER REPLACED.'.

**24.03.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO MOD - 80LB VALVE REPLACED (EX NEW KIT) & TESTED OK.'.

**04.05.1993** Service defect: 'A - MAIN GENERATOR - MAIN GENERATOR VEED OUT & UNDERCUT.CLEANED UP & TESTED OK.'.

**14.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END PACKAGE & COUPLER REPLACED.'.

**07.06.1993** Service defect: 'UN - ENGINE - FAST COUPLING WASHED. LOCO TO TRAFFIC.'.

**11.06.1993** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT WIRING REPAIRED.'.

**08.07.1993** Service defect: 'UN - ENGINE - FAST COUPLING GROVE MACHINED IN FAST COUPLING,BOTH HALVES COMPLETED. PLACED BACK UNTO LOCO. COMPRESSOR INSTALLED,'.

**27.07.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END BRAKE PIPE INLET VALVE ADJUSTED TO 70PSI. BRAKE TEST 'A'END OK.'.
**27.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FAST COUPLING REPLACED, A/C SEIZED.'.
**27.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE & INDEPENDENT BRAKE VALVE CHANGED.'.
**02.08.1993** Service defect: 'UN - FUEL SYSTEM PUMP - L4 FUEL PUMP BRACKET CHANGED.'.
**02.08.1993** Service defect: 'UN - TRACTION MOTOR - T/MOTOR BLOWER BEARINGS GREASED.'.
**03.09.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - GEAR REPLACED ON NO 5 WHEELSET, A/C BADLY WORN.'.
**03.09.1993** Service defect: 'TS - OTHER BODY REPAIRS - 'B'END OBS/SIDE MIRROR REPLACED.'.
**07.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INSTALLED NEW J1 RELAY VALVE & CONTROL VALVE SERVICE PORTIONQUICK RELEASE PORTION CLEANED & REASSEMBLED, DOUBLE CHECK'.
**22.09.1993** Service defect: 'UN - FUEL SYSTEM INJECTORS - L3 INJECTOR STUD REMOVED & NEW STUD INSTALLED, A/C BROKEN. INJECTOR SEAT CLEANED & INJECTOR INSTALLED, TESTED OK.'.
**02.10.1993** Service defect: 'A - BOGIE - R5 WEAR PLATE REPLACED. OTHER WEAR PLATES RE-WELDED.'.
**02.10.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - 15 T/M BRUSHES CHANGED A/C CONDEMNING LIMITS.'.
**12.10.1993** Service defect: 'UN - MAIN GENERATOR - MIAN GENERATOR CLEANED A/C OILY.'.
**12.10.1993** Service defect: 'UN - NO FAULT FOUND - G/R'S IN DYN/BRAKE. NO FAULT FOUND AT MPC-SUSPECT MOISTURE.'.
**14.10.1993** Service defect: 'UN - DYNAMIC BRAKE - EARTH ON BRAKE GRIDS. GRIDS EX 703 FITTED. TO GO ON TRIAL RUN. CHECKED OK IN DEPOT.'.
**18.10.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE GRID REPLACED LHS, A/C EARTH FAULT. D/B REASSEMBLYCOMPLETED.'.
**18.10.1993** Service defect: 'UN - DYNAMIC BRAKE SETTING - DYNAMIC 'SET UP' OK.'.
**18.10.1993** Service defect: 'UN - ENGINE ROOM - ENGINE ROOM HATCH COVERS RESECURED, A/C NO RETAINING NUTS.'.
**28.10.1993** Service defect: 'UN - NO FAULT FOUND - GR'S - GRIDS,T/MOTORS & MAIN GEN CHECK OK, NO OBVIOUS FAULT FOUND. GRIDS MEGGERED OK, ARM OF M/GEN 10KOHMS. REST OF LOCO'.
**28.10.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - REAR BEARING OF PRESSURISING FAN GREASED, A/C NOISY.'.
**04.11.1993** Service defect: 'TS - ENGINE TEST (ELECT.) - AXLE GENERATOR CABLE REPAIRED.'.
**04.11.1993** Service defect: 'TS - GENERAL - PANEL ON DRIVERS SIDE DOOR RESECURED.'.
**04.11.1993** Service defect: 'TS - LUBRICATING SYSTEM - OIL LEAK REPAIRS CHECKED OK.'.
**11.02.1994** Service defect: 'UN - AIR CONDITIONING - REFITTED BELTS ON AIR CON COMPRESSOR.'.
**11.02.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WASHED - P-500KOHMS.'.
**11.02.1994** Service defect: 'UN - DYNAMIC BRAKE - DYN CHECKED OK, MAX GRID CURRENT 500A, VOLTAGE 240V.'.
**11.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED TERMINAL BOARD IN CUBICLE.'.
**11.02.1994** Service defect: 'UN - ENGINE - ENGINE CHANGE COMPLETED.'.
**11.02.1994** Service defect: 'UN - GENERAL - REPLACED OBS SEAT 'A'END.'.
**22.02.1994** Service defect: 'C - CONTACTOR MISCELLANEOUS - G/RELAY REPLACED, A/C U/S AUXILLARY CONTACTS.'.
**22.02.1994** Service defect: 'C - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**22.02.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - SPEEDO ARMATURE TIGHTENED.'.
**22.02.1994** Service defect: 'C - EXHAUST - EXHAUST LEAK R1 REPAIRED.'.
**22.02.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - NO 19 DOUBLE CHECK VALVE REPAIRED, A/C LEAKING.'.
**11.03.1994** Service defect: 'TS - ENGINE - PRESSURISING FAN SHAFT BEARINGS REPAIRED AND TESTED OK.'.
**16.03.1994** Service defect: 'TS - INSULATION WORN - GAUGE LIGHT WIRING RUBBED THRU IN DRIVERS DASH CAUSING EARTHWIRING REPAIRED.'.
**28.03.1994** Service defect: 'TS - COOLING SYSTEM RADIATOR - WASHOUT ON RADIATOR AREA COMPLETED.'.
**28.03.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - HOT ENGINE SWITCH & FAN OPERATION CHECKED OK, A/C BOOKED HOTENGINES.'.
**28.03.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO (EX 605 TURBO) AREA WASHED.'.
**08.04.1994** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - ENGINE ROOM LIGHTS, CORRECTED WIRING AND CHECKED OK.'.
**08.04.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED, NEW TURBO INTERCOOLER FITTED. LOAD TESTED OK.'.
**15.04.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 1 T/MOTOR REPLACED, A/C GR'S. T/M IN- 290683. T/M OUT- 290712. MOVEMENT TEST COMPLETED.'.
**02.05.1994** Service defect: 'UN - EXHAUST - EXHAUST STACK EXCHANGED WITH 702, A/C TOO SHORT AND DOES NOTEXTEND BEYOND ROOF.'.
**02.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - DOOR REPAIRS COMPLETED. OTHER LOG BOOK REPS COMPLETD.'.
**17.05.1994** Service defect: 'A - BOGIE - AXLE BOX AND WEAR PAD WELDED UP.'.
**17.05.1994** Service defect: 'A - COOLING SYSTEM RADIATOR - VICTAULICS TO RADIATORS REPLACED, A/C LEAKING.'.
**17.05.1994** Service defect: 'A - EXHAUST - R1 EXHAUST, R6 BANJO FITTING REPAIRED, A/C LEAKING.'.
**17.05.1994** Service defect: 'A - FUEL SYSTEM - R3 FUEL PUMP REPLACED, A/C SEIZED. H.P. FUEL LINE

REPLACED.'.

**17.05.1994** Service defect: 'A - LUBRICATING SYSTEM - OIL LEAK BETWEEN MICHI AND HEAT EXH - SEALS REPLACED.'.

**09.06.1994** Service defect: 'UN - MAIN GENERATOR - MAIN GEN COM CLEANED UP WITH STONE. V RING PAINTED AND SEGMENTS CLEANED OUT. ONE BRUSH HOLDER CELL REPLACED, A/C'.

**09.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L1 SANDER BRACKET AND HOSE REPLACED.'.

**09.06.1994** Service defect: 'UN - OVERSPEED OPERATION - PIN FITTED TO ENG OVERSPEED HANDLE.'.

**09.06.1994** Service defect: 'UN - TRACTION MOTOR - NO 4 AND N0 6 CLEANED UP ALL OTHERS OK. V RING ON NO 4 T/M PAINTED.'.

**14.06.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - DAMAGED BRUSH HOLDER CELLS REPLACED AND CHECKED OK. COMM CLEANED AND V-RING CLEANED. RISER BARS BRUSHED, V-RING'.

**21.06.1994** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - GR'S - TRIAL RUN, FOUND NO TRANSITION, WIRES BROKEN AT AXLE GENERATOR, REPAIRED.'.

**27.06.1994** Service defect: 'UN - BOGIE - NO'S 1 AND 3 AXLE BOXES GREASED, BOTH SIDES.'.

**27.06.1994** Service defect: 'UN - GENERAL - 'B'END LOAD METER REPLACED.'.

### 706

Details: locomotive '706 L' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $293800
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-4
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**Remarks:** EX 700
**BSG Code:** LBAQ

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 17.04.1997 | | |
| Last Lift: | 08.02.1988 | | |
| SW Service Mileage: | 575262 KM | SW Service Date: | 10.07.1996 |
| A Service Mileage: | 594262 KM | A Service Date: | 11.11.1996 |
| B Service Mileage: | 607671 KM | B Service Date: | 14.02.1997 |
| C Service Mileage: | 577655 KM | C Service Date: | 30.07.1996 |
| D Service Mileage: | 560820 KM | D Service Date: | 24.01.1996 |
| E Service Mileage: | 416648 KM | A Service Date: | 30.03.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 08.02.1988 |
| WT Service Mileage: | 437055 KM | WT Service Date: | 06.07.1993 |
| US Service Mileage: | 612801 KM | A Service Date: | 17.04.1997 |

**24.07.1986** Alteration complete 'RENUMBER INDIVIDUAL LOCOMOTIVES AND RAIL CARS AS LISTED. 500 TO 534, 600 TO 607, 700 TO 706, 800 TO 810, 830 TO 875, 930 TO 967 250 TO 261, 280 TO 283 & 100 TO 107 (RS4140)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**13.08.1987** Alteration complete 'CONVERT 6 700 CLASS D.E. LOCOMOTIVES FROM 1435 GAUGE TO 1600 GAUGE. (RS4212)'.

**04.07.1989** Service defect: 'TS - LUBRICATING SYSTEM - OIL PIPE RESET & SECURED.DRESSER JOINT RENEWED A/C OIL LEAK.'.

**04.07.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY.BALLAST LAMP REPLACED,LOOSE CONNECTION ON BAL-LAST LAMP HOLDER,WATER IN SPEEDO HEAD & TERMINAL BOX.CLEANED'.

**11.07.1989** Service defect: 'UN - FUEL SYSTEM - FUEL RACKS ADJUSTED A/C HIGH BOOST PRESSURE.'.

**16.07.1989** Service defect: 'FA - FUEL SYSTEM LINES - R3 HIGH FUEL PRESSURE FUEL LINE REPLACED A/C BROKEN.'.

**21.07.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - MULTIPLE EARTH FAULTS REPAIRED.43-8C WIRE SHORTED.'B'END HEADLIGHT RESISTORS.WATER IN SPEEDO TERMINAL BOX & HEAD.'.

**28.07.1989** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR FLAMES FROM EXHAUST IN NOTCH 8.ALL CYLINDERS CHECKED OK.'.

**01.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - LHS NO 4 SAND PIPE REPLACED A/C MISSING.'.

**19.08.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2,L3,L4,R3 WICKS & OILS REPLACED A/C DIRTY OIL.'.

**19.09.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN GEAR BOX & COUPLING CHANGED.'.

**19.10.1989** Service defect: 'UN - AUXILLARY MACHINES - CRANKCASE EXHAUSTER REPLACED.'.

**10.11.1989** Service defect: 'UN - TRACTION MOTOR - NO5 TM CLEAT BRACKET REPLACED.'.

**07.12.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION CAN REPLACED A/C NO 65KPH TRANSITION.'.

**19.01.1990** Service defect: 'UN - ENGINE - BOOKED FOR VIBRATION,CHECKED OK.'.

**31.01.1990** Service defect: 'UN - VIGILANCE - 'B'END F/SIDE VIG BUTTON REPAIRED.'.

**08.02.1990** Service defect: 'UN - COOLING SYSTEM OVERHEATING - BOOKED FOR HOT ENGINE.CHECKED OK.'.

**08.02.1990** Service defect: 'UN - GENERAL - 'B'END DOOR LOCK REPAIRED.'.

**22.02.1990** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - 16D WIRE REPLACED ON ERR COIL.'.

**28.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO TRANSMITTER REBUILT A/C FAULTY PARTS.'.

**28.02.1990** Service defect: 'UN - BRAKE PRESS.LIGHTS NOT WORKING.'.

**05.03.1990** Service defect: 'UN - BOGIE - BRAKE SPREADERS REPAIRED.'.

**09.03.1990** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - NO1 LHS SAND PIPE REPAIRED.’.
**20.03.1990** Service defect: ‘UN - AUXILLARY MACHINES - AUX GEN CHANGED.’.
**20.03.1990** Service defect: ‘UN - EXHAUST - L1,L2,L3 EXHAUST JOINTS REPLACED.’.
**03.04.1990** Service defect: ‘UN - ENGINE - ENGINE CHECKED FOR VIBRATION.’.
**05.04.1990** Service defect: ‘UN - FUEL SYSTEM INJECTORS - R1 INJECTOR RESEATED A/C BROKEN STUD.R2 INJECTOR REPLACED.’.
**05.04.1990** Service defect: ‘UN - FUEL SYSTEM PUMP - PUMP TIMING CHECKED & ADJUSTED.’.
**30.04.1990** Service defect: ‘SW - ELECTRICAL MISCELLANEOUS - R2 (WHICH WAS ENERGISED AT ALL TIMES) - REPAIRED. PCS REPAIRED A/C FAULTY’.
**30.04.1990** Service defect: ‘SW - GENERAL - ENGINE ROOM & RADIATOR COMPARTMENT WASHED. ’B’ END DRIVER’S SIDE BLIND REPLACED.’.
**30.04.1990** Service defect: ‘SW - MECHANICAL EQUIPMENT - FAN DRIVE COUPLING REPLACED.’.
**30.04.1990** Service defect: ‘SW - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDPIPES HAVE BEEN CONVERTED TO THOSE WHICH THE ’BL’ LOCOMOTIVES ARE RUNNING.’.
**30.04.1990** Service defect: ‘SW - OIL LEAK TO FIND IN ENGINE ROOM.’.
**01.05.1990** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPAIRED.’.
**01.05.1990** Service defect: ‘A - PCS TO CHANGE RAD FAN SWITCH FAULTY’.
**10.05.1990** Service defect: ‘UN - TRIAL RUN MONDAY 14,05,1990’.
**25.05.1990** Service defect: ‘SW - GENERAL - ENGINE AIR FILTER TEMPORARILY REPAIRED TO COMPLETE A.S.A.P.’.
**25.05.1990** Service defect: ‘SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MOUNTING BOLTS TIGHTENED’.
**06.07.1990** Service defect: ‘SW - ENGINE - CHANGED A/C SUSPECT CRACKED. POWER ASSY.R4 REMOVED,INSPECTEDNEW PISTON RINGS FITTED & REASSEMBLED.’.
**06.07.1990** Service defect: ‘SW - ENGINE - LOAD TESTED. INJECTOR & PUMP CHANGED ON CYLINDER R4,CYLINDERHEAD CHANGED- FUEL PUMP BRACKET CHANGED- R4 CYLINDER LINER’.
**06.07.1990** Service defect: ‘SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED, UNIT EX 944 FITTED A/C DAMAGED INTERNALLY BY BROKEN VALVE SEAT INSERTS FROM PREVIOUS INCIDENT.’.
**06.07.1990** Service defect: ‘SW - GENERAL - TURBO AIR INTAKE FILTER HOUSINGS REPAIRED & WATER TANK SUP- PORTS REPAIRED & STRENGTHENED.’.
**06.07.1990** Service defect: ‘SW - MECHANICAL EQUIPMENT - HAND BRAKE REPAIRED. NEW PAWL SPRING FITTED, HANDLE REPAIRED’.
**06.07.1990** Service defect: ‘SW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CHECKED & FOUND TO BE O.K.’.
**06.07.1990** Service defect: ‘SW - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE VALVE REPAIRED & REFITTED.’.
**19.07.1990** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE SYSTEM CLEANED A/C RUST.‘A‘END BRAKE VALVE REPLACED.’.
**31.07.1990** Service defect: ‘SW - BOGIE - (4) 215-313 SHOCK ABSORBERS REPLACED.’.
**31.07.1990** Service defect: ‘SW - MECHANICAL EQUIPMENT COUPLER - ’B’ END PACKAGE TURNED 180 DEGREES.’.
**01.08.1990** Service defect: ‘UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C HIGH SILICONE.’.
**15.08.1990** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - NO3 WHEELSET CHANGED.’.
**15.08.1990** Service defect: ‘UN - TRACTION MOTOR - NO3 TM CHANGED A/C SUSPENSION BEARING.(IN 280911 OUT 280918)’.
**05.09.1990** Service defect: ‘UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.’.
**16.09.1990** Service defect: ‘TS - WHEELSLIP - BOOKED FOR WHEELSLIP.P32 AUX CONTACTS STUCK,REPLACED.P22 AUXCONTACTS WELDED,REPLACED.(41-41A).’.
**28.09.1990** Service defect: ‘TS - FUEL SYSTEM LINES - L3 HP FUEL LINE REPLACED A/C FRACTURED.’.
**04.10.1990** Service defect: ‘UN - MAIN GENERATOR FLASHOVER - MAIN GEN FLASHED,CHECKED BRUSHES CLEANED INSULATORS.’.
**21.10.1990** Service defect: ‘UN - GENERAL LOSS OF POWER - NO POWER OVER NOTCH 1,LOOSE WIRE ON MAGNET VALVE REPAIRED.’.
**30.10.1990** Service defect: ‘UN - BOGIE CHANGE’.
**01.11.1990** Service defect: ‘UN - BOGIE - BOGIES CHANGED.(IN 7&8 ).’.
**01.11.1990** Service defect: ‘UN - TRACTION MOTOR - ALL TM’S CHANGED.(IN 280927,7378720,290684,290712,7378640, 7362548).’.
**01.11.1990** Service defect: ‘UN - TO ISL.VIBRATION/BOGIE REPAIRS’.
**05.12.1990** Service defect: ‘SW - ENGINE - LOCO LOAD TESTED A/C BAD VIBRATIONS NO FAULT FOUND.’.
**05.12.1990** Service defect: ‘SW - FUEL SYSTEM - LOCO FUEL TANK REPAIRED A/C CRACKED.’.
**05.12.1990** Service defect: ‘SW - TRACTION MOTOR SUSPENSION BEARING - NO.1 & NO.4 SUSPENSION BEARINGS REPLACED A/C PICKING UP. 1 TRACTION MOTOR CHANGED A/C OUT OF ROUND BORES.’.
**10.12.1990** Service defect: ‘UN - BOGIE - BOGIES CONNECTED,SHOCK ABSORBERS & LATERAL SHOCK ABSORBERS CONNECTED.’.
**10.12.1990** Service defect: ‘UN - BOGIE MAINTENANCE - WICKS - R2 L2 R3 L3 WICKS CHANGED & OIL CHANGED A/C DIRTY WICKS.’.
**24.01.1991** Service defect: ‘UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAN CHANGED A/C GROUND RELAYS IN D.B.’.
**24.01.1991** Service defect: ‘UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYNAMIC BRAKE GRID INSULATORS CHANGED A/C EARTH’.
**04.04.1991** Service defect: ‘UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYN BRAKE GRIDS RECONNECTED,DYN BRAKE SET UP CHECKED OK,A/C LHS GRIDS BLOWN.’.
**22.04.1991** Service defect: ‘UN - ELECTRICAL MISC. TRANSITION - SENT INTO TRAFFIC - TRAIN NO 2744 - TRIAL RUN TO MT LOFTY. TRANSITION SET UP REQUIRED.’.

**02.05.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR GR'S,TM & M/G CHECKED OK IN DEPOT.'.
**02.05.1991** Service defect: 'UN - FUEL SYSTEM - FUEL RACKS ADJUSTED.'.
**02.05.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL INJECTORS REPLACED,A/C VIBRATIONS IN ENGINE.'.
**02.05.1991** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP REPLACED,A/C UNABLE TO CHECK TIMING.'.
**17.10.1991** Service defect: 'SW - TO INSTALL ENGINE AT MOTIVE POWER CENTRE.'.
**17.01.1992** Service defect: 'SW - ENGINE - ENGINE INSTALLED.'.
**17.01.1992** Service defect: 'SW - GENERAL - CAB MODS COMPLETED.CAB CLEANING & PAINTING COMPLETED.'.
**17.01.1992** Service defect: 'SW - MAIN GENERATOR - MAIN GEN INSTALLED.'.
**17.01.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END BRAKE GEAR REPLACED.'.
**17.01.1992** Service defect: 'SW - OTHER BODY REPAIRS - STEPS REPAIRED.'.
**21.01.1992** Service defect: 'TS - BOGIE MAINTENANCE - WICKS - WICK CHECK COMPLETED.'.
**21.01.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - FUEL PUMP REPLACED,A/C SHUTTING DOWN.'.
**24.01.1992** Service defect: 'UN - BOGIE - BOGIE CHANGE COMPLETED.'.
**07.02.1992** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT ON AIR CONDITIONER REPAIRED.'.
**07.02.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION SET UP COMPLETED.'.
**07.02.1992** Service defect: 'UN - MAIN GENERATOR - FIELD CONNECTIONS IN GENERATOR REVERSED,CHECKED OK.'.
**07.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END FLOW METER VALVE CHANGED.CONTROL VALVE SERVICE PORTION CHANGED.S1 RELAY VALVE CHANGED.'.
**07.02.1992** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP RELAYS REPAIRED.'.
**10.03.1992** Service defect: 'UN - AIR CONDITIONING - 'A'END AIR CONDITIONER CHECKED OK.'.
**10.03.1992** Service defect: 'UN - OTHER BODY REPAIRS - 'A'END ENGINE ROOM DOOR REPAIRED OK.'.
**12.03.1992** Service defect: 'UN - VIGILANCE - VIGILANCE WOULD NOT CANCEL.CAPACITORS REPLACED OK.'.
**26.03.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - BROKEN WIRE REPAIRED ON 'A' END CONTROL STAND.'.
**26.03.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GRS.ON START.-FOUND VIG. BUTTON 'B' END SHORTING.-REPAIRED.'.
**29.03.1992** Service defect: 'TS - INSULATION WORN - O.2 CABLES INSULATED WITH RED FIBRE.-NO RUBBER AVAILABLE.'.
**10.04.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 12 WICKS CHANGED.'.
**10.04.1992** Service defect: 'C - FUEL SYSTEM INJECTORS - 2 INJECTORS CHANGED,R1 & R4.R6 INJECTOR DELIVERY PIPE REPLACED,A/C LEAKING.'.
**01.06.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE POT ALLEN SCREW TIGHTENED & DYN/BRAKE CHECKED OK. A/C D/BRAKE NOT WORKING.'.
**03.06.1992** Service defect: 'SW - GENERAL - MODS COMPLETED.'.
**29.06.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FAULT LIGHT FITTINGS REPLACED 'B'END.'.
**29.06.1992** Service defect: 'UN - GENERAL - 'A'END FRIDGE REPAIRED AND FILTER CHANGED.FRIDGE STRAP SECURED.-A&B END FRIDGES CLEANED.DOOR CATCH ADJUSTED.'.
**29.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - NO.1 MOTOR SAND PIPE REPOSITIONED AND REPAIRED.'.
**09.07.1992** Service defect: 'A - AIR CONDITIONING - AIR-CON. CHECKED OK.REPORTED AS BLOWING HOT AIR.'.
**09.07.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - NEW SANDING HOSE BRACKETS FITTED TO L1&L6.'.
**09.07.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - SEAL REPLACED ON AUTO BRAKE VALVE A/C NOISEY.'.
**09.07.1992** Service defect: 'A - OTHER BODY REPAIRS - LATCH REPAIRED ON 'A'ENGINE ROOM DOOR. WINDSCREEN WASHERS REPAIRED.'.
**09.07.1992** Service defect: 'A - TRACTION MOTOR - NO.2 T/M COVERS MISSING.-REPLACED.-'.
**05.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.4 WHEELSET CHANGED A/C LEFT SUSPENSION BEARING BURNT OUT.'.
**08.08.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE POT REPLACED - EX 961.'.
**10.09.1992** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 3 DYNAMIC BRAKE GRIDS REPLACED A/C BURNT OUT A/C OPEN CIRCUIT FEED BACK WIRE. FEED BACK WIRE REPAIRED.'.
**24.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - L1 SANDER PIPE REPLACED.'.
**24.09.1992** Service defect: 'B - OTHER BODY REPAIRS - ENGINE ROOM WINDOW REPLACED.'.
**24.09.1992** Service defect: 'B - TRACTION MOTOR - T/M CAP BOLTS WIRED.'.
**10.10.1992** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO 6 WICK CARRIER BOLTS REPLACED.NEW WICK FITTED & OIL CHANGED. NO 3 WICK CARRIER BOLTS REPLACED.'.
**04.11.1992** Service defect: 'UN - BOGIE - 2 & 3 AXLE BOX SPRING PACKERS INSTALLED. NO 1 AXLE DROPPED & SPRINGS RELOCATED IN THE CORRECT POSITION.'.
**26.11.1992** Service defect: 'UN - GENERAL - 'A'END ENGINE ROOM DOOR SEALS REPLACED.'.
**09.12.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - B1 MAGNET VALVE REPLACED, A/C LOCO BRAKES APPLY WHEN USING THE AUTO BRAKES WHILST IN DYN/BRAKE.'.
**31.12.1992** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - 'B'END WHEELSLIP WIRING REPLACED, A/C O/C.'.
**31.12.1992** Service defect: 'A - TRACTION MOTOR - NO 3 T/M TOP COVER REPLACED, A/C MISSING.'.

**31.12.1992** Service defect: 'A - VIGILANCE - VIG TIMING ADJUSTED , VIG FLASHER UNIT REPLACED,A/C RESISTORU/S.'.
**08.03.1993** Service defect: 'TS - BOGIE MAINTENANCE - SPRINGS - AXLE BOX SPRINGS REPLACED ON ALL W/SETS.'.
**08.03.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR INSTALLED, CHECKED OK.'.
**08.03.1993** Service defect: 'TS - VIGILANCE - VIGILANCE CAPACITOR & BIG DCV GASKETS RENEWED. NEW SQUARE D FITTED.'.
**16.03.1993** Service defect: 'UN - DYNAMIC BRAKE - 2 DYN/BRAKE GRIDS REPLACED, A/C SLIGHTLY DAMAGED, GRIDS SAME AS THOSE ALREADY FITTED. D/B OPERATION CHECKED OK.'.
**17.03.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH CLEARED ON GRIDS,BUSBAR TOUCHING EARTH,A/C E ON P.'.
**17.03.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - MAIN GEN & T/M'S CHECKED OK,A/C GR'S.'.
**30.03.1993** Service defect: 'E - GENERAL - WINDOW WASHERS BOTH ENDS REPAIRED.'.
**30.03.1993** Service defect: 'E - MAIN GENERATOR - MAIN GEN INSULATORS CLEANED & BLOWN OUT.'.
**30.03.1993** Service defect: 'E - VIGILANCE - DOUBLE CHECK VALVE REPLACED ON VIG. TESTED OK.'.
**15.04.1993** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 2 GRIDS REMOVED,A/C BURNT OUT. LOCO SENT INTO TRAFFIC WITH D/BRAKE CUT OUT.'.
**15.04.1993** Service defect: 'TS - DYN/BRAKE CUT OUT,AWAITING BRAKE GRIDS.15/4.'.
**29.04.1993** Service defect: 'TS - ENGINE - ENGINE INSPECTION COMPLETED,NO DROPPED VALVE.'.
**11.05.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR CHANGED A/C OLD ONE KEPT LOOSING OIL. TESTED OK.'.
**07.06.1993** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAKS REPAIRED & TESTED OK.'.
**07.06.1993** Service defect: 'UN - EXHAUST - EXHAUST LEAKS FIXED,A/C CAB FUMES.'.
**19.06.1993** Service defect: 'A - BOGIE - R1 & R6 HORNSTAYS RESECURED.'.
**19.06.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 9 WICKS REPLACED,A/C OILS REPLACED.'.
**19.06.1993** Service defect: 'A - ENGINE WATER LEAK - HEADER TANK MARMON COUPLING REPLACED 'B'END,A/C LEAKING.'.
**19.06.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R3 SAND HOSE REPAIRED.'.
**22.06.1993** Service defect: 'SW - GENERAL - CAB DOOR SEALS REPLACED ON 'A'END ENGINE ROOM DOOR. BLIND REPAIRS COMPLETED. W/WASHER BOTTLE REPAIRED.'.
**02.07.1993** Service defect: 'UN - GENERAL - DOOR LATCH REPAIRED,A/C BROKEN.'.
**08.07.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO WATER HOSE REPLACED & PIPE SHORTENED,A/C LEAKING.'.
**08.07.1993** Service defect: 'UN - GENERAL - DOOR SEALS TO 'A'END CAB REPLACED,A/C EXHAUST FUMES.'.
**24.07.1993** Service defect: 'SW - DYNAMIC BRAKE - ALL DYNAMIC BRAKE GRIDS REPLACED. BLOWER MOTOR CHECKED OK.'.
**24.07.1993** Service defect: 'SW - OTHER BODY REPAIRS - DRIVERS SIDE WINDOW REPAIRED.'.
**12.08.1993** Service defect: 'UN - DYNAMIC BRAKE - GRIDS REMOVED & D/B DISCONNECTED.'.
**12.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR/BRAKE FAULT FOUND - NO AUX AIR AT J1 RELAY VIA SERVICE PORTION OF CONTROL VALVE 26D. CHOCKERS CLEANED IN 26D'.
**23.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B' END COUPLER AND PACKAGE REPLACED. FIVE INCH YOLK USED WITH QUARTER INCH STRIPS AS PACKING. NEW PACKAGE & COUPLER.'.
**27.08.1993** Service defect: 'B - AUXILLARY MACHINES - AUX GEN BRUSH HOLDER AT 3 O'CLOCK, PIN ARM BENT BACK INTO POSITION. CHECKED OK.'.
**07.10.1993** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHARGED A/C FLAT.'.
**07.10.1993** Service defect: 'TS - CONTACTOR WELDED - CRANKING CONTACTORS REPLACED A/C WELDED IN.'.
**07.10.1993** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE REPLACED A/C BLOWN. LOCO STARTED AND CHECKED OK.'.
**17.10.1993** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHARGED UP OK.'.
**17.10.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED EX 931, A/C FAILED ROTATING ASSEMBLY.'.
**23.10.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED, A/C BLOWN.'.
**03.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A' AUTO BRAKE VALVE LEAK - BRAKE VALVE CHANGED. BRAKE SYSTEM CHECKED OK.'.
**11.11.1993** Service defect: 'UN - EXHAUST - EXHAUST TIGHTENED (R1), NO MORE LEAKS.'.
**11.11.1993** Service defect: 'UN - GENERAL - ENGINE ROOM DOOR SEALS REPLACED.'.
**11.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - T/PIPE HOSE REPLACED 'A'END OBS/SIDE.'.
**18.11.1993** Service defect: 'A - AIR CONDITIONING - AIR CONDITIONER HOSES REPLACED. NEW COMPRESSORS.'.
**31.12.1993** Service defect: 'SW - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYNAMIC BRAKE GRIDS REPLACED WITH 600 CLASS GRIDS.'.
**31.12.1993** Service defect: 'SW - DYNAMIC BRAKE SETTING - DYNAMIC BRAKE SET UP WITH 57.5V FEEDBACK AS PER 600 CLASS SETTING.'.
**06.01.1994** Service defect: 'UN - ENGINE - VICTAULIC WATER RAIL JOINT REPLACED.'.
**06.01.1994** Service defect: 'UN - EXHAUST - ALL EXHAUST JOINTS TIGHTENED, A/C LEAKING.'.
**06.01.1994** Service defect: 'UN - GENERAL - ENGINE ROOM WASHED.'.
**07.01.1994** Service defect: 'TW - GENERAL - 'B'END CAB TO E/ROOM DOOR SEALS REPLACED A/C FUMES ENTERING CAB. 'B'END H/LIGHT SWITCH SCREW

REPLACED.'.

**07.01.1994** Service defect: 'TW - OTHER BODY REPAIRS - 'B'END OBSERVERS CAB DOOR LUBRICATED A/C NOT CLOSING, COMINGOPEN WHILST IN TRAFFIC.'.

**01.02.1994** Service defect: 'UN - EXHAUST - LONG EXHAUST STACK FITTED, EX 701.'.

**12.02.1994** Service defect: 'C - AUXILLARY MACHINES - AUX. GENERATOR 'VEED' OUT, A/C COPPER DRAG.'.

**12.02.1994** Service defect: 'C - ENGINE - L3 PISTON CHECKED FOR UNUSUAL FIRING NOISE. CHECKED OK UPON INSPECTION DURING SERVICE.'.

**12.02.1994** Service defect: 'C - MAIN GENERATOR - MAIN GEN. CLEANED, A/C VERY OILY.'.

**17.02.1994** Service defect: 'UN - BATTERY MAINTENANCE - 2 BATTERIES REPLACED, A/C OVERHEATING, BOILING.'.

**17.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CK1 AND CK2 CONTACT TIPS REPLACED, A/C CK2 STUCK IN CAUSING BATTERIES TO OVERHEAT ORIGINALLY. CHARGE = 71.2V IDLE. 72V'.

**17.02.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER REPLACED, EX 701, A/C BEARING FAILURE ON INPUTSIDE ALSO SEALS (INTERNAL) U/S.'.

**25.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE REPLACED (NEW KNUCKLE & COUPLER).'.

**15.03.1994** Service defect: 'UN - LUBRICATING SYSTEM LOW OIL PRESSURE - SHUTTING DOWN LOW OIL PRESSURE. MICHIANA FILTERS CHANGED. STRAINER CLEANED. SQUARE 'D'WARNING LIGHT ADJUSTED TO 60PSI'.

**06.04.1994** Service defect: 'UN - ENGINE PISTON - FUEL PUMPS INSPECTED FOR LEAKS - CHECKED OK.'.

**06.04.1994** Service defect: 'UN - FUEL SYSTEM - OIL CHANGED.'.

**06.04.1994** Service defect: 'UN - FUEL SYSTEM INJECTORS - FULL INJECTOR CHANGE COMPLETED.'.

**06.04.1994** Service defect: 'UN - FUEL SYSTEM LINES - L5 HIGH PRESSURE FUEL LINE REPLACED.'.

**07.05.1994** Service defect: 'A - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK.'.

**07.05.1994** Service defect: 'A - LUBRICATING SYSTEM - 'O'RING REPLACED, A/C CLOVER CLEAF LEAKING ON FAN GEAR DRIVE'.

**07.05.1994** Service defect: 'A - MAIN GENERATOR - MAIN GEN WASHED AND BRUSHES REPLACED, A/C OILY.'.

**07.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - 'B'END HORNS CLEANED, A/C DIRTY.'.

**07.05.1994** Service defect: 'A - TURBO EXHAUST INLET CASING TO MONITOR, A/C CRACKED'.

**30.05.1994** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED, A/C ELECTRICAL FAULT.'.

**07.06.1994** Service defect: 'UN - ENGINE ROOM - ENGINE ROOM WASHED, A/C OIL LEAKS. OIL LEAKS - DRESSER RUBBERS TIGHTENED.'.

**18.06.1994** Service defect: 'SW - ENGINE - 7 INJECTORS CHANGED, R1,3,6,L1,3,4 AND 6. TOP CLOVER LEAF RESEALED. CRANKCASE EXPLOSION COVERS, NEW GASKETS FITTED.'.

**18.06.1994** Service defect: 'SW - MAIN GENERATOR - MAIN GEN WASHED OUT AND BRUSHES FREED UP.'.

## 800

**25.06.1987** Reclassified from locomotive '800 K' to ' locomotive '810 S'.

## 801

Details: locomotive '801 T' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 12.8m
**Tare Weight:** 73.2tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $118780
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-5
**Date Built:** 09.06.1956
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 560kw
**Remarks:** AT P.D.S.M.
**BSG Code:** LBAR

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 07.10.1991 | | |
| Last Lift: | 07.02.1983 | | |
| SW Service Mileage: | 697699 KM | SW Service Date: | 15.09.1989 |
| B Service Mileage: | 713991 KM | B Service Date: | 22.02.1991 |
| C Service Mileage: | 712342 KM | C Service Date: | 19.10.1990 |
| D Service Mileage: | 697646 KM | D Service Date: | 11.09.1989 |
| US Service Mileage: | 721420 KM | A Service Date: | 07.10.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**11.09.1989** Service defect: 'D - COOLING SYSTEM RADIATOR - 5 WATER & 2 OIL RADIATORS REPLACED.10/9'.

**12.09.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPAIRED A/C ERRATIC CHARGING'.

**15.09.1989** Service defect: 'SW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED.'.

**22.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END TRAIN PIPE REPAIRED A/C LEAKING.'.

**26.09.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - BLOCKING DIODE FITTED.26/9.'.

**23.12.1989** Service defect: 'B - BRAKE 'B'SERVICE TO SCHEDULE'.

**11.01.1990** Service defect: 'TS - FUEL SYSTEM INJECTORS - OIL CHANGE A/C DILUTION.'.

**17.01.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - RHS AMPMETER CHANGED.'.

**17.01.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEAD LIGHT CIRCUIT BREAKER CHECKED OK.'.

**10.04.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - 5 WATER RADIATORS CHANGED.'.

**04.06.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**15.06.1990** Service defect: 'B - NO 2 T/M TO WASH OUT ;
**23.07.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.NO FAULTS FOUND.'.
**25.10.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - LOW WATER SWITCHES REMOVED,CLEANED & REPLACED.'.
**20.11.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**28.03.1991** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - RECORDING SPEEDO REPLACED.A/C CLOCK FAULTY.'.
**24.04.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FRONT T/MOTOR BLOWER FAN AND MOTOR REPLACED.'.
**10.07.1991** Service defect: 'UN - EXHAUST - EXHAUST GASKETS REPLACED.'.
**10.07.1991** Service defect: 'UN - FUEL SYSTEM LINES - H.P. FUEL LINE REPLACED.'.
**10.07.1991** Service defect: 'UN - LUBRICATING SYSTEM - LOCO FILLED WITH OIL.'.
**14.08.1991** Service defect: 'UN - AUXILLARY MACHINES - 'B' END TRACTION MOTOR BLOWER MOTOR CHANGED A/C BURNT OUT.'.
**14.08.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - 'A' END TRACTION MOTOR BLOWER MOTOR BRUSHES CHANGED A/C SHORT.LOCO RUN UP AND TESTED OKAY.'.
**07.10.1991** Service defect: 'UN - ENGINE CRANKSHAFT - NO.2 CRANKCASE COVER JOINT AND STUBS REPLACED.'.
**07.10.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO.1 INJ.EMOVED AND RELOCATED.'.
**07.10.1991** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LINE FROM PUMP TO ENGINE REPAIRED. NO.1 FUEL LINE TO PUMP REPLACED.'.
**07.10.1991** Service defect: 'UN - GENERAL - OIL DRAINED FROM FLOOR.'.

### 802

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**16.08.1989** Service defect: 'UN - EXHAUST - EXHAUST BOLTS TIGHTENED.'.
**16.08.1989** Service defect: 'UN - FUEL SYSTEM PUMP - NO1,4,5 FUEL PUMPS CHANGED A/C FUEL DILUTION.'.
**30.08.1989** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LEFT SIDE LOAD METER REPLACED A/C FAULTY.'.
**30.08.1989** Service defect: 'UN - GENERAL LOSS OF POWER - UNABLE TO OBTAIN FORWARD OR REVERSE.CONTROL AIR PRESSURE ADJUSTED A/C LOW.'.
**01.11.1989** Service defect: 'UN - FUEL SYSTEM LINES - NO1 HP FUEL LINE REPLACED.'.
**01.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**10.12.1989** Service defect: 'UN - FUEL SYSTEM LINES - NO5 INJECTOR PIPE CHANGED.'.
**10.12.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**24.01.1990** Service defect: 'C - FUEL SYSTEM PUMP - NO4 FUEL PUMP CHANGED.'.
**05.03.1990** Service defect: 'UN - FUEL SYSTEM LINES - HIGH PRESSURE FUEL LINE REPLACED.'.
**11.04.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - NO5 CYL HEAD CHANGED.'.
**30.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT LAY RUBS REPLACED.'.
**04.06.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**04.08.1990** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**18.10.1990** Service defect: 'TS - FUEL SYSTEM LINES - NO2 HP FUEL LINE CHANGED.'.
**18.10.1990** Service defect: 'TS - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**18.10.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES BOOKED FOR NOT RELEASING,CHECKED IN DEPOT,NO FAULT FOUND.'.
**09.07.1991** Service defect: 'UN - STORED.'.

### 803

Details: locomotive '803 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 12.8m
**Tare Weight:** 73.2tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $118780
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-5
**Date Built:** 07.10.1956
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 560kw
**Remarks:** W/O 29.08.92
**BSG Code:** LBAR

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 09.07.1991 | | |
| Last Lift: | 04.11.1983 | | |
| SW Service Mileage: | 702515 KM | SW Service Date: | 13.09.1990 |
| B Service Mileage: | 702810 KM | B Service Date: | 06.10.1990 |
| C Service Mileage: | 701580 KM | C Service Date: | 27.04.1990 |
| D Service Mileage: | 696455 KM | D Service Date: | 30.10.1989 |
| US Service Mileage: | 709929 KM | A Service Date: | 09.07.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**26.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - GOV CAM SWITCHES REPLACED A/C LOCO LACKING POWER.'.
**26.07.1989** Service defect: 'UN - TRACTION MOTOR - NO1 & 2TM'S WASHED A/C OIL.'.
**11.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO NOT WORKING.REPLACED SPEEDO RESISTOR.'.
**05.10.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - 3 OIL & 2 WATER RADIATORS CHANGED.'.
**25.10.1989** Service defect: 'UN - FUEL SYSTEM LINES - NO5 HP FUEL LINE REPLACED.'.
**25.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**05.12.1989** Service defect: 'UN - R.H.S.'A'STEP TO MOD.'.
**25.01.1990** Service defect: 'FA - BOGIE CHANGE A/C DAMAGED'.
**26.01.1990** Service defect: 'B - BOGIE CHANGE.'.
**30.01.1990** Service defect: 'SW - BOGIE - 'A'BOGIE REPAIRED.HANGER REPLACED.'.
**08.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NOTCH 1 POWER BOOKED EXCESSIVE.CHECKED OK IN DEPOT.'.
**13.09.1990** Service defect: 'SW - BATTERY MAINTENANCE - BATTERIES REPLACED.'.
**13.09.1990** Service defect: 'SW - BODY REPAIRS - ACCIDENT - PILOT REPAIRED. SANDPIPES, MAIN RESERVOIR BRACKETS STRAIGHT-ENED, EMERGENCY PIPES REWORKED. HAND RAILS STRAIGHTENED.'.
**13.09.1990** Service defect: 'SW - BOGIE REPAIRS - ACCIDENT - BOTTOM HALF OF NOS.1, 2, 3, 4 GEARCASES TO REPAIR - COMPLETEFIRST MOTION LEVER TO REPLACE - COMPLETED. NEW SPEEDO FITTED'.
**13.09.1990** Service defect: 'SW - BOGIE REPAIRS - ACCIDENT - DERAILMENT REPAIRS - INCIDENT NO. DC35'.
**13.09.1990** Service defect: 'SW - BOGIE REPAIRS - ACCIDENT - PULL RODS TO REPLACE - COMPLETED. OUTER BRAKE HANGER BOSS TOREPLACE - COMPLETED.'.
**13.09.1990** Service defect: 'SW - ENGINE - EXHAUST STUDS REPLACED, BLOWN GASKET TO TURBO REPLACED, EX- HAUST TO HEAD,GASKETS REPLACED. FUEL FILTER GASKET RENEWED.'.
**13.09.1990** Service defect: 'SW - ENGINE - LAYRUB COUPLING REWORKED. WATER TEMPERATURE GAUGE REPLACED.'.
**13.09.1990** Service defect: 'SW - TRACTION MOTOR - BELLOWS REPLACED ON TRACTION MOTORS.(2) NOS. 1 & 4 T/M LEADSREPAIRED.'.
**21.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - LEAKS REPAIRED ON COMP.A/C COMP OUTPUT RATE LOW.'.
**09.07.1991** Service defect: 'UN - STORED.'.

**804**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**27.07.1989** Service defect: 'SW - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**25.08.1989** Service defect: 'TS - FUEL SYSTEM LINES - NO4 HIGH PRESSURE FUEL LINE CHANGED.'.
**25.08.1989** Service defect: 'TS - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.
**19.09.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**19.09.1989** Service defect: 'UN - NO1 EXHAUST GASKET TO REPLACE.19/9*'.
**19.10.1989** Service defect: 'D - ELECTRICAL MISC. HEADLIGHT - EARTH ON HEADLIGHT RESISTORS REPAIRED.'.
**19.10.1989** Service defect: 'D - GENERAL - SEAT CUSHIONS & ARM REST REPAIRED.'.
**24.10.1989** Service defect: 'UN - EXHAUST - ALL EXHAUST GASKETS REPLACED.'.
**17.11.1989** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH REPLACED.SHAFT MOUNTING RUBBERS REPLACED.CRACKED FAN MOUNTING FRAME WELDED.'.
**22.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE VALVE REPAIRED A/C NOT SEATING.'.
**09.01.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH REMOVED & REPAIRED. FAN HOUSING REWELDED.'.
**11.01.1990** Service defect: 'UN - FUEL SYSTEM LINES - NO2 H/P FUEL PIPE REPLACED,A/C BROKEN.'.
**11.03.1990** Service defect: 'UN - GENERAL SHUTDOWN - BOOKED FOR SHUTTING DOWN.CHECKED IN DEPOT,NO FAULTS FOUND.'.
**14.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES FLAT,RECHARGED.'.

**805**

Details: locomotive '805 J' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 12.8m
**Tare Weight:** 73.2tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $118780
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-5
**Date Built:** 07.02.1957
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 560kw
**Remarks:** W/O 29.08.92
**BSG Code:** LBAR

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 12.08.1991 | | |
| Last Lift: | 14.12.1984 | | |
| SW Service Mileage: | 681071 KM | SW Service Date: | 26.07.1989 |
| B Service Mileage: | 691230 KM | B Service Date: | 24.07.1990 |
| C Service Mileage: | 694521 KM | C Service Date: | 20.11.1990 |
| D Service Mileage: | 689120 KM | D Service Date: | 23.04.1990 |
| US Service Mileage: | 704639 KM | A Service Date: | 12.08.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**18.07.1989** Service defect: 'UN - EXHAUST - NO4 EXHAUST GASKET CHANGED.'.
**18.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**26.07.1989** Service defect: 'SW - BOGIE MAINTENANCE - SPRINGS - RHS SPRING CHANGED A/C BROKEN BUCKLE.'.
**20.08.1989** Service defect: 'UN - FUEL LINE SUPPORT BRACKET TO WELD'.
**14.09.1989** Service defect: 'UN - BOTH DRIVE SHAFTS TO REPLACE A/C WORN SPLINES.'.
**05.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DEAD ENGINE DEVICE REPLACED A/C LEAKING THROUGH TO T/PIPE.'.
**05.10.1989** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO4 TM BRUSHES REPLACED.'.
**27.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR PIPES TO 'B'SIDE PEDESTAL RENEWED.'.
**29.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE WORK IN PEDESTAL REPAIRED A/C AIR LEAK.'.
**14.05.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C VISCOSITY.'.
**21.06.1990** Service defect: 'UN - BATTERY MAINTENANCE - NEW SET OF BATTERIES FITTED.'.
**21.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LHS FEED VALVE & RHS ISOLATING COCK CHANGED,DEAD ENGINE DEVICE CHANGED A/C OVERCHARGING.'.
**24.07.1990** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO HEAD REPLACED.'.
**31.01.1991** Service defect: 'UN - CONTACTOR INTERLOCKS - CONTACTS CLEANED AND TESTED*'.
**31.01.1991** Service defect: 'UN - EXHAUST - EXHAUST LEAK REPAIRED.30/1*'.
**19.02.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - TORQUE REGULATOR REPAIRED.A/C CONTACTS MELTED.'.
**19.02.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - 12 BRUSHES CHANGED NO 4 TM A/C PIGTAILS HANGING, FRAYED. LOCO MEGGERED P=500K.'.
**07.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL AIR PRESSURE ADJUSTED TO 70 LBS.'.
**11.04.1991** Service defect: 'UN - GENERAL ACCIDENT - COLLISION REPAIRS TO STEPS COMPLETED.'.
**29.05.1991** Service defect: 'UN - BOGIE - 8 BRAKE BLOCKS CHANGED.'.
**29.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL AIR FEED VALVE ADJUSTED.'.
**12.08.1991** Service defect: 'UN - GENERAL - AIR SYSTEMS ON SEATS BOTH SIDES REPAIRED.'.
**12.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL AIR VALVE & DOUBLE CHECK VALVE REPAIRED,A/C NO CONTROL AIR PRESSURE.'.

**806**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**807**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**808**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**14.11.1989** Service defect: 'UN - STEPS TO MODIFY.RN15/11.'.
**15.11.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO1 CYL HEAD CHANGED.'.
**15.11.1989** Service defect: 'UN - ENGINE LINER - NO1 LINER & PISTON CHANGED.'.
**29.11.1989** Service defect: 'UN - GENERAL - STEP MODIFICATIONS COMPLETED.'.
**26.02.1990** Service defect: 'B - COMP LAY RUBS TO RENEW.'.
**30.04.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - OIL RADIATORS CHANGED.'.
**30.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.
**04.05.1990** Service defect: 'UN - SANDER MAGNET VALVE REQUIRED.REAR SANDS.TYPE NV2A4'.
**17.05.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - 5 OIL RADIATORS REPLACED.'.
**17.05.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**31.05.1990** Service defect: 'C - COOLING SYSTEM RADIATOR - OIL RADIATOR CHANGED.'.
**10.08.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - SEVERAL OIL RADIATORS REPLACED.'.
**30.08.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - BOOKED FOR LOW POWER.ADJUSTED CAMS.CLEANED CONTACTS ON TORQUE REGULATOR.'.
**29.01.1991** Service defect: 'UN - OIL RADIATOR REQUIRED'.
**07.02.1991** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - LACK OF FIELD DIVERSION REPAIRED BY ADJUSTING CAM SWITCHES ON GOVERNOR.'.
**07.02.1991** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - OIL RADIATORS REPAIRED A/C LEAKING BADLY'.
**07.02.1991** Service defect: 'UN - RUNNING BOARDS TO BE CLEANED.'.

**809**

Details: locomotive '809 W' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 12.8m
**Tare Weight:** 73.2tonne

**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Original Cost:** $118780
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-5
**Date Built:** 31.08.1957
**Operating System:** AN
**Intended Use:** SHUNT
**Installed Power:** 560kw
**Remarks:** W/O 29.08.92
**BSG Code:** LBAR

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 21.05.1991 | | |
| Last Lift: | 27.06.1985 | | |
| SW Service Mileage: | 678536 KM | SW Service Date: | 27.06.1989 |
| B Service Mileage: | 693343 KM | B Service Date: | 28.11.1990 |
| C Service Mileage: | 686400 KM | C Service Date: | 14.02.1990 |
| D Service Mileage: | 690678 KM | D Service Date: | 20.08.1990 |
| US Service Mileage: | 697897 KM | A Service Date: | 21.05.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**13.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - HAND BRAKE REPAIRED A/C NOT WORKING.'.
**22.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT REPLACED.'.
**02.09.1989** Service defect: 'UN - GENERAL - AIR PIPE UNDER FLOOR REPAIRED.'.
**14.11.1989** Service defect: 'B - 0'.
**23.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.TORQUE REG,CAM SWITCHES CHECKED OK.'.
**28.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.FIELD DIVERTS CHECKED OK.'.
**10.05.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - LAY RUB COUPLING ON FAN DRIVE SHAFT CHANGED.'.
**11.12.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WASHED & TOPPED UP.'.
**08.01.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SHAFT REPAIRED.'.
**18.01.1991** Service defect: 'UN - BATTERY MAINTENANCE - 4 BATTERIES CHANGED.'.
**19.02.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - ADJUSTED CAM SWITCHES,CHECKED REG MOTOR,FILLED GEARS WITH OIL.ADJUSTED SPRING TENSION ON WIPER ARM,POWER =500A.'.
**20.02.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - TORQUE REG- WIRING RECONNECTED TO CAM SWITCHES.A/C POWER SURGE.'.
**22.02.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - POSITIVE FEED FROM INSTRUMENT LIGHTS SWITCH SHORTED TO FEED OF SFC CONTACTOR.REPAIRED.'.
**22.02.1991** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - SWAPPED WIRES ON CAM SWITCHES.'.
**02.03.1991** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER REPAIRED.'.
**18.03.1991** Service defect: 'UN - GENERAL - R/H SIDE SLIDING WINDOW REPAIRED.'.
**25.03.1991** Service defect: 'UN - GENERAL - R.H.S. WINDOW SEALS REPAIRED.'.
**29.04.1991** Service defect: 'UN - GENERAL - BILGE TANKS DRAINED & MOPPED,FOOTBOARDS WASHED.'.

**810**

**24.07.1986** Alteration complete 'RENUMBER INDIVIDUAL LOCOMOTIVES AND RAIL CARS AS LISTED. 500 TO 534, 600 TO 607, 700 TO 706, 800 TO 810, 830 TO 875, 930 TO 967 250 TO 261, 280 TO 283 & 100 TO 107 (RS4140)'.
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**03.08.1989** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR SHUTTING DOWN WHEN CONTROLLER MOVED PAST NOTCH 1.CHECKED IN DEPOT,NO FAULT FOUND.'.
**13.09.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER RADIATORS REPLACED.'.
**21.09.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER BOOKED FOR NOT THROWING OVER.CHECKED OK IN DEPOT.'.
**06.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**07.12.1989** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOCO BOOKED FOR OVERLOAD.TM'S CHECKED,LOCO TRACK TESTED,LOCOMEGGERED,NO FAULT FOUND.P-5M.'.
**28.02.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - LAY RUB COUPLINGS ON COMPRESSOR & GEAR BOX REPLACED.'.
**12.03.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES TOPPED UP WITH WATER.'.
**12.03.1990** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHECKED.'.
**12.03.1990** Service defect: 'B - BATTERIES TO CHECK'.
**13.03.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - WATER TEMP SWITCH REPLACED.'.
**12.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - OIL TEMP MICRO SWITCH ADJUSTED.MICRO RELAY SWITCH ADJUSTED.'.
**14.05.1990** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED A/C FAULTY.'.
**21.05.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - IC1 CLEANED A/C STUCK IN.'.
**21.05.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - L2 RADIATOR REPLACED.'.
**21.05.1990** Service defect: 'UN - EXHAUST - EXHAUST JOINTS REPLACED.'.
**29.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED A/C FLAT BATTERIES.'.
**16.06.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY SET CHANGED.'.
**04.10.1990** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVENOR REPLACED,LINKAGE LOOSENED,ENGINE SPEEDS CHECKED OK.'.
**17.10.1990** Service defect: 'B - AIR FILTERS TO REPLACE.17/10*'.
**29.04.1991** Service defect: 'UN - TRACTION MOTOR - NO1

T/MOTOR BLOWER REPLACED,A/C BURNT OUT.'.
**23.06.1991** Service defect: 'UN - WATER IN COMPRESSOR OIL.23/6.'.
**03.10.1991** Service defect: 'UN - LOCO STORED.'.

**831**

Details: locomotive '831 U' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $198950
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 25.02.1960
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 08.04.1997 | | |
| Last Lift: | 24.02.1975 | | |
| SW Service Mileage: | 1908627 KM | SW Service Date: | 06.03.1997 |
| A Service Mileage: | 1890061 KM | A Service Date: | 27.02.1996 |
| B Service Mileage: | 1884632 KM | B Service Date: | 28.10.1995 |
| C Service Mileage: | 1906562 KM | C Service Date: | 24.01.1997 |
| D Service Mileage: | 1577539 KM | D Service Date: | 06.07.1988 |
| WT Service Mileage: | 1606119 KM | WT Service Date: | 25.05.1989 |
| US Service Mileage: | 1911012 KM | A Service Date: | 08.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**18.08.1989** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - ELECTRICAL VIGILANCE FITTED AS PER WORKSHOP INSTRUCTIONS'.
**18.08.1989** Service defect: 'SW - ENGINE - ENGINE UPGRADED TO 1000 HORSEPOWER'.
**18.08.1989** Service defect: 'SW - FUEL SYSTEM INJECTORS - 157 DEGREE INJECTORS FITTED'.
**18.08.1989** Service defect: 'SW - FUEL SYSTEM PUMP - 16 MM PUMPS FITTED'.
**18.08.1989** Service defect: 'SW - GENERAL - ENGINE HOOD SEAL RENEWED*CAB SEALS CHECKED AND REPLACED AS REQUIRED'.
**18.08.1989** Service defect: 'SW - GENERAL - ALL MODS & ALTERATIONS CARRIED OUT AS PER INSTRUCTIONS RS4133 & W132'.
**22.08.1989** Service defect: 'SW - ELECTRICAL MISC. HEADLIGHT - FAULTY HEADLIGHT WIRING IN NOSE TERMINAL BOX RECTIFIED.'.
**24.08.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - NEGATIVE WIRE TO'A'END LIGHTS REPLACED.'.
**16.02.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 5 WICKS RENEWED.'.
**28.02.1990** Service defect: 'SW - VIGILANCE - PIPEWORK TO VIGILANCE RE-WORKED TO MAIN RESERVIOR'.
**13.03.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C VISCOSITY.OIL FILTERS CHANGED.OIL BY-PASS HOSES REPLACED.'.
**23.03.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - GAUGE LIGHT WIRING REPAIRED.'.
**15.05.1990** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED A/C LOCK NUT LOOSE.'.
**18.08.1990** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY REPLACED.'.
**05.09.1990** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED.'.
**17.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW - FRONT WINDOW CHANGED A/C BROKEN'.
**07.03.1991** Service defect: 'A - EARTH FAULT MISCELLANEOUS - E ON C FOUND TO BE ON GAUGE LIGHTS,WIRES INSULATED TESTED OK'.
**07.03.1991** Service defect: 'A - MAIN GENERATOR - 1 BRUSH HOLDER REPLACED ON MAIN GEN,A/C NO TENSION.BRUSHES BEDDED IN.'.
**08.03.1991** Service defect: 'UN - LUBRICATING SYSTEM - LEAK AT OIL STRAINER REPAIRED.'.
**02.10.1991** Service defect: 'B - BATTERY MAINTENANCE - L/H/S.BATTERY TO CHECK A/C FAULTY CELL.'.
**02.10.1991** Service defect: 'B - ELECTRICAL MISC. JUMPER CABLES - 'B' END RECEPTICLE REPAIRED.'.
**02.10.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 10 MAIN GEN. BRUSHES CHANGED.'.
**04.10.1991** Service defect: 'UN - BODY REPAIRS - ACCIDENT - R/H/S WINDOW REPLACED. A/C BROKEN BY ROCK.'.
**04.02.1992** Service defect: 'UN - GENERAL - SEATS FITTED.'.
**09.03.1992** Service defect: 'A - ELECT. MISC. - GAUGES & INSTRUMENTS - GLASS REPLACED ON PULL METER OK.'.
**09.03.1992** Service defect: 'A - ELECTRICAL MISC. MODULES - VOLTAGE REGULATOR REPLACED OK.'.
**09.03.1992** Service defect: 'A - FUEL SYSTEM INJECTORS - NO4 FUEL INJECTOR SIEZED,FREED OK.'.
**11.03.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO4 PIPES'B'END LHS AND RHS REPLACED A/C LEAKING.INDEPENDENTRELEASE VALVE REPLACED ALSO .INDEPENDENT BRAKE WORKS OK.'.
**29.05.1992** Service defect: 'C - CONTACTOR MISCELLANEOUS - TOP CONTACT ON REVERSER REPAIRED,A/C U/S.'.
**29.05.1992** Service defect: 'C - ELECT. MISC. - GAUGES & INSTRUMENTS - RHS LOAD METER REPLACED.'.
**29.05.1992** Service defect: 'C - ELECTRICAL MIS. EDDY CURRENT CLUTCH - 4 EDDY CURRENT CLUTCH BRUSHES CHANGED.'.
**29.05.1992** Service defect: 'C - ENGINE CYLINDER HEADS - NO 3 CYLINDER HEAD REPLACED,A/C 'CHUFFING'.'.
**29.05.1992** Service defect: 'C - FUEL SYSTEM PUMP - NO 3 FUEL PUMP REPLACED,A/C STICKING.'.
**29.05.1992** Service defect: 'C - MAIN GENERATOR BRUSHES - 10 MAIN GENERATOR BRUSHES CHANGED,A/C LENGTH.'.
**29.10.1992** Service defect: 'SW - EXHAUST - CRACKED EXHAUSTS REPLACED.'.
**29.10.1992** Service defect: 'SW - LUBRICATING SYSTEM OIL

COOLER - OIL LINE TO OIL COOLER REPLACED.'.
**25.11.1992** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET REPLACED, A/C BAD FLATS.'.
**25.11.1992** Service defect: 'TS - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C FAILED PINION END BEARING.T/M IN-269974. T/M OUT- 274850.'.
**20.03.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - ALL WICKS REPLACED EXCEPT R5.'.
**20.03.1993** Service defect: 'A - ENGINE WATER LEAK - NO'S 1,3 & 6 WATER HOSE ELBOWS REPLACED, A/C LEAKING.'.
**20.03.1993** Service defect: 'A - EXHAUST - EXHAUST MANIFOLD TIGHTENED.'.
**20.03.1993** Service defect: 'A - OTHER BODY REPAIRS - LONG HORN 'A'END CHANGED,A/C BROKEN. FUEL TANK BOLTS TIGHTENED. WINDSCREEN WIPER REPAIRED.'.
**19.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1,L2,R3 & R6 WICKS REPLACED.'.
**19.06.1993** Service defect: 'B - 8 WICKS TO REPLACE,A/C NIL STOCK MPC.18/6.'.
**08.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORN MOD COMPLETED.'.
**13.08.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SPEEDO BALLAST LAMP REPLACED.'.
**13.08.1993** Service defect: 'TS - TRACTION MOTOR - NO.5 T/M CHANGED A/C EARTH ON ARMATURE.'.
**20.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - HAND BRAKE REPAIRED A/C NOT WORKING. HAND BRAKE ASSEMBLY MISSING. H/BRAKE ASSEMBLY REPLACED.'.
**20.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE TO B/C ON OBS. SIDE LEAKING A/C RUBBING ON DRAINPIPE. *REPAIRED*.'.
**09.09.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - WICKS REPLACED.'.
**09.09.1993** Service defect: 'A - ENGINE LINER - NO 6 LINER REPLACED, A/C LEAKING. LOCO STARTED & TESTED OK.'.
**09.09.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYL PIPE ON 'B'END BOGIE REPAIRED, A/C HOLE.'.
**22.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - EARTH ON CONTROL - 40C W/SLIP WIRE INSULATED. EARTH ON CONTROL TRACED TO CANNON PLUG TO AIR/CON COMRESSOR. CANNON'.
**29.09.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY BOX REPAIRS COMPLETED AND 8 BATTERIES REPLACED.'.
**13.10.1993** Service defect: 'UN - AIR CONDITIONING - AIR CON. REPAIRED. TX VALVE AND DRYER REPLACED.'.
**13.10.1993** Service defect: 'UN - NO FAULT FOUND - BRAKE FAULT IN MULTIPLE UNIT. BRAKE TEST DONE AND NO FAULT WAS FOUND.'.
**06.11.1993** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP CONNECTED UP AND TESTED OK.'.
**06.11.1993** Service defect: 'UN - TRACTION MOTOR - T/MOTOR COVER REPLACED.'.
**03.12.1993** Service defect: 'A - ENGINE - 4 SUMP GASKETS REPLACED.'.
**03.12.1993** Service defect: 'A - ENGINE CYLINDER HEADS - NO 3 HEAD REPLACED, A/C WATER LEAK.'.
**03.12.1993** Service defect: 'A - EXHAUST - EXHAUST BOLT REPLACED & ALL BOLTS TIGHTENED.'.
**03.12.1993** Service defect: 'A - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C FIELD DOWN TO EARTH.'.
**16.12.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NO.5 T/M CHANGED A/C EARTHS ON MAIN FIELDS.'.
**01.02.1994** Service defect: 'UN - AIR CONDITIONING - AIR CON INSPECTION COMPLETED OK.'.
**17.02.1994** Service defect: 'B - GENERAL - LEFT AND RIGHT HAND SIDE ARM RESTS REPLACED.'.
**17.02.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END LHS INDEP BRAKE HANDLE REPLACED. RHS ISOLATING COCK REPLACED, A/C DEFECTIVE. 'A'END BRAKE PIPE HOSE REPLACED.'.
**17.02.1994** Service defect: 'B - TRACTION MOTOR - REAR T/MOTOR BLOWER BELTS REPLACED.'.
**28.04.1994** Service defect: 'SW - AEROQUIP FITTINGS STILL OUTSTANDING.28/4.'.
**06.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT - HAND BRAKE REPAIRED.'.
**06.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - 'A'END SANDING PIPE REPAIRED.'.
**14.05.1994** Service defect: 'SW - FUEL SYSTEM - FUEL TANK MODS COMPLETED.'.
**30.05.1994** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONER REFITTED, REGASSED AND BELTS FITTED.'.

**832**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**30.08.1989** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L3,L4 WICKS REPLACED.'.
**28.02.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L2,L4,R1,R2,R3,R5 WICKS CHANGED.'.
**28.02.1990** Service defect: 'A - FAN COIL O/C,NO MEDIUM.WIRED FOR FULL FAN ALL THE'.
**28.02.1990** Service defect: 'A - TIME.28/2*'.
**03.03.1990** Service defect: 'UN - FUEL SYSTEM - ENGINE BOOKED FOR BOGGING DOWN.IN LINE FUEL STRAINER CHECKEDOK.'.
**03.03.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CONTACTORS REPLACED.'.
**08.08.1990** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED TO 71V A/C HIGH.'.
**01.09.1990** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1,L2,R2,L4,R6 WICKS REPLACED.'.
**13.09.1990** Service defect: 'UN - BATTERY MAINTENANCE - 2 BATTERIES CHANGED.'.
**27.03.1991** Service defect: 'A - FUEL SYSTEM INJECTORS - NO6 INJECTOR PUMP REPLACED,A/C SEIZED.'.
**27.03.1991** Service defect: 'A - MAIN GENERATOR - MAIN GEN COVER REPLACED.'.
**27.03.1991** Service defect: 'A - 'A'END RH SIDE CAB SEAT TO REPAIR (BACK REST)BOLT'.
**27.03.1991** Service defect: 'A - MISSING.'.
**01.04.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRING & PLASTIC CONDUIT FROM RAD

FAN REPAIRED,A/C CLUTCH COVER LOOSE & CUT THROUGH WIRES.'.

**15.05.1991** Service defect: 'TS - ENGINE WATER LEAK - NO 6 WATER ELBOW GASKET CHANGED,A/C LEAKING.'.

**15.05.1991** Service defect: 'TS - FUEL SYSTEM INJECTORS - 6 INJECTORS CHANGED.'.

**15.05.1991** Service defect: 'TS - GENERAL - SEATS REPAIRED.'.

**31.07.1991** Service defect: 'SW - OTHER BODY REPAIRS - STEP MODIFICATIONS COMPLETED.'.

**04.09.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO.1 LHS WHEELSET REMOVED,HORN STAYS SPREAD AXLEBOX NOW FREETO MOVE.'.

**11.09.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHECKED OK.11PSI BOOST.'.

**11.09.1991** Service defect: 'UN - GENERAL - BURNT OIL OUT OF EXHAUST STACK UNDER LOAD.'.

**11.09.1991** Service defect: 'UN - NO 2 HEAD TO CHANGE NEXT SERVICE.11/9.'.

**19.09.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ALL SUSPENSION OILS CHANGED & BOXES CLEANED OUT.'.

**19.09.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - ALL WICKS CHANGED,A/C DIRTY.'.

**19.09.1991** Service defect: 'C - ENGINE CYLINDER HEADS - NO 2 HEAD CHANGED.'.

**16.10.1992** Service defect: 'SW - GENERAL - DRIVER ONLY MODIFICATIONS COMPLETED - NOW DA2.'.

**03.11.1992** Reclassified from locomotive '832 G' to ' locomotive 'DA 2 B'.

**833**

Details: locomotive '833 P' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $198950
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 27.04.1960
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 17.12.1996 | | |
| Last Lift: | 03.04.1981 | | |
| SW Service Mileage: | 210996 KM | SW Service Date: | 17.12.1996 |
| A Service Mileage: | 187701 KM | A Service Date: | 28.03.1995 |
| B Service Mileage: | 172527 KM | B Service Date: | 04.08.1994 |
| C Service Mileage: | 182965 KM | C Service Date: | 28.01.1995 |
| D Service Mileage: | 1618272 KM | D Service Date: | 06.07.1990 |
| F Service Mileage: | 1770542 KM | A Service Date: | 21.02.1994 |
| WT Service Mileage: | 48702 KM | WT Service Date: | 25.11.1991 |
| US Service Mileage: | 207986 KM | A Service Date: | 18.10.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**09.08.1989** Service defect: 'TS - TRACTION MOTOR - NO3 TM CHANGED A/C EARTH ON ARMATURE.(IN E7 OUT C73).'.

**18.10.1989** Service defect: 'UN - GENERAL ACCIDENT - LOCO CHECKED FOR DERAILMENT DAMAGE,CHECKED OK.'.

**23.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - R1,R3,R6 SAND PIPES REPAIRED.'.

**20.02.1990** Service defect: 'UN - COOLING SYSTEM - WATER RAIL GASKETS REPLACED.'.

**11.04.1990** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - LOAD TANK RESULTS TAKEN WITH ALCO TURBO -NAPIER TURBO FITTEDLOAD TANK RESULTS RETAKEN WITH NEW TURBO.'.

**17.04.1990** Service defect: 'SW - ENGINE GOVERNOR - GOVERNOR CHANGED A/C ENGINE SHUTTING DOWN IN NOTCHES 3 & 6.'.

**17.04.1990** Service defect: 'SW - NAPIER TURBO TO MONITOR A/C OILY EXHAUST STACK'.

**17.04.1990** Service defect: 'SW - WATER PUMP TO MONITOR A/C MINOR LEAK'.

**06.07.1990** Service defect: 'D - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED.'.

**19.07.1990** Service defect: 'SW - ENGINE - 16MM FUEL PUMPS FITTED & LOCO LOAD TESTED FOR TEST RESULTS REFER TO MR. BRUCE MCDONALD. (S.T.O.) RETURNED TO MEDD 19/07'.

**19.07.1990** Service defect: 'SW - ENGINE - TEST EQUIPMENT FITTED AND ENGINE UPGRADED TO 1000HP.'.

**26.07.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - LHS GF SWITCH REPLACED.'.

**01.08.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FAN CONTACTOR REPAIRED.'.

**01.08.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - LAMP HOLDER REPLACED A/C EARTH.'.

**01.08.1990** Service defect: 'UN - E ON C SINGLE UNIT ONLY IF REQUIRED'.

**29.08.1990** Service defect: 'TS - COOLING SYSTEM - FAN NOT WORKING.WIRE BLOWN OFF MAIN TERMINAL BOARD.REPAIRED.'.

**26.04.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO'S 3,4,& 6 INJECTORS REPLACED,A/C LEAKING.'.

**26.04.1991** Service defect: 'UN - TRACTION MOTOR - REAR T/MOTOR BLOWER BEARING FAN REPLACED,A/C NOISY BEARING.'.

**03.05.1991** Service defect: 'TS - FUEL SYSTEM - FUEL STRAINER CLEANED & NEW FILTERS PUT IN,A/C NO FUEL PRESSURE.'.

**28.05.1991** Service defect: 'UN - FUEL SYSTEM - FUEL FILTERS REPLACED,FUEL PRESSURE ADJUSTED,A/C LOOSING FUEL PRESSURE UNDER LOAD.'.

**15.07.1991** Service defect: 'UN - TRACTION MOTOR - T/MOTOR BLOWER FAN BEARINGS REPLACED.'.

**26.08.1991** Service defect: 'UN - BOGIE - ALL SUSPENSION BEARINGS LATERAL CLEARANCE MEASURED & RECARDED.ALL DUST SEALS REPLACED.'.

**26.08.1991** Service defect: 'UN - EXHAUST - NO 4 EXHAUST JOINT REPAIRED.'.

**26.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - 'B' PILOT CHECKED OK.'.

**21.11.1991** Service defect: ‘C - GENERAL - FUEL PRESSURE GUAGE GLASS REPLACED.’.
**21.11.1991** Service defect: ‘C - OTHER BODY REPAIRS - STEP MODS COMPLETED.’.
**11.02.1992** Service defect: ‘UN - AIR CONDITIONING - AIR/CON BELTS REPLACED.’.
**20.02.1992** Service defect: ‘A - GENERAL - L.H.S.ARM REST REPAIRED.OK.’.
**20.02.1992** Service defect: ‘A - NO FAULT FOUND - FUEL GAUGE TO REPLACE,COULD NOT FAULT.’.
**20.02.1992** Service defect: ‘A - OTHER BODY REPAIRS - ROOF TO RESEAL,CHECKED OUT OK.’.
**19.05.1992** Service defect: ‘B - AIR CONDITIONING - WATER LEAK FROM AIR CONDITIONER REPAIRED.’.
**19.05.1992** Service defect: ‘B - AUXILLARY MACHINES - EXHAUSTER MOTOR BRUSHES CHANGED,A/C BROKEN SPRINGS.’.
**19.05.1992** Service defect: ‘B - BOGIE MAINTENANCE - WHEELS - ALL SUSPENSION BEARING OIL BOXES DRAINED,A/C FULL OF DIRT. R6 SUSP BEARING FILLER CAP REPLACED.’.
**19.05.1992** Service defect: ‘B - BOGIE MAINTENANCE - WICKS - L1,L2,L4,L5,R1,R2,R4 & R5 WICKS REPLACED.’.
**19.05.1992** Service defect: ‘B - RADIATOR/PRESSURISING FAN - TRACTION MOTOR BLOWER FAN ‘B‘END REPLACED.’.
**31.08.1992** Service defect: ‘TS - FUEL SYSTEM LINES - NON-RETURN VALVE ON FUEL SUPPLY PIPE CLEANED OUT A/C BLOCKED. H/PRESSURE FUEL VALVE REPLACED. FUEL PRESSURE’.
**05.09.1992** Service defect: ‘UN - CONTACTOR INTERLOCKS - TRP INTERLOCK FOUND DIRTY.CLEANED..A/C GEN.FIELD KEPT CUTTING IN AND OUT.’.
**08.09.1992** Service defect: ‘UN - GENERAL LOSS OF POWER - BOTH FUEL RELIEF VALVES CLEANED A/C LOCO LOOSING POWER AND FUEL PRESSURE GAUGE SHOWING ZERO.’.
**11.09.1992** Service defect: ‘TS - FUEL SYSTEM - SUCTION STRAINER UNBLOCKED,PRIMARY & SECONDARY FUEL FILTERS CHANGED,A/C NO FUEL PRESSURE + SHUTTING DOWN.’.
**11.09.1992** Service defect: ‘TS - FUEL TANK TO DRAIN & TO LOCATE POSSIBLE HOSE’.
**11.09.1992** Service defect: ‘TS - COLLAPSED.11/9.’.
**15.09.1992** Service defect: ‘TS - GENERAL LOSS OF POWER - LOCO STARTED,POWER TEST OK.’.
**16.09.1992** Service defect: ‘TS - FUEL SYSTEM - FUEL TANK FLUSHED & REFILLED.RENEWED PRIMARY & SECONDARY FILTER,CLEANED STRAINER & RESET FUEL PRESSURE TO 30PSI.’.
**25.09.1992** Service defect: ‘A - COOLING SYSTEM - WATER LEAK FROM RHS OF AIR CONDITIONER CHECKED,SILASTIC APPLIED TO AREA.’.
**25.09.1992** Service defect: ‘A - ENGINE CYLINDER HEADS - NO 4 HEAD CHANGED, A/C WATER LEAK.’.
**25.09.1992** Service defect: ‘A - ENGINE LINER - NO 4 LINER CHANGED, A/C WATER LEAK.’.
**25.09.1992** Service defect: ‘A - GENERAL - EXHAUST LEAK NEAR CONCERTINAS REPAIRED.’.
**09.10.1992** Service defect: ‘UN - CONTACTOR MISCELLANEOUS - POWER CONTACTOR ADJUSTED,A/C SLOW PICKING UP.’.
**09.10.1992** Service defect: ‘UN - FUEL SYSTEM - FUEL TANK RECONNECTED. FUEL TANK BOLTS RETIGHTENED.’.
**09.10.1992** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - COUPLING PIN REPAIRED.’.
**03.11.1992** Service defect: ‘UN - ELECTRICAL MAINTENANCE -WIRING - SWAPPED WIRES 8 & 9 IN ‘A‘END JUMPER TERMINAL BOX.’.
**03.11.1992** Service defect: ‘UN - ENGINE CYLINDER HEADS - NO 1 HEAD REPLACED, A/C LEAKING.’.
**03.11.1992** Service defect: ‘UN - FUEL SYSTEM - NEW INLINE FUEL STRAINER FITTED (GM TYPE).’.
**05.11.1992** Service defect: ‘UN - FUEL SYSTEM PUMP - NO 6 FUEL PUMP REPLACED, A/C SIEZED.’.
**07.12.1992** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - CONTACTS ON COMP GOVERNOR REPLACED.’.
**07.12.1992** Service defect: ‘UN - TRACTION MOTOR - LONG END T/M BEARING THREADED TAPER SHAFT REPLACED.’.
**29.03.1993** Service defect: ‘C - AUXILLARY MACHINES - ALL AUX GEN BRUSHES CHANGED. ALL EXCITOR BRUSHES CHANGED.’.
**29.03.1993** Service defect: ‘C - ELECTRICAL MAINTENANCE - REVERSER - REVERSER REPLACED, A/C PREVIOUS REVERSER CONTACTS NOT CLOSING FULLY.’.
**29.03.1993** Service defect: ‘C - EXHAUST - EXHAUST LEAK,TIGHTENED ALL BOLTS,A/C LOOSE.’.
**29.03.1993** Service defect: ‘C - FUEL FILTERS - FUEL STRAINER REPLACED,A/C U/S.’.
**29.03.1993** Service defect: ‘C - MAIN GENERATOR BRUSHES - ALL M/GEN BRUSHES CHANGED,’.
**27.05.1993** Service defect: ‘UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORN MODS COMPLETED.’.
**27.05.1993** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED.’.
**28.05.1993** Service defect: ‘UN - BATTERY MAINTENANCE - TWO BATTERIES REPLACED A/C U/S.’.
**15.06.1993** Service defect: ‘A - BOGIE - L3 SLACK ADJUSTER OVERHAULED,A/C JAMMED SOLID.’.
**15.06.1993** Service defect: ‘A - EXHAUST - LONG EXHAUST CONNECTOR REPLACED. 4 EXHAUST BOLTS TIGHTENED, A/C LOOSE.’.
**09.08.1993** Service defect: ‘UN - ENGINE AIR FILTERS - TURBO AIR FILTER HOUSING REPAIRED & BRACKET REPAIRED. FILTERS REPLACED.’.
**21.08.1993** Service defect: ‘TS - BOGIE - BRAKE HANGER WELDED AND REPLACED. SLACK ADJUSTER EX 843 USEDA/C BRAKE GEAR FOUND DAMAGED.’.
**21.08.1993** Service defect: ‘TS - BOGIE MAINTENANCE - WICKS - 833 RELAESED FOR TRIAL RUN AND WICK CHECK ON NO. 3 W/SET.’.
**21.08.1993** Service defect: ‘TS - TRACTION MOTOR EARTH - NO.3 T/M CHANGED A/C EARTH ON ARMATURE. JOURNALS CLEANED UP.NEW SEALS FITTED TO GEARCASE.’.
**09.09.1993** Service defect: ‘UN - ENGINE CYLINDER HEADS - NO 4 HEAD REPLACED, A/C CRACKED. LOCO TESTED OK.’.
**09.09.1993** Service defect: ‘UN - FUEL SYSTEM INJECTORS - NO 4 INJECTOR CRAB BOLT REPLACED, A/C BROKEN.’.
**28.09.1993** Service defect: ‘UN - EXHAUST - SHORT EXHAUST BELLOW REPLACED & CHECKED OK, A/C CRACKED.’.
**28.09.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT

COUPLER - 'A'END COUPLER REPLACED, 'B'END COUPLER REPLACED WITH COUPLER EX 852, COUPLER SWIVEL PAD REPLACED 'B'END.'.

**27.10.1993** Service defect: 'TS - CONTACTOR MISCELLANEOUS - S1 CONTACTOR BRAID CHANGED, A/C SHUNT BROKEN OFF.'.

**27.10.1993** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - AUX GEN WIRING COMPLETED, A/C F2 WIRE FROM VOLT REG TO AUX EARTHED.'.

**27.10.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - FAN REPLACED EX 838. FAN GUARD INSTALLED. FAN RUN OK.'.

**25.11.1993** Service defect: 'A - EXHAUST - ALL EXHAUST BOLTS TIGHTENED.'.

**07.12.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER REPAIRED.'.

**21.02.1994** Service defect: 'F - BOGIE MAINTENANCE - WICKS - 3 WICKS REPLACED, A/C DIRTY. ALL WICKS REFILLED.'.

**21.02.1994** Service defect: 'F - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH COVER REPLACED.'.

**21.02.1994** Service defect: 'F - ELECTRICAL MISC - FUSES/HOLDERS - HOT ENGINE TEMP SWITCH REPLACED, A/C NOT WORKING. FAN CONTACTOR SWITCH CHECKED & ADJUSTED.'.

**21.02.1994** Service defect: 'F - ENGINE CYLINDER HEADS - NO 5 HEAD STUD REPLACED, A/C BROKEN.'.

**21.02.1994** Service defect: 'F - GENERAL - L/H SIDE DOOR W/SCREEN WIPER REPAIRED, A/C NOT WORKING.'.

**21.02.1994** Service defect: 'F - VIGILANCE - VIG CONTROL REPAIRED.'.

**14.04.1994** Service defect: 'UN - ENGINE - NO 4 POWER ASSEMBLY CHANGE COMPLETED. SAFETY VALVES REPLACED'.

**14.04.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGE COMPLETED.'.

**28.04.1994** Service defect: 'SW - AEROQUIP FITTINGS STILL OUTSTANDING.28/4.'.

**18.05.1994** Service defect: 'SW - FUEL SYSTEM - AEROQUIP FITTING (MODS) COMPLETED.'.

**19.05.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - LOAD AMMETER REPAIRED. EXHAUSTER MOTOR CHANGED, A/C BURNT OUT.'.

**19.05.1994** Service defect: 'A - EXHAUST - ALL EXHAUST MANIFOLD AND INLET MANIFOLD BOLTS TIGHTENED.'.

**19.05.1994** Service defect: 'A - FUEL SYSTEM INJECTORS - NO 5 INJECTOR CHANGED.'.

**19.05.1994** Service defect: 'A - FUEL SYSTEM PUMP - NO 5 PUMP CHANGED.'.

**19.05.1994** Service defect: 'A - RADIATOR/PRESSURISING FAN - FAN SHAFT COVER REPAIRED.'.

**834**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**835**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**05.07.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO3 CYL HEAD CHANGED.'.

**05.07.1989** Service defect: 'UN - ENGINE LINER - NO3 LINER CHANGED A/C CRACKED.'.

**29.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L2,L4 WICKS CHANGED.'.

**07.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - BALLAST LAMP REPLACED A/C SPEEDO NOT WORKING.'.

**27.10.1989** Service defect: 'UN - BOGIE - BOGIES CHANGED FROM STANDARD TO BROAD GAUGE.'.

**27.10.1989** Service defect: 'UN - TRACTION MOTOR - TM'S FITTED 238,E119,221,E128,270,236.'.

**01.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L1,L6,R2 WICKS & OILS CHANGED A/C DIRTY.'.

**10.11.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - ALL TURBO BOLTS TIGHTENED A/C OIL LEAKS.'.

**14.11.1989** Service defect: 'UN - VIGILANCE - CHECK VALVE GASKETS RENEWED.'.

**07.02.1990** Service defect: 'SW - OTHER BODY REPAIRS - LOCO PAINTED TO CORPORATE COLOURS'.

**15.02.1990** Service defect: 'A - SHORT EXHAUST CONNECTOR TO REPLACE.15/2*'.

**12.06.1990** Service defect: 'UN - GENERAL ACCIDENT - HAND RAILS STRAIGHTENED,FOOT PLATE REPAIRED A/C COLLISION DAMAGE.'.

**22.06.1990** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED A/C CRACKED.'.

**04.10.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - FUEL TAG WIRING ADDED.'.

**04.10.1990** Service defect: 'UN - NO 6 GEARCASE SEALS TO REPLACE'.

**23.10.1990** Service defect: 'SW - OTHER BODY REPAIRS - BATTERY BOX FLOOR RENEWED. HOLE IN METAL FLOOR REPAIRED. CABDOOR FRAMES AT FLOOR LEVEL REPAIRED A/C CORROSION BATT. ACID'.

**23.10.1990** Service defect: 'SW - OTHER BODY REPAIRS - CAB'S WOODEN FLOOR REPLACED & NEW LINO FITTED. SUPPORTS FOR AIR TAPS REWORKED AT 'A' END.'.

**09.09.1991** Service defect: 'A - VIGILANCE - VIG FAULT REPAIRED,A/C BLOCKED CHOKE.'.

**09.09.1991** Service defect: 'A - GEAR CASE SEALS LEAKING CRATER INTO WICK BOXES.9/9'.

**22.10.1991** Service defect: 'UN - BOGIE - BOGIE CHANGE COMPLETED IN - 95, 125.'.

**24.04.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.2 TRACTION MOTOR CHANGED A/C VEE RING LOOSE.'.

**21.08.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV.ADJUSTED A/C SET FOR MAX. FIELD START SHOULD BE MIN. FIELD START.'.

**21.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - BREMSHEY SEATS FITTED. SEAT MODS. DONE. SAFETY CHAINS MODS. COMPLETED.'.

**21.08.1992** Service defect: 'UN - VIGILANCE - 'D' TYPE MAGNET VALVE CHANGED A/C VIGILANCE NOT

WORKING.'.
**27.08.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR PIPE MODIFIED A/C HITTING LOCO BOGIE.'.
**08.06.1993** Reclassified from locomotive '835 K' to ' locomotive 'DA 3 K'.

**836**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**13.12.1989** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR RHS REPLACED.'.
**21.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY.RESISTOR REPLACED.'.
**28.03.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - BOOKED FOR NO POWER.GEN FIELD CONTACTOR REPAIRED.BROKEN LUG ON AUX CONTACT OF REVERSER REPAIRED.'.
**02.04.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSS POWER.CHECKED OK IN DEPOT.'.
**29.04.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - LOCO LOST POWER.CK1 CONTACT CLEANED & ADJUSTED.'.
**10.06.1990** Service defect: 'UN - TRACTION MOTOR - NO4 TM CHANGED A/C EARTH ON FIELDS.(IN E127 OUT 110).'.
**24.08.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSS OF POWER.G/R PARTIALLY TRIPPED,RESET,POWER OK.'.
**28.08.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R2,L3,R3 WICKS REPLACED'.
**17.09.1990** Service defect: 'SW - OTHER BODY REPAIRS - CABIN FLOOR REPLACED & RECOVERED.'.
**11.10.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 'B'END AIR PIPE TO MAGNET VALVE REPAIRED.'.
**24.04.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - DIRTY WICKS CHANGED ON R3,R5&R6 AXLES.'.
**24.04.1991** Service defect: 'C - ENGINE WATER LEAK - WATER LEAK - NO6 HEADER RAIL GASKET REPLACED.'.
**05.06.1991** Service defect: 'UN - CONTACTOR EP VALVES - MAGNET VALVE REPLACED,A/C BLOWING.'.
**26.09.1991** Service defect: 'A - 'A' SERVICE.'.
**08.10.1991** Service defect: 'B - BOGIE MAINTENANCE - WICKS - ALL WICKS CHANGED. A/C SLUDGE IN BOTTOM OF JOURNAL CAPS.'.
**08.10.1991** Service defect: 'B - LUBRICATING SYSTEM - ENGINE OIL DRAINED AND REPLACED.'.
**08.10.1991** Service defect: 'B - STEP MODIFICATIONS.'.
**09.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - STEP MODIFICATIONS COMPLETED.'.
**10.07.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 'B' END SANDING MAGNET VALVE REPLACED.'.
**10.07.1992** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'&'B' END COUPLERS CHECKED OK.'.
**15.01.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - SOUND WARNING - HORN MODS.COMPLETED.'.
**15.01.1993** Service defect: 'SW - OTHER BODY REPAIRS - LATCHES ON ELECTRICAL COMPS.FIXED.'.
**15.01.1993** Service defect: 'SW - VIGILANCE - VIGILANCE MODS.COMPLETED AND TESTED OK.'.
**20.01.1993** Service defect: 'UN - VIGILANCE - VIGILANCE CONTROL RELAY BASE REPLACED.TESTED OK.'.
**05.03.1993** Service defect: 'C - BOGIE - SLACK ADJUSTER CHANGED.'.
**05.03.1993** Service defect: 'C - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL IN HOTPLATE REPAIRED.'.
**05.03.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - TERMINAL REPLACED ON REAR TERMINAL BOARD. EXCITER & AUX GEN 'VEED' OUT.'.
**05.03.1993** Service defect: 'C - ENGINE WATER LEAK - WATER LEAK ON BRANCH PIPE REPAIRED.'.
**05.03.1993** Service defect: 'C - EXHAUST - EXHAUST REPAIRS COMPLETED,STACK REPLACED.'.
**05.03.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SAND HOSES R3 & L3 REPLACED.'.
**12.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - RHS LONG END SAND PIPE STRAIGHTENED AND TESTED OKAY'.
**12.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - SUNSHADE REPLACED'.
**22.05.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - ALL WICKS RENEWED.'.
**22.05.1993** Service defect: 'A - TRACTION MOTOR - 'A'END BLOWER BELTS REPLACED.'.
**03.06.1993** Service defect: 'UN - FUEL PUMP MOTOR - LOCO SHUT DOWN A/C FUEL PUMP U/S. FUEL PUMP REPLACED.'.
**12.08.1993** Service defect: 'B - COOLING SYSTEM - WATER ELBOWS FITTED.'.
**25.08.1993** Service defect: 'SW - AIR CONDITIONING TO BE DONE AT PORT AUGUSTA'.
**26.10.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 3 WHEELSET REPLACED, A/C CRACKED WHEEL. BOGIES EX 838.'.
**04.11.1993** Service defect: 'A - CONTACTOR EP VALVES - TWO SANDING MAGNET VALVES REPLACED, A/C LEAKING.'.
**04.11.1993** Service defect: 'A - TRACTION MOTOR - 'B'END T/M BLOWER PULLEY REPAIRED, A/C LOOSE ON SHAFT. NO 4 T/M WASHED, A/C FULL OF OIL.'.
**09.11.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER REPAIRS - STRAIGHTENED CARRIER PLATE AND REINSTALLED.'.
**09.11.1993** Service defect: 'UN - AIR/CON REMOVED, A/C WATER LEAK. TEMPORARY COVER'.
**09.11.1993** Service defect: 'UN - INSTALLED ON ROOF.9/11.'.
**26.11.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRE RELUGGED/RECONNECTED ON INTERLOCKS ON REVERSER, TESTED OK, A/C NO POWER.'.
**01.12.1993** Service defect: 'UN - AIR CONDITIONING - AIR/CONDITIONER UNIT REPLACED.'.
**29.02.1996** Reclassified from locomotive '836 T' to ' locomotive 'DA 6 Y'.

**837**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS.

CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**838**

Details: locomotive '838 Y' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $198950
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 21.06.1960
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 15.03.1997 | | |
| Last Lift: | 11.04.1980 | | |
| SW Service Mileage: | 198535 KM | SW Service Date: | 05.01.1996 |
| A Service Mileage: | 229595 KM | A Service Date: | 12.12.1996 |
| B Service Mileage: | 243441 KM | B Service Date: | 15.03.1997 |
| C Service Mileage: | 214078 KM | C Service Date: | 03.09.1996 |
| D Service Mileage: | 194383 KM | D Service Date: | 10.11.1995 |
| WT Service Mileage: | 84277 KM | WT Service Date: | 09.11.1992 |
| US Service Mileage: | 227072 KM | A Service Date: | 22.11.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**19.07.1989** Service defect: 'UN - FUEL SYSTEM PUMP - NO6 FUEL PUMP CHANGED A/C ENGINE MIS-FIRING.'.
**02.11.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3,R4,R5,L4 WICKS REPLACED.'.
**23.11.1989** Service defect: 'UN - ENGINE - ENGINE OVERSPEED REPAIRED A/C UNABLE TO RESET.'.
**19.12.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - AUXILARY CONTACTS ON GF TIGHTENED.'.
**21.01.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRES 42 & 71C REPAIRED A/C NO POWER'.
**22.02.1990** Service defect: 'UN - VIGILANCE - VIGILANCE LIGHTS REPOSITIONED.'.
**01.03.1990** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L2,R2,R5 WICKS REPLACED.'.
**02.03.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - GROUND RELAY OPERATED WHEN STARTING LOCO.FUEL PUMP BRUSHES REPLACED.'.
**12.03.1990** Service defect: 'UN - VIGILANCE - VIGILANCE NOT WORKING.TIMING CHOKE CLEARED,'T'PIECE TO VIG GAUGE FAULTY.'.
**23.03.1990** Service defect: 'UN - GENERAL - HAND BRAKE ASSEMBLY REPAIRED.'.
**16.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO4 CONTROL PIPE LHS 'B'END REPLACED.'.
**16.10.1990** Service defect: 'UN - NO6 HEAD TO CHANGE A/C FAULTY VALVE.'.
**27.10.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2,R3,R5 WICKS RENEWED.'.
**23.01.1991** Service defect: 'UN - TRACTION MOTOR - NO. 6 TRACTION MOTOR CHANGED'.
**20.02.1991** Service defect: 'TS - TRACTION MOTOR EARTH - NO6 TM CHANGED OUT A/C EARTH ON POWER.'.
**24.05.1991** Service defect: 'UN - OTHER BODY REPAIRS - RHS DOOR TOP HINGE REPLACED,WINDOW SEALS REPLACED WHERE NECESSARY,DOOR SEALS ON NOSE COMPARTMENT REPLACED.'.
**17.07.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO'S 2,3 & 5 INJECTORS REPLACED, A/C LEAKING.'.
**17.07.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED.'.
**17.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - STEP MODS COMPLETED.'.
**24.04.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL PIPE 'B'END REPLACED,A/C LEAKING.CHECKED OK.'.
**16.11.1992** Service defect: 'A - EXHAUST - EXHAUST JOINTS TIGHTENED.'.
**16.11.1992** Service defect: 'A - FUEL SYSTEM PUMP - NO 6 FUEL PUMP CHANGED, A/C STICKY SCROLL.'.
**16.11.1992** Service defect: 'A - GENERAL - FLOOR REPS COMPLETED.'.
**04.12.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRING LOOM REPAIRED, A/C BURNT.'.
**12.01.1993** Service defect: 'UN - VIGILANCE - NEW MAGNETIC VALVE FITTED.VALVE BRACKET STRENGTHENED ALSO. AIR SUPPLY FIXED.TESTED OK.'.
**27.03.1993** Service defect: 'A - ENGINE CYLINDER HEADS - NO 6 HEAD REPLACED,RECHECKED. FUEL CUT BACK 1.5MM A/C POPPING OCCASIONALLY. INJECTOR REMOVED & SEAT CLEANED. ALL'.
**27.03.1993** Service defect: 'A - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED.'.
**27.03.1993** Service defect: 'A - MECHANICAL EQUIPMENT - RADIATOR FAN,GEARBOX & EDDY CURRENT CLUTCH REPLACED,EX 839 A/C BEARING U/S.'.
**10.05.1993** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L2 WICK AND OIL CHANGED A/C DIRTY OIL.'.
**18.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - 6 WICKS CHANGED.'.
**18.06.1993** Service defect: 'B - EXHAUST - EXHAUST REPAIRS COMPLETED.'.
**18.06.1993** Service defect: 'B - 'A'END PACKAGE TO MONITOR.18/6.'.
**22.10.1993** Service defect: 'SW - TO BE AIRCONDITIONED(AND FIXED) AT PORT AUGUSTA.'.
**22.10.1993** Service defect: 'SW - PLEASE NOTE-NEXT TIME COULD MPC PLEASE BOOK THEIR'.
**22.10.1993** Service defect: 'SW - OWN LOCOS OUT,OR FAILING THAT,PLEASE TELL SOMEONE'.
**22.10.1993** Service defect: 'SW - WHERE THEY ARE AND WHAT IS WRONG WITH THEM.'.
**10.01.1994** Service defect: 'C - AIR CONDITIONING - PIT STOP ENGINEERING COMMISIONED AIR-COND. UNIT OK.'.
**10.01.1994** Service defect: 'C - BOGIE MAINTENANCE - WICKS - WICKS REPLACED, AC DIRTY. OIL DRAINED

AND REPLACED ALSO.'.
**10.01.1994** Service defect: 'C - CONTACTOR MISCELLANEOUS - NEW ARC SHUTES FITTED TO CONTACTORS.'.
**10.01.1994** Service defect: 'C - FUEL PUMP MOTOR - FUEL PUMP MOTOR REPLACED,A/C DOWN TO EARTH.'.
**10.01.1994** Service defect: 'C - OTHER BODY REPAIRS - LEFT HAND SEAT REPLACED.'.
**22.01.1994** Service defect: 'UN - FUEL SYSTEM - FUEL PRESSURE DROPS TO ZERO UNDER LOAD. IN-LINE FUEL FILTERCHANGED. FINAL FILTER CHANGED.'.
**10.02.1994** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONER UNIT SEALED WITH SILASTIC, A/C AIR CON WATERLEAKS.'.
**21.03.1994** Service defect: 'A - BOGIE - NO.1 AXLE CHECKED FOR SCORING AS PER SERVICE SHEET. AXLE CHECKED OK.'.
**21.03.1994** Service defect: 'A - BOGIE MAINTENANCE - WICKS - ALL SUSPENSION BEARING OILS DRAINED AND REFILLED, A/C WATER IN OIL.'.
**21.03.1994** Service defect: 'A - COOLING SYSTEM WATER PUMP - WATER PUMP CHECKED FOR LEAKS AS REPORTED, PUMP OK, LOOKS NEW.'.
**21.03.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - ENGINE WARNING ALARM REPLACED, A/C MISSING.'.
**21.03.1994** Service defect: 'A - ENGINE - R/H/S MAIN AND BIG END SPLIT PINS REPLACED.'.
**21.03.1994** Service defect: 'A - EXHAUST - EXHAUST GASKETS REPLACED.'.
**21.03.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR GOVERNOR ADJUSTED AS PER AIR TEST.'.
**21.03.1994** Service defect: 'A - LHS RAD. TO MONITOR, A/C OLD AND DETERIORATING.'.
**21.03.1994** Service defect: 'A - LHS MAIN AND BIG END BEARING SPLIT PINS TO DO, NOT'.
**21.03.1994** Service defect: 'A - DONE, A/C NO PARTS. 'A'END PACKAGE TO CHANGE. THE'.
**21.03.1994** Service defect: 'A - TOILET TUBE TO REPLACE, A/C RUSTED THROUGH.21/3/94'.
**08.04.1994** Service defect: 'UN - BATTERY MAINTENANCE - 2 BATTERIES REPLACED, CHARGE CHECKED OK.'.
**08.04.1994** Service defect: 'UN - GENERAL - LOG BOOK REPAIRS COMPLETED.'.
**22.04.1994** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONER REFIT COMPLETED, AIR CON SECURED AND RECONNECTED.'.
**22.04.1994** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 2 WHEELSET GROUND, A/C SKIDDED.'.
**26.04.1994** Service defect: 'SW - AIR CONDITIONING - AIR/CON UNIT SWAPPED WITH UNIT IN 836, A/C LEAKING WATER INTO CAB. BOTH UNITS REGASSED.'.
**27.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L3,L6,R3 AND R6 SANDERS REPAIRED, A/C DERAILMENT.'.
**27.04.1994** Service defect: 'UN - OTHER BODY REPAIRS - 'B'END RHS STAIRS REPAIRED, A/C DERAILMENT.'.
**03.05.1994** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED. DIRECTION TESTED OK.'.
**03.05.1994** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - LIGHT FITTING IN O/S AMMETER SHORTED TO EARTH, BOTH GAUGE LIGHT RESISTORS MELTED. DRIVERS SIDE RESISTOR REPLACED, O/S'.
**15.06.1994** Service defect: 'B - BOGIE MAINTENANCE - WICKS - ALL WICKS AND OIL CHANGED.'.
**15.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDERS CLEARED.'.
**15.06.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - T.P. HOSE REPLACED 'B'END, M.R. HOSE REPLACED 'A'END.'.
**15.06.1994** Service defect: 'B - VIGILANCE - VIG RESEALED.'.
**23.06.1994** Service defect: 'TS - FUEL PUMP MOTOR - FUEL PUMP MOTOR CHANGED, A/C BURNT OUT.'.
**23.06.1994** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMP CHANGED, A/C SEIZED.'.

**839**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**02.08.1989** Service defect: 'UN - EXHAUST - LONG EXHAUST CONNECTOR CHANGED.'.
**17.10.1989** Service defect: 'SW - ENGINE - COMPLETE ENGINE CHANGE WITH S/HAND ENGINE EX TASMANIA ENG UPGRADED * 16MM PUMPS FITTED * 32MM RACK SETTINGS'.
**17.10.1989** Service defect: 'SW - GENERAL - HOOTER LINES RE-ROUTED ( RS4133 )'.
**17.10.1989** Service defect: 'SW - OTHER BODY REPAIRS - ENG. HOOD SEALS REPLACED - CAB SEALS RENEWED AS REQUIRED - NEW LINO FITTED TO FLOOR - SEATS RE-TRIMMED'.
**17.10.1989** Service defect: 'SW - VIGILANCE - ELECTRICAL VIGILANCE FITTED'.
**27.11.1989** Service defect: 'UN - EXHAUST - NO 1,2,3 EXHAUST GASKETS CHANGED.'.
**12.01.1990** Service defect: 'UN - ENGINE - NO.6 HEAD, LINER & PISTON RINGS REPLACED. CHECKED O.K.'.
**19.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L5 WICK REPLACED.'.
**22.01.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - EXCITER TERMINAL STRIP REPLACED A/C BURNT WIRE.'.
**14.03.1990** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED.'.
**06.04.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - NO5 HEAD STUD REPLACED.'.
**18.04.1990** Service defect: 'UN - ENGINE - LINER & PISTON CHANGED.A/C NO5 CYL FAULTY.'.
**07.07.1990** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1 WICK CHANGED.'.
**25.07.1990** Service defect: 'UN - GENERAL - CAB DOOR & WINDOW SEALS REPAIRED.'.
**10.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - FRONT WINDOW D/SIDE REPLACED.'.
**21.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED - WITHIN TOLERANCE.'.
**11.02.1991** Service defect: 'UN - AUXILLARY MACHINES - CRANKCASE EXHAUSTER REPLACED'.
**07.06.1991** Service defect: 'UN - EXHAUST - LOWER EXHAUST BELLOW REPLACED,GASKET BOLT FROM UPPER BELLOW REPLACED,CHECKED OK.'.
**18.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WIRES FOUND LOOSE & DIRTY,CUBICLE BLOWN OUT,WIRES TIGHTENED.LUG

REPLACED IN AUX GEN,A/C POWER FAULT.'.

**15.08.1991** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - HEAT EXCHANGER ASSEMBLED & REINSTALLED IN LOCO.'.

**15.08.1991** Service defect: 'UN - VIGILANCE - VIG REPAIRED,SQUARE 'D'REPLACED.'.

**27.11.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES REPLACED.'.

**27.11.1991** Service defect: 'UN - GENERAL - SEAT REPLACED.'.

**27.11.1991** Service defect: 'UN - TRACTION MOTOR - 'B'END T/MOTOR BLOWER BEARING (PULLY END) REPLACED.'.

**10.01.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L2 AND R6 WICKS REPLACED AND OIL CHANGED.'.

**10.01.1992** Service defect: 'A - COOLING SYSTEM - COOLANT WATER CHANGED.'.

**10.01.1992** Service defect: 'A - EXHAUST - EXHAUST MANIFOLD LEAKS REPAIRED.'.

**10.01.1992** Service defect: 'A - MECHANICAL EQUIPMENT - 'A' END T/M BLOWER BEARING AND SHAFT REPLACED.'.

**10.01.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R3,R4 ANDL3,L4 SANDERS REPAIRED.'.

**10.01.1992** Service defect: 'A - AIR CON TO REGAS.-T/M AIR FLOW VERY WEAK.'.

**26.03.1992** Service defect: 'B - COOLING SYSTEM - COOLANT CHANGED.A/C OIL IN WATER.'.

**26.03.1992** Service defect: 'B - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED.A/C U/S.EX 832.'.

**26.03.1992** Service defect: 'B - LHS SEAT UPHOLSTERY TORN.'.

**27.03.1992** Service defect: 'UN - TRACTION MOTOR - NO.5 T/M WASHED. TEST RUN UP AND DOWN TRACK.-CHECKED OK.'.

**29.05.1992** Service defect: 'SW - COOLING SYSTEM - HEAT EXCHANGER REPLACED.'.

**29.05.1992** Service defect: 'SW - GENERAL - L/SIDE 'A'END WINDSCREEN WIPER ADJUSTED.'.

**29.05.1992** Service defect: 'SW - MECHANICAL EQUIPMENT - COMPRESSOR GOVERNOR ADJUSTED.'.

**07.08.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - NEW TURBO FITTED A/C INLET DUCTS FOUND MELTED. TURBO INLET DUCTS MODIFIED.'.

**11.08.1992** Service defect: 'A - OTHER BODY REPAIRS - LEFT HAND SEAT REPLACED A/C TORN UPHOLSTERY.'.

**15.08.1992** Service defect: 'SW - TRACTION MOTOR - NO.5 T/M CHANGED A/C EARTH ON ARMATURE AND INTERPOLES.'.

**18.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV. CONTACTS CLEANED AND ADJUSTED. A/C ERRATIC OPERATION.'.

**23.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - R.H.S. INDEPENDANT ROTARY CHANGED A/C WORN.'.

**08.09.1992** Service defect: 'UN - RADIO REPAIR - LEFT HAND SIDE HAND PIECE REPLACED A/C LOOSE WIRE.'.

**21.09.1992** Service defect: 'UN - AIR CONDITIONING - A/COND FILTERS CLEANED.'.

**21.09.1992** Service defect: 'UN - ENGINE - NO 5 ROCKER GEAR ASSEMBLED & TIMING (PUMP) CHECKED.LOCO STARTED NO FAULT FOUND.'.

**28.09.1992** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL - ROOF LEAKS AROUND AIR CON UNIT - MEGGEREDOK, ROOF PULLED DOWN, AIR COND UNIT HOSE REPLACED,'.

**21.10.1992** Service defect: 'TS - ENGINE - NO 3 PISTON & CYL HEAD ASSEMBLED.ENGINE OIL FILLED UP & WATER. LOCO RUN UP OK.'.

**06.11.1992** Service defect: 'F - EXHAUST - LONG EXHAUST CONCERTINA CHANGED.'.

**06.11.1992** Service defect: 'F - FUEL SYSTEM - H.P. FUEL PIPE STUD IN HEAD REPLACED,A/C CRACKED OFF.'.

**06.11.1992** Service defect: 'F - MECHANICAL EQUIPMENT COMPRESSOR - SUMP OF COMPRESSOR CLEANED, A/C FULL OF CARBON & COPPER GAUGE. COMPRESSOR MOUNTING REWELDED,A/C CRACKED.'.

**11.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR SWITCH REPAIRED.'.

**11.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR COMPRESSOR UNLOADRES REPAIRED.'.

**05.12.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - PUMP TIMING CHECKED OK, A/C NO 6 CYLINDER KNOCKING.'.

**05.12.1992** Service defect: 'UN - EXHAUST - EXHAUST BELLOWS GASKET REPLACED.'.

**07.01.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - TO W.T.M. A/C FLANGES TO HIGH.'.

**27.01.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER BELTS FITTED.'.

**27.01.1993** Service defect: 'UN - FUEL SYSTEM - IN-LINE FUEL STRAINER CLEANED.'.

**27.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - FAST COUPLING FILLED WITH GREASE.'.

**22.04.1994** Reclassified from locomotive '839 A' to ' locomotive 'DA 4 T'.

**22.04.1994** Service defect: 'SW - GENERAL - 839 HAS HAD DRIVER ONLY OPERATION MODIFICATIONS PERFORMED - IT IS NOW KNOWN AS DA4 - UNIVIG VIGILANCE ALSO INSTALLED.'.

### 840

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### 841

Details: locomotive '841 F' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $176650

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 23.06.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 26.03.1997 | | |
| Last Lift: | 15.06.1983 | | |
| SW Service Mileage: | 1739287 KM | SW Service Date: | 20.09.1996 |
| A Service Mileage: | 1746851 KM | A Service Date: | 04.12.1996 |
| B Service Mileage: | 1737769 KM | B Service Date: | 03.09.1996 |
| C Service Mileage: | 1760269 KM | C Service Date: | 07.03.1997 |
| D Service Mileage: | 1589598 KM | D Service Date: | 15.07.1992 |
| F Service Mileage: | 1704553 KM | A Service Date: | 18.03.1995 |
| US Service Mileage: | 1760868 KM | A Service Date: | 20.03.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**02.07.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FUEL PUMP CONTACTOR COIL REPLACED.'.
**14.07.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED A/C NOZZLE RING SECURING BOLTS BROKEN.'.
**14.07.1989** Service defect: 'UN - TOP EXHAUST CONNECTOR TO REPLACE [LONG!'.
**28.07.1989** Service defect: 'UN - ENGINE - COLD WATER LEAK CHECK.NO DEFECT FOUND.'.
**28.08.1989** Service defect: 'UN - VIGILANCE - VIGILANCE VARIABLE CHOKE ADJUSTED.A/C EMERGENCY VALVE OPERA-TING.'.
**05.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - LHS SANDING SWITCH REPAIRED.'.
**06.09.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - RHS FRONT HEADLIGHT SWITCH REPLACED A/C HOT CONTACTS.'.
**12.09.1989** Service defect: 'SW - ENGINE LINER - NO 3 LINER SEALS REPLACED.'.
**12.09.1989** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - R/SIDE ISOLATING COCK REPLACED.'.
**13.11.1989** Service defect: 'UN - EXHAUST - LONG EXHAUST CONNECTOR REPLACED.'.
**07.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - IND RELEASE VALVE,IND BRAKE VALVE,DISTRIBUTING VALVE REPLACED A/C IND BRAKE SLOW RELEASING.'.
**22.06.1990** Service defect: 'UN - ENGINE LINER - NO 3 CYLINDER LINER CHANGED.'.
**11.07.1990** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1,L4,R3 WICKS REPLACED.'.
**11.07.1990** Service defect: 'B - 5'.
**21.08.1990** Service defect: 'UN - EXHAUST - EXHAUST JOINT TO TURBO REPLACED.SHORT EXHAUST CONNECTOR REPLACED.'.
**19.09.1990** Service defect: 'SW - FUEL SYSTEM - FUEL TAG TESTS COMPLETED.'.
**13.12.1990** Service defect: 'UN - GENERAL - HAND BASIN REPAIRED'.
**10.01.1991** Service defect: 'TS - BLOCKED FILTERS - FUEL FILTERS CHANGED'.
**08.02.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - DIRTY WICKS - L1,L3,R2,R3,R4,&R6 WICKS CHANGED.'.
**08.02.1991** Service defect: 'A - EXHAUST - ALL EXHAUST BOLTS TIGHTENED. TURBO BOLTS TIGHTENED.'.
**12.07.1991** Service defect: 'SW - ENGINE CYLINDER HEADS - NO 3 HEAD CHANGED, A/C COLD WATER LEAK.'.
**12.07.1991** Service defect: 'SW - ENGINE LINER - NO 3 LINER CHANGED, A/C COLD WATER LEAK.'.
**12.07.1991** Service defect: 'SW - GENERAL - STEP MODS COMPLETED.'.
**25.07.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 'B'END BOGIE, 6 WICKS REPLACED.'.
**25.07.1991** Service defect: 'C - INJECTORS NOT CHANGED ON 'C'SERVICE.25/7.'A'END'.
**25.07.1991** Service defect: 'C - BOGIE REQ'S 4 NEW WICKS.25/7.'.
**18.02.1992** Service defect: 'A - ENGINE - 1.3/8 PIPE BLOCK TO HEAT EXCHANGER.'.
**18.02.1992** Service defect: 'A - EXHAUST - EXHAUST STACK ANDEXTENTION.'.
**18.02.1992** Service defect: 'A - GENERAL - 2 R/H SIDE MIRRORS.1 R/S DOOR HANDLE.1L/H,1R/H WIPER MOTORS.1 SPRING FROM HANDBRAKE LEVER.'.
**15.07.1992** Service defect: 'D - AUXILLARY MACHINES - ELECTRIC FUEL PUMP MOTOR REPLACED A/C U/S.'.
**15.07.1992** Service defect: 'D - SLIP RINGS ON EDDY CURRENT CLUTCH TO BE OBSERVED'.
**15.07.1992** Service defect: 'D - A/C GROOVED.15/7/92.'.
**03.12.1992** Service defect: 'UN - GENERAL - NEW SEATS FITTED.'.
**03.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORN MODS COMPLETED.'.
**03.12.1992** Service defect: 'UN - VIGILANCE - ELECTRIC VIGILANCE FITTED.'.
**21.01.1993** Service defect: 'SW - VIGILANCE - REPAIRED EARTH ON CONTROL.VIGILANCE NOW OK.'.
**11.03.1993** Service defect: 'A - ENGINE WATER LEAK - NO 3 LINER REPLACED, A/C WATER LEAK.'.
**11.03.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDS CLEARED.'.
**10.06.1993** Service defect: 'C - BOGIE - BOGIE CHANGE COMPLETED.'.
**10.06.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1,R3,R5,R6,& L4 WICKS CHANGED,A/C DIRTY.'.
**10.06.1993** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - REPAIRS TO RESISTOR + WIRING ABOVE HEADLIGHT COMPLETED.'.
**10.06.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - LIGHTING CIRCUIT BREAKER REPLACED.'.
**10.06.1993** Service defect: 'C - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED,A/C LEAKS.'.
**10.06.1993** Service defect: 'C - LUBRICATING SYSTEM - OIL MARMON COUPLING RUBBERS REPLACED.'.
**12.08.1993** Service defect: 'A - ELECTRICAL MISC. HEADLIGHT - ONE HEADLIGHT RESISTOR CHANGED.'.
**12.08.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - REAR TERMINAL BOARD

REPLACED.'.
**12.08.1993** Service defect: 'SW - ENGINE CYLINDER HEADS - CYL HEAD REPLACED, A/C LEAKING.'.
**12.08.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - PACKAGE REPLACED, COUPLER INSTALLED. COUPLER PLATE INSTALLED'.
**12.08.1993** Service defect: 'A - EDDY CURRENT CLUTCH SLIPRINGS TO MONITOR, A/C'.
**12.08.1993** Service defect: 'A - GROOVED.'.
**01.09.1993** Service defect: 'UN - EXHAUST - EXHAUST REPAIRS COMPLETED.'.
**01.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**01.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - STEP LIGHTS REPAIRED.'.
**01.09.1993** Service defect: 'UN - VIGILANCE - VIGILANCE CHECKED OK.'.
**14.10.1993** Service defect: 'TW - SHORT EXHAUST BELLOW CRACKED.13/10/93.'.
**29.10.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - CONTACTOR CHANGED, A/C BURNT OUT IN FAN CONTROL BOX.'.
**01.11.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - FAN CONTROL BOX FOUND WIRED WRONG WAY - REPAIRED.'.
**01.11.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAN SWITCH BROKEN - REPAIRED.'.
**01.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HOT ENGINE - HOT ENGINE ALARM COMING IN AT 160DEGS, REPAIRED'.
**19.11.1993** Service defect: 'UN - FUEL SYSTEM - FUEL HOSE REPLACED, TESTED OK.'.
**19.01.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - EDDY CURRENT CLUTCH TO MONITOR, A/C GROOVED.'.
**19.01.1994** Service defect: 'A - LHS RADIATOR LEAKING. FAST COUPLER TO GREASE A/C'.
**19.01.1994** Service defect: 'A - NO GREASE AT TIME OF SERVICE.19/1/94.'.
**10.03.1994** Service defect: 'UN - TRACTION MOTOR - T/MOTOR BLOWER BELTS REPLACED.'.
**18.03.1994** Service defect: 'TW - ENGINE - AGAIN. TO BE MONITORED.'.
**18.03.1994** Service defect: 'TW - OVERHEATING - LOCO O/HEATING. THERMOSTAT MANUALLY PUSHED IN AND CONTACTS OPERATED. SWITCHED BACK TO AUTO TO SEE IF FAULT HAPPENS'.
**08.04.1994** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L1 AND L3 WICKS AND OIL CHANGED.'.
**08.04.1994** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - AUTO COUPLER ROD 'A'END STRAIGHTENED.'.
**08.04.1994** Service defect: 'C - SERVICE INCOMPLETE, TO BE DONE ON RETURN FROM PORT'.
**08.04.1994** Service defect: 'C - AUGUSTA, A/C AIR CON TO FIT.8/4. NO'S 3 AND 5'.
**08.04.1994** Service defect: 'C - LINERS TO MONITOR, A/C WATER LEAKS. 2 BOLTS MISSIN'.
**08.04.1994** Service defect: 'C - G ON TURBO EXHAUST INLET RING. GEN BELT GUARD REPS'.
**20.05.1994** Service defect: 'SW - GENERAL - AIR CONDITIONING UNIT INSTALLED'.
**16.06.1994** Service defect: 'SW - ELECT. MISC. - GAUGES & INSTRUMENTS - FUEL PRESSURE GAUGE REPLACED.'.
**16.06.1994** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER REPLACED. AIR FEED TO TURBO MOD COMPLETED.'.
**16.06.1994** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - DISTRIBUTING VALVE REPLACED.'.
**16.06.1994** Service defect: 'SW - TRACTION MOTOR - NO 1 AND 2 T/M COVERS REPLACED.'.
**25.06.1994** Service defect: 'A - EXHAUST - EXHAUST LEAKS - CHECKED OUT OK.'.
**25.06.1994** Service defect: 'A - GENERAL - CAB - NOSE DOOR HANDLE REPAIRED.'.
**25.06.1994** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEED RECORDER TRANSMITTER BOOT COVER REPLACED.'.
**25.06.1994** Service defect: 'A - UNABLE TO SET THERMOSTAT FOR AUTO FAN, NO THERMOST'.
**25.06.1994** Service defect: 'A - AT. 25/6.'.

**842**

Details: locomotive '842 Y' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $176650
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 24.08.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LEAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 02.11.1995 | | |
| Last Lift: | 03.08.1982 | | |
| SW Service Mileage: | 632622 KM | SW Service Date: | 02.11.1995 |
| A Service Mileage: | 584275 KM | A Service Date: | 06.05.1994 |
| B Service Mileage: | 553450 KM | B Service Date: | 29.11.1993 |
| C Service Mileage: | 611949 KM | C Service Date: | 21.10.1994 |
| E Service Mileage: | 399498 KM | A Service Date: | 03.05.1991 |
| WT Service Mileage: | 606301 KM | WT Service Date: | 22.08.1994 |
| US Service Mileage: | 623744 KM | A Service Date: | 02.03.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**18.01.1991** Service defect: 'A - ALUMINIUM WINDOWS TO BE FITTED TO CAB.'.
**12.03.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - SELECTOR VALVES REPLACED ON SAYDAIR SEATS.'.
**12.03.1991** Service defect: 'SW - ALUMINIUM WINDOWS TO BE FITTED TO CAB.'.
**03.05.1991** Service defect: 'E - NO 4 CYLINDER LINER CRACKED LEAKING WATER'.
**02.08.1991** Service defect: 'FA - ENGINE CYLINDER HEADS - AFTER COOLER REMOVED,CLEANED & REPLACED'.

**02.08.1991** Service defect: 'FA - ENGINE CYLINDER HEADS - NO. 1 & 3 PISTON HEAD REMOVED & CLEANED.'.
**02.08.1991** Service defect: 'FA - ENGINE CYLINDER HEADS - PISTON CROWN BROKEN NO 2.PISTON LINER & HEAD REPLACED.'.
**02.08.1991** Service defect: 'FA - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED NEW SERIAL NO 106836 AIL LINE FEED TO TURBO OIL SEAL FITTED.'.
**02.08.1991** Service defect: 'FA - OTHER BODY REPAIRS - ALUMINIUM WINDOWS FITTED.DERUSTED AROUND FRAME.'.
**05.12.1991** Service defect: 'UN - ENGINE LINER - NO 5 LINER CHANGED ACC TOP CRACKED.NEW PISTON RINGS FITTED.'.
**28.01.1992** Service defect: 'SW - BOGIE - BOTH BOGIES REPLACED DUE TO WHEEL CONDITION'.
**21.05.1992** Service defect: 'TW - FUEL SYSTEM - FUEL PRESSURE GAUGE REPLACED - STICKY POINTER.'.
**21.05.1992** Service defect: 'TW - MAIN GENERATOR - COPPER DRAG REMOVED. THREADING PRESENT.'.
**21.05.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - SEATS RATTELING - TIGHTENED'.
**24.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SRING REPLACED UNLOADER VALVE.'.
**11.08.1992** Service defect: 'SW - FUEL SYSTEM - GASKET SECONDARY FUEL REPLACED.'.
**03.12.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NEW WHEELS FITTED ACC THIN & DEEP PROFILES.'.
**06.05.1993** Service defect: 'C - EARTH FAULT MISCELLANEOUS - EARTH FAULT REMOVED FROM COMPRESSOR GOVERNOR'.
**06.05.1993** Service defect: 'C - EXHAUST - EXHAUST LEAK #3 HEAD TO MANIFOLD REPAIRED'.
**06.05.1993** Service defect: 'C - FUEL SYSTEM - FUEL PRESSURE RAISED FROM 14LB TO 27LB'.
**06.05.1993** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MAGNET VALVE STICKY - REPLACED'.
**06.05.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - SEVEN BRUSHES CHANGED'.
**18.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR COMPRESSOR GOVERNOR REQUIRED ADJUSTING AND LUBRICATION'.
**31.05.1993** Service defect: 'TW - DOORS - ELECTRICAL CABINET DOOR SEALS SOME MISSING OTHERS ARE COMING OFF - RENEWED AND REGLUED.'.
**31.05.1993** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REAR RHS BLOWN - CHANGED.'.
**31.05.1993** Service defect: 'TW - FUEL SYSTEM PUMP - FUEL PUMP HAS SQUEALING NOISE - REPLACED.'.
**31.05.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - SEATS REPLACED'.
**23.06.1993** Service defect: 'TW - DOORS - DOOR STOPPER MISSING - STOPPER INSTALLED. ELECTRICAL CABINET DOOR SEALS MISSING - RENEWED.'.
**23.06.1993** Service defect: 'TW - FLOORS - HOLES IN FLOOR AROUND 'B' SIDE SEAT - FILLED IN WITH SILASTIC.'.
**23.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - DOOR WINDOW WIPER 'B'SIDE RESECURED.'.
**23.06.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT RHS BRAKE CYLINDER LOOSE - TIGHTENED.'.
**23.06.1993** Service defect: 'TW - OTHER BODY REPAIRS - ARM RESTS LOOSE - TIGHTENED.'.
**10.08.1993** Service defect: 'TW - ADJUST BRAKES - ONE BRAKE BLOCK CHANGED.'.
**10.08.1993** Service defect: 'TW - COOLING SYSTEM - SIGHT GLASS BROKEN AND SAMPLE TAP LEAKING - REPLACED.'.
**13.09.1993** Service defect: 'TW - AIR BRAKE SYSTEM COMPLETE - AIR LEAKS STOPPED IN PEDESTAL.'.
**13.09.1993** Service defect: 'TW - FUEL SYSTEM - FUEL LEAK TO GUAGE STOPPED.'.
**13.09.1993** Service defect: 'TW - OTHER BODY REPAIRS - TOILET UNBLOCKED.'.
**22.09.1993** Service defect: 'A - AIR RESERVOIR MAINTENANCE - PIPING FITTED TO MAIN RESERVOIR DRAIN COCKS TO ALLOW SAFER DRAINAGE.'.
**22.09.1993** Service defect: 'A - BATTERY MAINTENANCE - BOTTOM RHS BATTERY BOX FLOOR HAD TEMPORARY PLATE PUT IN TO STOP BATTERIES FROM FALLING THROUGH.'.
**22.09.1993** Service defect: 'A - BOGIE FRAME - NOSE SUSPENSIONS 2 & 4 REPAIRED.'.
**29.09.1993** Service defect: 'TW - OTHER BODY REPAIRS - MIRROR REPLACED.'.
**29.11.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - MANUAL POWER RHEOSTAT RENEWED AND 1 AMP FUSE REPLACED.'.
**09.12.1993** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - NEW AXEL DUST SEAL FITTED'.
**06.05.1994** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER CHANGED OUT - IMPELLER BLADES HAD COME OFF.'.
**13.07.1994** Service defect: 'TW - SHORT EXHAUST BELLOWS TO REPLACE'.
**28.07.1994** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - LAMP HOLDER IN CUBICLE REPLACED.'.
**22.08.1994** Service defect: 'FA - BATTERY MAINTENANCE - TWO BATTERIES REPLACED DRIVERS SIDE REAR TOP AND BOTTOM.'.
**22.08.1994** Service defect: 'FA - ELECTRICAL MISC. GROUND RELAY - FLASH OVER BOLT IN MAIN GENERATOR SHORTED TO BRUSH HOLDER - REPAIRED.'.
**01.09.1994** Service defect: 'UN - PRESSURISING FAN - TRACTION MOTOR BLOWER FAN A END REPAIRED - NEW BEARINGS SHAFT AND LOCKING SLEEVES.'.
**29.09.1994** Service defect: 'TW - EXHAUST - EXHAUST LEAKS REPAIRED.'.
**21.10.1994** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - FUSE REPLACED IN MANUAL POWER CONTROL.'.
**21.10.1994** Service defect: 'C - ENGINE CYLINDER HEADS - CYLINDER NO.3 HEAD REPLACED.'.
**21.10.1994** Service defect: 'C - ENGINE LINER - CYLINDER NO.3 LINER REPLACED.'.
**21.10.1994** Service defect: 'C - ENGINE PISTON - CYLINDER NO.3 PISTON REPLACED.'.
**21.10.1994** Service defect: 'C - EXHAUST - EXHAUST REPAIRED MANIFOLD REMOVED AND GASKETS REPLACED.'.
**21.10.1994** Service defect: 'C - FUEL SYSTEM PUMP - FUEL

PUMP NO.6 CHANGED.'.
**21.10.1994** Service defect: 'C - PILOT LIGHTS - LAMP HOLDERS REPLACED B END ENGINE ROOM.'.
**23.01.1995** Service defect: 'TW - NIL'.
**99.99.9999** Service defect: 'SW - NIL'.

**843**

Details: locomotive '843 A' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $176650
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 18.09.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 16.11.1983 | | |
| SW Service Mileage: | 1742395 KM | SW Service Date: | 02.02.1996 |
| A Service Mileage: | 1752116 KM | A Service Date: | 31.10.1996 |
| B Service Mileage: | 1747178 KM | B Service Date: | 01.05.1996 |
| C Service Mileage: | 1536906 KM | C Service Date: | 11.10.1994 |
| D Service Mileage: | 1482241 KM | D Service Date: | 14.05.1993 |
| E Service Mileage: | 1326285 KM | A Service Date: | 20.04.1989 |
| US Service Mileage: | 1771624 KM | A Service Date: | 24.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**07.07.1989** Service defect: 'SW - ENGINE - ENGINE UPGRADED TO 1000 HORSEPOWER'.
**07.07.1989** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TEMPORARY REPAIRS TO TURBO BELLOWS'.
**07.07.1989** Service defect: 'SW - FUEL SYSTEM INJECTORS - 157 DEGREES INJECTORS FITTED'.
**07.07.1989** Service defect: 'SW - FUEL SYSTEM PUMP - 16MM FUEL PUMPS FITTED'.
**07.07.1989** Service defect: 'SW - GENERAL - ALL MODS & ALTERATIONS COMPLETED * AIR CON MOD RS4133 ELECT VIGLIANCE W132AD'.
**09.08.1989** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED,V RING PAINTED.P500K.'.
**09.08.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 1&2 CLEANED.2 BRUSHES REPLACED.'.
**25.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - AIR SUPPLY TO HOOTERS REROUTED.'.
**09.11.1989** Service defect: 'A - ELECTRICAL MISC. TRANSITION - TRANSITION SET UP.'.
**25.04.1990** Service defect: 'B - TMS 2345&6 TO MONITOR FOR SLIGHT COPPER DRAG.RN 25'.
**25.04.1990** Service defect: 'B - /4.'.
**19.09.1990** Service defect: 'UN - TRACTION MOTOR - NO5 T.M. CHANGED A/C DAMAGED COMM.(IN 263 OUT 138)'.
**07.12.1990** Service defect: 'TS - WHEELSLIP - CHECKED IN DEPOT FOR WHEEL SLIP,NO FAULT FOUND.'.
**11.11.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 7 NEW WICKS REPLACED.'.
**11.11.1991** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - LOW PRESSURE SWITCH IN VIG REPLACED,A/C LEAKING.'.
**11.11.1991** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMP PRESSURE DISCHARGE PIPE REPAIRED,A/C LEAKING.'.
**11.11.1991** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END DRAFT GEAR & PACKAGE REPLACED.'.
**03.02.1992** Service defect: 'TS - TRACTION MOTOR - NO 4 T/MOTOR REPLACED,A/C INTERPOLES EARTH.IN-269947.OUT- 13082.'.
**06.02.1992** Service defect: 'B - SUSPENSION BEARING CLEARANCES TO MONITOR AT NEXT'.
**06.02.1992** Service defect: 'B - SERVICE.6/2/92.'.
**07.04.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - FINGER CONTACT ON G.F REPAIRED,A/C LOOSE SPRING TENSION CAUSING GR'S.'.
**28.04.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOADMETER REPLACED. EARTH ON GAUGE LIGHTS REPAIRED. EARTH FAULT IN CONTROL REPAIRED(BCP LIGHT & CAB HEATERS)'.
**28.04.1992** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - NO. 1 & 6 T/MOTOR NOSE SUPPORT WEAR PLATES CHANGED.'.
**28.04.1992** Service defect: 'UN - WHEELSLIP - 2 RESISTORS REPLACED IN WARNING INDICATOR LIGHT CIRCUIT LIGHT CIRCUIT A/C BURNT OUT.'.
**04.05.1992** Service defect: 'UN - GENERAL - L.H.S.SEAT REPLACED.OK.'.
**13.05.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - HOT ENGINE LIGHT LUG REPAIRED.'.
**15.05.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - AUXILLARY CONTACT ON P2 REPAIRED,A/C OPEN & NO FIRST TRANSITION.'.
**02.07.1992** Service defect: 'UN - RADIO REPAIR - RADIO TRANSFORMER REPAIRED.'.
**29.09.1992** Service defect: 'C - BATTERY MAINTENANCE - RHS LOWER BATTERY CABLE INSULATED, A/C RUBBING.'.
**29.09.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - NO R2 & L2 + R3 & L3 WICKS & WICK CARRIERS REPLACED.'.
**29.09.1992** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - REPAIRED CRANKCASE EXHAUSTER WIRING. REPAIRED RUBBED WIRE ONFUEL PUMP.'.
**29.09.1992** Service defect: 'C - TRACTION MOTOR - NO 3 T/M CABLES TIED UP, A/C RUBBING.'.
**16.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CHECKED ALL ELECTRICAL CABINET EQUIPMENT, A/C BURNING SMELLSCHECKED M/GEN & AUX GEN + CRANKCASE EXH, NO SIGNS OF'.
**16.10.1992** Service defect: 'UN - EXHAUST - ALL EXHAUST

BOLTS TIGHTENED.'.
**24.11.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ELECTRICAL CABINET SEALS REPLACED.'.
**24.11.1992** Service defect: 'UN - EXHAUST - EXHAUST JOINTS CHECKED, A/C LEAKS.'.
**24.11.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - 2 INJECTOR TUBES REPLACED,A/C LEAKING.'.
**06.01.1993** Service defect: 'TS - ENGINE CYLINDER HEADS - NO 6 CYLINDER HEAD REPLACED, A/C BENT VALVE.'.
**06.01.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - PIECE OF VALVE FOUND IN TURBO DUCT,TURBO CHECKED OK. LOCO STARTED UP & TESTED OK.'.
**21.01.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WIRE RUBBING THROUGH ON EDDY CURRENT CLUTCH,REPAIRED OK.'.
**11.03.1993** Service defect: 'TS - BOGIE - BOGIE CHANGE COMPLETED.'.
**11.03.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED.'.
**14.05.1993** Service defect: 'D - ELECTRICAL MISCELLANEOUS - ARC CHUTES REPLACED.'.
**14.05.1993** Service defect: 'D - ENGINE - CRANKCASE EXHAUSTER REPAIRED.'.
**14.05.1993** Service defect: 'D - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO FILTER DUCT MODIFIED,A/C TOO CLOSE TO HATCH.'.
**14.05.1993** Service defect: 'D - EXHAUST - EXTENSION STACK & LONG STACK REPAIRED.'.
**14.05.1993** Service defect: 'D - FUEL SYSTEM - FUEL SIGHT GLASS REPLACED.'.
**14.05.1993** Service defect: 'D - MAIN GENERATOR - MAIN GEN CHANGED,A/C ARMATURE MEGGERED TO FRAME=0. M/GEN EX 839.'.
**14.05.1993** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE CHANGED. DISTRIBUTING VALVE FITTED,A/C MISSING.'.
**14.05.1993** Service defect: 'D - TRACTION MOTOR - NO 1 T/MOTOR CHANGED,A/C FIELD DOWN.'.
**14.05.1993** Service defect: 'D - TRACTION MOTOR EARTH - NO 5 T/MOTOR CHANGED,A/C EARTH ON FIELD & ARMATURE.'.
**14.05.1993** Service defect: 'D - VIGILANCE - VIG CONTROL WIRING COMPLETED,VIG OPERATION TESTED OK.'.
**28.05.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R1 WICK CHANGED A/C DIRTY - NEW OIL ADDED.'.
**28.05.1993** Service defect: 'A - FUEL SYSTEM INJECTORS - ALL SIX INJECTORS CHANGED.'.
**28.05.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - 5 SAND NOZZLES REPLACED.'.
**02.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - 'A'END TRACTION MOTOR BLOWER FAN REPAIRED AND REPLACED.'.
**02.06.1993** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTORS CHECKED FOR SUBSEQUENT DAMAGE. NO DAMAGE FOUND. T/M'S BLOWN OUT.'.
**16.07.1993** Service defect: 'UN - BLOCKED FILTERS - IN LINE STRAINER CLEANED,A/C BLOCKED.'.
**16.07.1993** Service defect: 'UN - EXHAUST - EXHAUST BOLTS TIGHTENED.'.
**16.07.1993** Service defect: 'UN - FUEL FILTERS - FUEL FILTER (SMALL) REPLACED.'.
**16.07.1993** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP REPLACED,CHECKED OK.'.
**17.08.1993** Service defect: 'C - AIR CONDITIONING - AIR CON. DRAIN PIPE UNBLOCKED A/C WATER LEAKING INTO CAB.'.
**17.08.1993** Service defect: 'C - BATTERY MAINTENANCE - LOCO HAD FLAT BATTERIES. BATTERIES STAB TESTED OK. BATTERY CHARGE VOLTS = 71.9V. BATTERY AMPS 10.'.
**17.08.1993** Service defect: 'C - CONTACTOR EP VALVES - EP VALVE FOR FRONT SANDERS CHANGED.'.
**17.08.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - G.F PROBLEM CAUSED BY LOOSE WIRING ON P.C.S.-WIRES TIGHTENEDTHE REST OF G.F CIRCUIT LOOKED OK.'.
**17.08.1993** Service defect: 'C - FUEL SYSTEM - HIGH PRESSURE FUEL LINES AND BANJO FITTINGS REPAIRED A/C LEAKING.'.
**27.08.1993** Service defect: 'UN - BOGIE - LEFT 2 & 3 BRAKE HANGER & SLACK ADJUSTER REPLACED. DIRECTIONTESTED OK.'.
**27.08.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY OPERATION CHANGED, CHECKED OK.'.
**27.08.1993** Service defect: 'UN - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C ARMATURE U/S.'.
**21.09.1993** Service defect: 'UN - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C INTERPOLE DOWN TO EARTH. T/M IN- 267774 - T/M OUT- 267773.'.
**06.10.1993** Service defect: 'UN - AIR CONDITIONING - CONDENSER FAN REPLACED IN AIR CON. AND AIR CON. RE-GASSED.'.
**06.10.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER REPLACED AND GAUGE LIGHT WIRING ALTERED TO MATCH.'.
**06.10.1993** Service defect: 'UN - EXHAUST - EXHAUST JOINTS REPAIRED A/C SUCKING AIR THROUGH T/M BLOWER.'.
**06.10.1993** Service defect: 'UN - GENERAL - ENGINE ROOM WASHED.'.
**06.10.1993** Service defect: 'UN - MAIN GENERATOR - MAIN GEN. BLOWN OUT A/C EXHAUST CARBON.'.
**06.10.1993** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTORS BLOWN OUT A/C EXHAUST CARBON.'.
**13.10.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NO.5 T/M CHANGED A/C EARTH.'.
**15.10.1993** Service defect: 'UN - TRACTION MOTOR - T/MOTOR CAP CHANGE COMPLETED.'.
**11.11.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,2,3 & R5 WICKS CHANGED. ALL OILS EXCEPT R2 CHANGED.'.
**11.11.1993** Service defect: 'A - ENGINE WATER LEAK - PIPE FITTING UNDER TURBO REPLACED, A/C WATER LEAK.'.
**11.11.1993** Service defect: 'A - EXHAUST - SEVERAL EXHAUST BOLTS REPLACED.'.
**13.11.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 5 T/MOTOR REPLACED, A/C GR'S. T/M IN-13059.T/M OUT-267759DIRECTION TESTED OK.'.
**13.11.1993** Service defect: 'UN - TRACTION MOTOR -

'V'RING IN NO 3 T/MOTOR PAINTED.'.

**09.01.1994** Service defect: 'UN - BATTERY MAINTENANCE - TOP 2 DRIVERS SIDE BATTERIES REPLACED, A/C DEAD CELLS.'.

**24.01.1994** Service defect: 'UN - ENGINE CRANKSHAFT - BIG ENDS INSPECTED AND ALL SPLIT PINS INTACT.'.

**24.01.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR PUMPING SLOWLY. COMP.UNLOADERS REMOVED AND CLEANED. ONE CUP INSTALLED IN ONE UNLOADER. REPAIRED. OK.'.

**24.01.1994** Service defect: 'UN - OTHER BODY REPAIRS - ANTI-SLIP FITTED TO ALL STEPS.'.

**26.01.1994** Service defect: 'UN - FUEL SYSTEM - FUEL FILTERS REPLACED, A/C IN-LINE STRAINER AT FUEL PUMP FOUND BLOCKED. PRESSURE ADJUSTED.'.

**03.02.1994** Service defect: 'B - ENGINE - SMALL EXHAUST JOINT TO TURBO CHANGED, A/C SPLIT.'.

**03.02.1994** Service defect: 'B - ENGINE WATER LEAK - DRESSER COUPLING BELOW HEAT EXCHANGER TIGHTENED, A/C WATER LEAK.'.

**03.02.1994** Service defect: 'B - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C ARMATURE TO EARTH.'.

**16.02.1994** Service defect: 'UN - EXHAUST - EXHAUST JOINTS TIGHTENED.'.

**16.02.1994** Service defect: 'UN - FUEL FILTERS - FUEL STRAINER CLEANED, FUEL FILTERS REPLACED.'.

**16.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SLACK ADJUSTER AND BRAKE HANGER REPLACED.'.

**12.04.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 2 HEAD STUD NUT REPLACED.'.

**12.04.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - 2 BOLTS REPLACED ON TURBO.'.

**12.04.1994** Service defect: 'UN - EXHAUST - ALL EXHAUST BOLTS TIGHTENED.'.

**12.04.1994** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP STRAINER CLEANED.'.

**15.04.1994** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R2,R3,L3 AND L4 WICKS AND OIL CHANGED.'.

**15.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L3 SAND HOSE AND BRACKET REPLACED.'.

**15.04.1994** Service defect: 'A - OTHER BODY REPAIRS - RHS WALL - RUST CUT OUT AND HOLE PATCHED.'.

**18.05.1994** Service defect: 'TS - BOGIE - FLATS 'B'BOGIE - CHECK OK.'.

**18.05.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRING LOOM REPAIRED, A/C BURNT CABLING - NO 8 TRAIN LINE. TRAINLINE AND SEQUENCE CHECK OK. POWER OK.'.

**20.05.1994** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - RHS GEN FIELD SWITCH REPLACED, A/C FAULTY. POWER CHECKED OK.'.

**20.05.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 17 AND 24 TRAINLINES CHECKED. GOVERNOR PLUG REPAIRED, SPEEDSCHECKED OK. LOCO JUMPER CABLE CHECKED OK.'.

**07.06.1994** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED IN DEPOT, BATTERY CHARGING OK.'.

**07.06.1994** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP REPLACED.'.

**08.06.1994** Service defect: 'SW - BATTERY MAINTENANCE - 2 BATTERIES REPLACED.'.

**15.06.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - LOCO MEGGERED 50OHMS WITH NO 5 ARM ISOLATED - NO 5 ARM MEGGERED 50OHMS, NO 5 ARM WOULD NOT BREAK DOWN WITH 2.5 KV'.

**21.06.1994** Service defect: 'TS - NO FAULT FOUND - GROUND RELAYS - TRIAL RUN - NO GR'S ON TRIAL RUN. LEFT AS CONTROL LOCO.'.

**99.99.9999** Service defect: 'F - F SCHEDULED SERVICE'.

### 844

Details: locomotive '844 J' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $176650
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 25.10.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 08.04.1995 | | |
| Last Lift: | 07.02.1985 | | |
| SW Service Mileage: | 1483959 KM | SW Service Date: | 28.06.1994 |
| A Service Mileage: | 1518233 KM | A Service Date: | 30.03.1995 |
| B Service Mileage: | 1477464 KM | B Service Date: | 31.03.1994 |
| C Service Mileage: | 1508301 KM | C Service Date: | 22.12.1994 |
| D Service Mileage: | 1267308 KM | D Service Date: | 18.08.1988 |
| E Service Mileage: | 1411116 KM | A Service Date: | 15.09.1992 |
| WT Service Mileage: | 1434395 KM | WT Service Date: | 10.02.1993 |
| US Service Mileage: | 1520062 KM | A Service Date: | 08.04.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**09.07.1989** Service defect: 'UN - WHEELSLIP - LOOSE CONNECTIONS AT WHEELSLIP RESISTORS'.

**04.08.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSS OF POWER.LOCO ISOLATED FROM OTHER UNIT&NFF.'.

**31.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R3,R4,R5,R6,L5 WICKS RENEWED.'.

**05.09.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO2 TM V/RING,INSULATORS CLEANED A/C FLASHED.P-30K.'.

**07.09.1989** Service defect: 'UN - GENERAL - LHS SEAT REPLACED.'.

**05.12.1989** Service defect: 'UN - GENERAL - LHS WIND SCREEN REPLACED.'.

**07.02.1990** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED A/V AIR INTAKE SIDE DESTROYED.IN O66592-N4XB.'.

**21.02.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**02.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R5 WICK REPLACED.'.
**10.05.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEADLIGHT CIRCUIT BREAKER REPLACED.'.
**21.06.1990** Service defect: 'TS - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.GOVERNOR OIL TOPPED UP,ENGINE FIRING CORRECTLY.'.
**25.06.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION SET UP.'.
**18.04.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 9 WICKS CHANGED.'.
**18.04.1991** Service defect: 'A - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED.'.
**02.01.1992** Service defect: 'TS - GENERAL ACCIDENT - COLLISION REPAIRS COMPLETED.'.
**27.02.1992** Service defect: 'A - BOGIE - BOGIE COMPLETED.'.
**15.09.1992** Service defect: 'E - ENGINE - TIMING ADJUSTED.'.
**15.09.1992** Service defect: 'E - MECHANICAL MAINTENANCE - AIR BRAKE - PILOT AIR VALVE REPLACED,BRAKE TEST COMPLETED.'.
**15.09.1992** Service defect: 'E - VIGILANCE - VIG CONTROL TESTED OK.'.
**22.10.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED.'.
**22.12.1992** Service defect: 'SW - NO FAULT FOUND - HORN TESTED OK.'.
**22.12.1992** Service defect: 'SW - VIGILANCE - PILOT AIR VALVE CLEANED,CHOKE ADJUSTED.VIGILANCE TESTED OK.'.
**27.01.1993** Service defect: 'TS - TRACTION MOTOR - NO.6 T/M CHANGED A/C DOWN TO EARTH.'.
**08.02.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1 & L2 WICKS & OIL CHANGED.'.
**08.02.1993** Service defect: 'A - CONTACTOR EP VALVES - RIGHT SIDE SANDER MAGNET VALVE IN NOSE REPLACED, A/C BLOWING'.
**08.02.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R1 SANDER REPAIRED.'.
**26.02.1993** Service defect: 'TS - .'.
**01.03.1993** Service defect: 'TS - GENERAL - LOCO SENT ON TRIAL RUN, LOCO OK.'.
**29.03.1993** Service defect: 'TS - ENGINE CYLINDER HEADS - ALL CYLINDER HEADS REPLACED, A/C FUEL & OIL LEAK FROM EXHAUST UNTO ROOF.'.
**29.03.1993** Service defect: 'TS - GENERAL - CAB SEAT REPAIRS COMPLETED. FLOW METER BRACKET REPAIRED.'.
**29.03.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - INDEP RELEASE PIPE REPLACED 'B'END, A/C RUSTED OUT.'.
**03.05.1993** Service defect: 'UN - ENGINE - COMPLETE HEAD CHANGE,COMPLETE RING CHANGE,A/C SEVERE OIL LEAKS.'.
**03.05.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED.'.
**03.05.1993** Service defect: 'UN - TRACTION MOTOR EARTH - NO 6 T/MOTOR REPLACED, A/C EARTH FAULT. T/M IN- 269966. T/M OUT- 274862.'.
**05.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - AIR LEAK ON COMPRESSOR PIPE REPAIRED.'.
**05.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - RHS ROTARY REPAIRED.'.
**16.06.1993** Service defect: 'SW - EXHAUST - EXHAUST JOINTS - LONG CONCERTINA TO TURBO CHANGED,ALL EXHAUST BOLTS TIGHTENED.'.
**16.06.1993** Service defect: 'SW - GENERAL - ALL DOOR SEALS CHECKED OK,A/C CAB FUMES.'.
**02.08.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R1,R4,R5,L4 & L5 WICKS CHANGED.'.
**02.08.1993** Service defect: 'A - ENGINE AIR FILTERS - INTAKE FILTER HOUSING REWELDED.'.
**21.10.1993** Service defect: 'C - BOGIE - R3 SLACK ADJUSTER REPAIRED.'.
**21.10.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - WICKS L1,L2 L4,R2,R4 & R5 CHANGED.'.
**21.10.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET CASING WELDED.'.
**21.10.1993** Service defect: 'C - FUEL PUMP MOTOR - FUEL PUMP MOTOR REPLACED, A/C EARTH FAULT.'.
**21.10.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDER MAGNET VALVE 'B'END REPLACED.'.
**21.10.1993** Service defect: 'C - R5 GEAR SEAL U/S.21/10.'.
**17.12.1993** Service defect: 'UN - FUEL SYSTEM - FUEL PRESSURE ADJUSTED TO 35-40LBS, A/C SET TOO HIGH CAUSINGGAUGE TO FLUCTUATE.'.
**17.12.1993** Service defect: 'UN - TRACTION MOTOR - NO.4 T/M CLEANED INTERALLY AND EXTERNALLY. INSPECTED AND CHECKED OK. OIL SUSPECTED COMING FROM OIL SUMP DRAIN.'.
**12.01.1994** Service defect: 'A - ENGINE - ALL CONROD BOLT SPLIT PINS CHECKED. NO.5 SPLIT PIN REPLACEDA/C MISSING.'.
**12.01.1994** Service defect: 'A - FUEL SYSTEM PUMP - NO.6 INJECTOR FUEL PUMP CHANGED A/C SIEZED.'.
**31.03.1994** Service defect: 'B - FUEL FILTERS - SHORT FUEL FILTER CHANGED.'.
**31.03.1994** Service defect: 'B - GENERAL - RHS SEAT BASE CUSHION REPAIRED.'.
**31.03.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDING MAGNET VALVE IN NOSE REPLACED.'.
**31.03.1994** Service defect: 'B - 'A' AND 'B' PACKAGES TO MONITOR.31/3.'.
**27.04.1994** Service defect: 'TS - TRACTION MOTOR - NO 6 T/MOTOR REPLACED, A/C INTERPOLES TO EARTH. T/M IN: 267765. T/M OUT: 269966.'.
**03.05.1994** Service defect: 'TS - GENERAL - 'A'END SAFETY BRACKET REPAIRED. NO 2 GEAR CASE REPLACED, A/CBENT. NO 3 T/M BELLOW REPLACED, A/C TORN.'.
**03.05.1994** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE 'A'END LHS REPAIRED, A/C BENT.'.
**29.05.1994** Service defect: 'SW - BOGIE - PLACED ON S.G. TEMP BOGIES - TO PT AUG.'.
**24.06.1994** Service defect: 'SW - AIR CONDITIONING PANEL - AIR CONDITIONER INSTALLED - COMMISSIONED OK. SENT TO MPC'.
**28.06.1994** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED, LOCO DIRECTION TESTED OK.'.

**28.06.1994** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - L1 SANDER CLEARED, A/C BLOCKED.'.
**01.07.1994** Service defect: 'A - COOLING SYSTEM - WATER DROPPED AND REFILLED AS PER LAB REPORT.'.
**01.07.1994** Service defect: 'A - GENERAL - OBS/SIDE SEAT REPAIRED.'.

**845**

Details: locomotive '845 S' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $176650
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 01.01.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 11.12.1995 | | |
| SW Service Mileage: | 1242100 KM | SW Service Date: | 11.12.1995 |
| A Service Mileage: | 1237484 KM | A Service Date: | 06.10.1995 |
| B Service Mileage: | 1187172 KM | B Service Date: | 19.04.1994 |
| C Service Mileage: | 1206901 KM | C Service Date: | 20.09.1994 |
| D Service Mileage: | 1232508 KM | D Service Date: | 10.07.1995 |
| US Service Mileage: | 1282263 KM | A Service Date: | 16.11.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**01.07.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.OP 42/52,FP32,ALL CYLINDERS FIRING.'.
**18.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LHS FEED VALVE CHANGED.'.
**20.07.1989** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN & TRACTION MOTOR BLOWER BELTS TIGHTENED.'.
**21.08.1989** Service defect: 'SW - OTHER BODY REPAIRS - FLOOR TIMBERS REMOVED FROM BOTH EXTERNAL & INTERNAL DOOR AREAS. STEEL FLOOR IN THOSE AREAS CLEANED OF RUST AND SEALED'.
**21.08.1989** Service defect: 'SW - OTHER BODY REPAIRS - WITH CHROMATE, NEW TIMBERS FITTED AND DOORS REFITTED'.
**21.08.1989** Service defect: 'SW - VIGILANCE - VIGILANCE CHECKED AND REPAIRED AS REQUIRED'.
**17.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - ALL WICKS & OILS CHANGED A/C DIRTY.'.
**07.11.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - LIGHT FLASH ON MAIN GEN CLEANED.P-100K.'.
**06.12.1989** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - BOOKED FOR G/RELAYS.JUMPER CABLE CHANGED.C-200K.'.
**07.12.1989** Service defect: 'UN - EXHAUST - 4,5,6 EXHAUST PIPE TO TURBO JOINTS REPLACED.'.
**10.12.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR 2 G/RELAYS.MAIN GEN,TM'S,REVERSER & CONTACTS CHECKED OK.P-100K.'.
**02.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE VALVE & BRAKE VALVE CHANGED A/C BRAKES NOT RELEASING.'.
**08.02.1990** Service defect: 'TS - TRACTION MOTOR - NO6 TM CHANGED A/C EARTH ON FIELDS.(IN E121 OUT E169).'.
**28.03.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - GF AUX CONTACTS REPLACED.'.
**29.03.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTS BOOKED DROPPING OUT AT 25KMP.AUX CONTACTS ON FIELD SHUNTS CLEANED NO REAL FAULT FOUND.'.
**02.04.1990** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - LOST POWER AFTER 1ST TRANSITION.TDR CONTACTS CLEANED A/C DIRTY.'.
**20.06.1990** Service defect: 'UN - AUXILLARY MACHINES - WIRE RUBBED THROUGH IN EXCITER,REPAIRED.'.
**22.06.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR G/RELAYS.CHECKED & TRIAL RUN,NO FAULT FOUND.'.
**02.07.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN VEED OUT & GROUND.'.
**02.07.1990** Service defect: 'UN - TRACTION MOTOR - NO6 TM CHANGED A/C EARTH.(IN E132 OUT E121).'.
**09.07.1990** Service defect: 'UN - TRACTION MOTOR - NO6 TM CHANGED A/C EARTH ON INTERPOLE.(IN 168 OUT E132).'.
**22.07.1990** Service defect: 'UN - TRACTION MOTOR - NO5 & 6 TM'S CHANGED.(IN 211 & E160 OUT 263 & E124).'.
**24.07.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - R6,L6 WICKS REPLACED A/C DIRTY.'.
**01.08.1990** Service defect: 'UN - GENERAL ACCIDENT - BRAKE CYLINDERS,STEPS,COW CATCHER REPAIRED A/C COLLISION.'.
**09.10.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING TO RHS 'A'END STEP LIGHT REPLACED.'.
**13.12.1990** Service defect: 'UN - GENERAL - HAND BASIN REPAIRED.'.
**13.12.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED'.
**19.03.1991** Service defect: 'UN - COOLING SYSTEM - WATER/COOLANT SOLUTION REPLACED WITH WATER/DETERGENT SOLUTION,A/C OIL IN COOLING WATER.'.
**19.03.1991** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - HEAT EXCHANGER CHANGED.'.
**04.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES DRAIN COCK REPLACED.'.
**30.05.1991** Service defect: 'B - BOGIE - R3 & R6 SUSPENSION BEARING CAPS REMOVED & CLEANED,A/C FULL OF CRATER.CAPS SILICONED & REPLACED.'.
**30.05.1991** Service defect: 'B - BOGIE MAINTENANCE -

WICKS - R2 L2 R3 R6 L5 WICKS CHANGED,A/C DIRTY.'.

**24.07.1991** Service defect: 'SW - OTHER BODY REPAIRS - STEP MODIFICATIONS COMPLETED,PAINTED WITH NON-SLIP PAINT.'.

**08.11.1991** Service defect: 'UN - GENERAL - HOT PLATE SECURED.SERVICE WATER LEAK CHECKED OK.'.

**08.11.1991** Service defect: 'UN - VIGILANCE - VIG GLASS REPLACED.'.

**02.12.1991** Service defect: 'SW - BATTERY MAINTENANCE - BATTERIES REPLACED.'.

**02.12.1991** Service defect: 'SW - GENERAL - LOCO TESTED FOR SPARKS,NIL FOUND.'.

**02.12.1991** Service defect: 'SW - LUBRICATING SYSTEM - OIL HOSE REPLACED.'.

**07.02.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - L1 RADIATOR REPLACED,A/C LEAKING.'.

**07.04.1992** Service defect: 'C - CONTACTOR MISCELLANEOUS - FAN CONTACTOR REPLACED,A/C COIL ON ORIGINAL BURNT OUT.THERMOSTAT ADJUSTED DOWN.'.

**07.04.1992** Service defect: 'C - COOLING SYSTEM - WATER JUMPERS (BLOCK TO HEAD ) ON 2 & 3 REPAIRED.BRACKET RENEWED ON MAIN WATER LINE'.

**07.04.1992** Service defect: 'C - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED.'.

**07.04.1992** Service defect: 'C - ELECTRICAL MISCELLANEOUS - ALARM BELL REPAIRED.'.

**07.04.1992** Service defect: 'C - EXHAUST - EXHAUST REPAIRED,BOLTS REPLACED & CRACKS WELDED.'.

**07.04.1992** Service defect: 'C - GENERAL - R/SIDE MIRROR REPAIRED & SEAT BASE CHANGED,R.H.S.'.

**10.04.1992** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - ALL WICKS REPLACED & BOXES FILLED WITH OIL,BEARINGS & AXLE BOXES CHECKED OK,A/C ALL WICK RES FOUND EMPTY.'.

**07.08.1992** Service defect: 'A - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED. A/C LEAKING AND COMING THROUGH EXHAUST.'.

**07.08.1992** Service defect: 'A - MAIN GENERATOR BRUSHES - MAIN GEN. BRUSHES BEDDED IN A/C SHINEY COMM.'.

**07.08.1992** Service defect: 'A - MECHANICAL EQUIPMENT - REAR T/M BLOWER BELTS REPLACED.'.

**31.08.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - T/M'S INSPECTED A/C GROUND RELAYS. MEGGERED ZERO OHMS SUSPECT WATER IN T/M'S. SENT IN TO TRAFFIC TO DRY OUT T/M.'.

**04.09.1992** Service defect: 'UN - TRACTION MOTOR EARTH - NO. 5 T/M REPLACED A/C DOWN TO FRAME IN ARMATURE AND MAIN FIELD CIRCUIT. SAME BEARINGS AND WHEEL SET USED.'.

**28.10.1992** Service defect: 'B - EXHAUST - EXHAUST PIPE SECTION CHANGED, A/C CRACKED.'.

**19.12.1992** Service defect: 'UN - GENERAL ACCIDENT - CRASH REPAIRS - CONTROL & INDEPENDENT RELEASE PIPES REPAIREDA/C ACCIDENT DAMAGE. HANDRAIL REPAIRS COMPLETED. BRAKE'.

**11.01.1993** Service defect: 'SW - GENERAL - A.F.U.L.E.REPAIRES COMPLETED OK.'.

**11.01.1993** Service defect: 'SW - VIGILANCE - VIG MODS COMPLETED.'.

**15.02.1993** Service defect: 'A - CONTACTOR EP VALVES - COMPRESSOR MAGNET VALVE REPAIRED.'.

**15.02.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - GAUGE LIGHTS REPAIRED, HOOD LIGHT REPAIRED,'.

**15.02.1993** Service defect: 'A - GENERAL - REAR VISION MIRROR REPLACED.'.

**15.02.1993** Service defect: 'A - VIGILANCE - VIG REPAIRED.'.

**11.03.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - SENT ON TRIAL RUN, A/C GR'S, TESTED OK. MEGGER OK 500KOHMS.'.

**12.03.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - TRIAL RUN A/C GROUND RELAYS,NO FAULTS FOUND UNDER LOAD. POWER CIRCUIT MEGGERS 400K-OHM.'.

**12.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B' PACKAGE CHECKED OKAY'.

**12.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - SUNVISORS REPAIRED,SEAT CATCH REPAIRED.'.

**02.04.1993** Service defect: 'UN - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C INTERPOLES DOWN TO EARTH. T/M IN- 264-733. T/M OUT- 278-905.'.

**06.04.1993** Service defect: 'SW - EXHAUST - FLOW METER EXHAUST SET TO OUTSIDE OF CAB.'.

**06.04.1993** Service defect: 'SW - GENERAL - HAND BASIN REPAIRED.'.

**17.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BROKEN T/MOTOR BLOWER BELTS - BELTS REPLACED ON M/GEN END.'.

**26.05.1993** Service defect: 'F - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO BALLAST REPLACED,WORKING OK.'.

**26.05.1993** Service defect: 'F - '845'NUMBER GLASSES TO BE INSTALLED.26/5.'.

**12.08.1993** Service defect: 'A - FUEL SYSTEM INJECTORS - LOCO BLOWS EXCESSIVE WHITE SMOKE. MAY NEED INJECTOR CHANGE.NO INJECTORS APPEAR TO BE LEAKING THOUGH...'.

**12.08.1993** Service defect: 'A - OTHER BODY REPAIRS - NUMBER GLASSES INSTALLED.'.

**12.08.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED IN NO 4 T/MOTOR.'.

**12.08.1993** Service defect: 'A - INJECTOR CHANGE NEXT SERVICE.12/8.'.

**10.11.1993** Service defect: 'C - VIGILANCE - VIG FLASHER UNIT CHANGED, A/C NO LIGHTS FLASHING. TESTED OK.'.

**06.01.1994** Service defect: 'UN - BOGIE - AIR LEAK REPAIRED.'.

**06.01.1994** Service defect: 'UN - OTHER BODY REPAIRS - RIGHT HAND SEAT REPAIRED, A/C NOT LOCKING IN POSITION. WINDOW WIPER REPAIRED, A/C NOT TOUCHING WINDOW.'.

**05.02.1994** Service defect: 'A - FUEL SYSTEM INJECTORS - INJECTORS CHANGED.'.

**05.02.1994** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'AND 'B' PACKAGES REPLACED.'.

**05.02.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END PEDESTAL CUT OUT COCK REPLACED, A/C LEAKING. AUTO BRAKE VALVE CHANGED 'A'END.'.

**08.04.1994** Service defect: 'UN - TRACTION MOTOR FLASHOVER - ALL MOTORS HAD SLIGHT FLASH OVERS, ALL MOTORS CLEANED UP OK.P= 500K. C= 75K. LOCO MEGGERED - HT= 500K. LT= 50K.'.

**01.07.1994** Service defect: 'UN - CONTACTOR

MISCELLANEOUS - GA1 CABLE BROKEN OFF AT CONTACTOR - LUG REPLACED.'.

**846**

Details: locomotive '846 E' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $176650
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 01.01.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LSAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 04.02.1997 | | |
| Last Lift: | 08.02.1993 | | |
| SW Service Mileage: | 115024 KM | SW Service Date: | 25.11.1996 |
| A Service Mileage: | 121952 KM | A Service Date: | 04.02.1997 |
| B Service Mileage: | 95918 KM | B Service Date: | 24.04.1996 |
| C Service Mileage: | 111325 KM | C Service Date: | 23.10.1996 |
| D Service Mileage: | 1261694 KM | D Service Date: | 15.01.1992 |
| F Service Mileage: | 1249487 KM | A Service Date: | 08.02.1993 |
| US Service Mileage: | 103006 KM | A Service Date: | 19.09.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**16.03.1990** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - COUPLINGS - BOTH ENDS MODIFIED.'.
**16.03.1990** Service defect: 'SW - OTHER BODY REPAIRS - CAB MODS - COMPLETED. BATTERY BOX - RE-PLATED.'.
**20.03.1990** Service defect: 'SW - TRANSITION SELECTION ARMS TO REMOVE.HOLES IN CAB'.
**20.03.1990** Service defect: 'SW - WALL TO REPAIR.LOCO TO EQUIP.WIRING ON STEPS TO'.
**20.03.1990** Service defect: 'SW - REPAIR.'A'STEPLIGHT CONDUIT TO REPAIR.TOP BOLTS'.
**20.03.1990** Service defect: 'SW - ENGINE HATCH TO INSTALL.20/3*'.
**23.03.1990** Service defect: 'UN - GENERAL - HAND RAILS PAINTED.'.
**05.04.1990** Service defect: 'SW - BATTERY MAINTENANCE - FULL SET OF BATTERIES FITTED.'.
**05.04.1990** Service defect: 'SW - GENERAL - VARIOUS OUTSTANDING WORK COMPLETED.'.
**03.05.1990** Service defect: 'UN - FUEL SYSTEM LINES - NO3 HIGH PRESSURE LINE REPLACED.FUEL GAUGE REPLACED.'.
**24.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COIL IN FAN CONTROL BOX REPLACED.'.
**24.05.1990** Service defect: 'UN - FUEL SYSTEM - FUEL GAUGE REPLACED.'.
**05.06.1990** Service defect: 'UN - COOLING SYSTEM - LOW WATER ALARM SOUNDING OVER ROUGH TRACK.RADIATOR ONLY HALFFULL & OPERATING LWS.WATER TOPPED UP,CHECKED OK.'.
**22.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - BALLAST LAMP REPLACED'.
**12.07.1990** Service defect: 'UN - RADIO REPAIR - RADIO INSTALLED.'.
**28.07.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - CHECKED IN DEPOT NO BURNING OR DAMAGE TO WIRING FOUND.'.
**08.08.1990** Service defect: 'UN - GENERAL - STEPS MODIFIED.'.
**13.08.1990** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L2,R5 WICKS CHANGED.'.
**13.08.1990** Service defect: 'C - R 5 & L 2 BEARINGS TO MONITOR A/C SLIGHT LEAD WEAR'.
**16.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - EXCESS LEAD SCRAPED OFF L2,R5 BEARINGS.WICKS OK.'.
**16.08.1990** Service defect: 'UN - FUEL SYSTEM PUMP - NO1 FUEL PUMP CHANGED.'.
**14.09.1990** Service defect: 'UN - TRACTION MOTOR - NO3 TM CHANGED A/C EARTH FAULT.(IN E108 OUT E1).'.
**27.09.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L2,R5 WICKS CHECKED.'.
**27.09.1990** Service defect: 'UN - GENERAL - STEPS MODIFIED'.
**27.09.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED ACCOUNT DILUTION'.
**11.10.1990** Service defect: 'UN - BOGIE - HAND BRAKE/BRAKE BLOCK ADJUSTMENTS CARRIED OUT.'.
**11.10.1990** Service defect: 'UN - NO FAULT FOUND - LOW POWER BOOKED, NO FAULT FOUND.'.
**22.01.1991** Service defect: 'UN - EXHAUST - EXHAUST BELLOW REPAIRED'.
**26.03.1991** Service defect: 'A - OTHER BODY REPAIRS - STEP MOD COMPLETED.'.
**11.04.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO1 INJECTOR PUMP REPLACED,A/C SEIZED.'.
**29.04.1991** Service defect: 'UN - FUEL SYSTEM PUMP - NO1 FUEL PUMP REPLACED,A/C STUCK.'.
**03.07.1991** Service defect: 'UN - BOGIE - NO 4 LHS SAND PIPE CLEARED.'.
**03.07.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTORS CHANGED,A/C OIL EMITTING FROM EXHAUST.'.
**23.07.1991** Service defect: 'UN - AUXILLARY MACHINES - BRUSHES IN EXCITER REPLACED,A/C BURNT OUT.COMMUTATOR DRESSEDA/C FLATS.'.
**23.07.1991** Service defect: 'UN - GENERAL LOSS OF POWER - NO POWER IN NOTCHES 1-5,SEE ABOVE REPAIRS.'.
**31.07.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN INSULATORS CLEANED, MEGGERED - 500K.'.
**31.07.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 3 T/MOTOR INSULATORS CLEANED, A/C FLASHOVER.'.
**15.01.1992** Service defect: 'D - ELECTRICAL MISCELLANEOUS - FUEL PUMP REPLACED.'.
**27.01.1992** Service defect: 'SW - EXHAUST - EXHAUST BOLTS CUT OFF & REPLACED,A/C LOOSE.'.

**06.05.1992** Service defect: 'A - ENGINE - CRANKCASE EXHAUST PIPE REPLACED OK.'.
**06.05.1992** Service defect: 'A - FUEL SYSTEM PUMP - NO1 FUEL PUMP STICKY.REPLACED OK.'.
**06.05.1992** Service defect: 'A - GENERAL - R/SIDE 'B'END WINDSCREEN WIPER REPAIRED.OK.'.
**06.05.1992** Service defect: 'A - VIGILANCE - VIGILANCE FIXED AND RESEALED.OK.'.
**19.08.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L1 AND R6 WICK CHANGED.'.
**19.08.1992** Service defect: 'C - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED A/C ODOMETER NOT WORKING.'.
**19.08.1992** Service defect: 'C - EDDY CURRENT CLUTCH INSULATION BAD, MEGGERS DOWN'.
**19.08.1992** Service defect: 'C - TO FRAME. RUNS OK. TO MONITOR.20/8/92.'.
**07.09.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO.3 T/M CHANGED A/C EARTH ON INTERPOLES. T/M TAKEN OUT - 225. T/M PUT IN - E32.'.
**08.09.1992** Service defect: 'SW - OTHER BODY REPAIRS - STEP MODS COMPLETED.'.
**16.10.1992** Service defect: 'SW - VIGILANCE - VIG SET UP - VIG RUN THROUGH, TIME & PRESSURES SET OK.'.
**08.02.1993** Service defect: 'A - EARTH FAULT MISCELLANEOUS - EARTH FAULT IN COUPLING LIGHT SWITCH,DIRECTION TESTED OK.'.
**08.02.1993** Service defect: 'A - ELECTRICAL MISC. GROUND RELAY - GR'S ON START, W/SLILP IN POWER - CONNECTIONS CORRECTED.'.
**08.02.1993** Service defect: 'A - GENERAL - OVERHAUL COMPLETED.'.
**10.08.1993** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.'.
**10.08.1993** Service defect: 'SW - GENERAL - VARIOUS LOG BOOK REPAIRS COMPLETED.'.
**22.09.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LEFT HAND ELECTRICAL CABINET SEALS REPLACED.'.
**22.09.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NO 3 T/MOTOR REPLACED, A/C EARTH.'.
**11.10.1993** Service defect: 'A - ENGINE GOVERNOR MECHANICAL - GOVERNOR REPLACED A/C NOT SHUTTING DOWN.'.
**11.10.1993** Service defect: 'A - OTHER BODY REPAIRS - RHS MIRROR REPLACED.'.
**19.10.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NO 3 T/MOTOR REPLACED, A/C EARTH- FIELD. T/M IN - NO 272555.T/M OUT - NO 267768. LOCO DIRECTION TESTED OK.'.
**20.10.1993** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO 3 WICKS & OIL CHANGED, A/C DIRTY.'.
**20.10.1993** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LINE TO PRESSURE GAUGE REPAIRED.'.
**04.11.1993** Service defect: 'UN - TRACTION MOTOR EARTH - NO 3 T/MOTOR REPLACED, A/C EARTH ON FIELD. T/M OUT-272555. LOCO DIRECTION TESTED OK.'.
**17.11.1993** Service defect: 'TS - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'A'END RECEPTACLE CHECK - BOTH ENDS CHECKED OK. LOCO ON CONTROL RUNNING.'.
**17.11.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL AIR PROBLEM - CHECKED OK WITH ANOTHER GAUGE (5OOKPA)'.
**16.12.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NO.3 T/MOTOR CHANGED A/C EARTH ON INTERPOLES.'.
**30.12.1993** Service defect: 'B - BLOCKED FILTERS - FILTER MINDER GAUGE CHANGED.'.
**30.12.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - THREE WICKS CHANGED.'.
**30.12.1993** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH SLIP RINGS CONDITION OKAY TO CONTINUE TOMONITOR.'.
**30.12.1993** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED, A/C NOT REGULATING.'.
**30.12.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - CHANGED RHS INDEPENDENT BRAKE VALVE A/C NOT RELEASING.'.
**30.12.1993** Service defect: 'B - CATCH REQD FOR SLIDING WINDOWS,AIR COND CONDENSER'.
**30.12.1993** Service defect: 'B - FAN TO MONITOR BEARINGS,'.
**04.01.1994** Service defect: 'TW - WHEELSLIP - WIRE REPLACED ON WSRR33, A/C BROKEN CAUSING INTERMITTENT WHEEL SLIP.'.
**16.02.1994** Service defect: 'TS - ENGINE - ENGINE CHANGE COMPLETED. LOCO LOAD TESTED, 826 H.P.'.
**16.02.1994** Service defect: 'TS - FUEL SYSTEM INJECTORS - NO 3 AND NO 6 INJECTOR CHANGED.'.
**17.03.1994** Service defect: 'A - AIR CONDITIONING - AIR-COND. CONDENSOR FAN MOTOR TO MONITOR, A/C SUSPECT BEARIN-G.'.
**28.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NO FEED TO LOADMETERS. CHECK MOD (EX PT AUG) - DYN BRAKE SELECTOR POSITIONED CORRECTLY ON BOTH PEDESTALS.'.
**21.04.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GENERATOR AND T/M'S INSPECTED, CABLE RUBBING AGAINST ARMATURE IN NO 5 (ADJUSTED TO CLEAR). T/M INSULATORS WIPED'.
**02.05.1994** Service defect: 'UN - GENERAL - HAND BASIN REPS - PIPES REMOVED AND CLEANED, REFITTED. CHECKED OK.'.
**02.05.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HANDBRAKE REPAIRED.'.
**24.05.1994** Service defect: 'UN - EXHAUST - FLEXIBLE EXHAUST JOINT REFITTED.'.
**24.05.1994** Service defect: 'UN - NO FAULT FOUND - COULD NOT FAULT POWER PROBLEM - GF CONTACTS HAD BEEN PREVIOUSLY CLEANED.'.
**26.05.1994** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - REPAIRS TO L6 SANDER BRACKET COMPLETED, A/C DERAILMENT.'.
**11.06.1994** Service defect: 'C - FUEL SYSTEM - FUEL PRESSURE GAUGE REPLACED.'.
**11.06.1994** Service defect: 'C - GENERAL - DRIVERS SEAT REPLACED.'.

**847**

Details: locomotive '847 N' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $214810
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 25.06.1969
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 02.04.1997 | | |
| Last Lift: | 22.01.1986 | | |
| SW Service Mileage: | 753430 KM | SW Service Date: | 05.10.1996 |
| A Service Mileage: | 771033 KM | A Service Date: | 31.03.1997 |
| B Service Mileage: | 771640 KM | B Service Date: | 02.04.1997 |
| C Service Mileage: | 762415 KM | C Service Date: | 23.12.1996 |
| D Service Mileage: | 748234 KM | D Service Date: | 11.06.1996 |
| E Service Mileage: | 586824 KM | A Service Date: | 31.10.1991 |
| WT Service Mileage: | 685555 KM | WT Service Date: | 28.03.1994 |
| US Service Mileage: | 768985 KM | A Service Date: | 27.02.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**21.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - PCS REPLACED A/C FAULTY.'.
**18.09.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN V RING & COMM CLEANED A/C FLASHOVER.'.
**18.09.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO4 TM CLEANED A/C FLASHOVER.P-500K.'.
**20.10.1989** Service defect: 'UN - GENERAL - LHS SEAT REPLACED.'.
**25.10.1989** Service defect: 'UN - ENGINE - BOOKED FOR OIL OUT OF STACK.TEST RUN & CHECKED OK IN DEPOT.'.
**02.11.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - M/GEN V RING,COMM CLEANED A/C FLASHOVER.'.
**04.01.1990** Service defect: 'C - BATTERY MAINTENANCE - NEW BATTERIES FITTED TO THIS LOCO.'.
**09.03.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED UP AFTER GROUND RELAYS'.
**11.06.1990** Service defect: 'UN - AUXILLARY MACHINES - EXCITER REPAIRED & REPLACED.'.
**09.08.1990** Service defect: 'UN - RADIO REPAIR - RADIO FITTED.'.
**27.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HAND BRAKE REPAIRED.'.
**07.11.1990** Service defect: 'TS - TRACTION MOTOR FLASHOVER - BOOKED FOR GROUND RELAYS,NO3 TM HAS FLATS,TO BE CHANGED.'.
**12.11.1990** Service defect: 'UN - FUEL SYSTEM - FUEL TAG MODS COMPLETED.'.
**16.11.1990** Service defect: 'UN - TRACTION MOTOR - NO3 TM CHANGED.(IN 78 OUT E174).'.
**06.12.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - RECORDING SPEEDO CHANGED.'.
**13.12.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - NEW KNUCKLE REPLACED.'.
**13.12.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE ISOLATING COCK REPLACED.'.
**07.03.1991** Service defect: 'A - EXHAUST - EXHAUST STACK REPLACED A/C ORIGINAL TAKEN FOR 832.'.
**07.03.1991** Service defect: 'A - VIGILANCE - VIGILANCE NOT CANCELLING - PILOT AIR VALVE AND DOUBLE CHECK VALVE REPLACED.'.
**22.04.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 'B' END TRACTION MOTOR BLOWER BELTS TIGHTENED.'.
**22.04.1991** Service defect: 'UN - EXHAUST - EXHAUSTS JOINTS TIGHTENED A/C LEAKING.'.
**22.04.1991** Service defect: 'UN - GENERAL - SERVICE WATER PIPE REPLACED.'.
**22.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR DRAINS REPOSITIONED.'.
**31.10.1991** Service defect: 'UN - EXHAUST - EXHAUST JOINTS REPLACED.'.
**31.10.1991** Service defect: 'UN - GENERAL - SLIDING WINDOW SEALS L/H & R/H SIDE REPLACED.BOTH SIDE SEAT HEIGHT ADJUSTERS REPAIRED.'.
**31.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKES FAULTS RECTIFIED.'.
**23.01.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - NEW INJECTOR FITTED,NO 4 FUEL PUMP TIMING CHECKED,A/C NO4 NOT WORKING IN HIGH NOTCHES.'.
**03.07.1992** Service defect: 'A - AUXILLARY MACHINES - CRANKCASE EXHAUSTER REPLACED AND CHECKED OK.'.
**03.07.1992** Service defect: 'A - EARTH FAULT MISCELLANEOUS - EARTH ON GAUGE LIGHTS REPAIRED. EARTH ON SPEEDO REPAIRED.'.
**12.08.1992** Service defect: 'SW - BOGIE - 847 CONVERTED TO BROAD GAUGE.'.
**12.08.1992** Service defect: 'SW - GENERAL ACCIDENT - DERAILMENT REPAIRS COMPLETED.'.
**15.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GAUGE LIGHT RESISTORS REPLACED.'.
**15.09.1992** Service defect: 'UN - GENERAL - L.H.S. WINDOW REPAIRED.'.
**15.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - IND RELEASE VALVE REPLACED,45LB REDUCING VALVE REPLACED, DISTRIBUTING VALVE REPLACED & SAFETY VALVE REPLACED,A/C AIR'.
**24.09.1992** Service defect: 'UN - GENERAL LOSS OF POWER - ENGINE REV'S CHECKED OK. ENGINE SLOW TO REV'S.'.
**24.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PEDESTAL TOP GASKET REPLACED,A/C LEAKING.BRAKES TESTED OK.'.
**15.10.1992** Service defect: 'B - EXHAUST - NO 1 & 4 EXHAUST LEAKS REPAIRED. STACK REPAIRED, A/C LOOSE.'.
**15.10.1992** Service defect: 'B - GENERAL - R.H.S SEAT

CHECKED OK.'.
**15.10.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL LEAK ON PIPE FROM PUMP REPAIRED.'.
**20.02.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - ALL WICKS CHANGED, BEARING CAPS CLEANED, A/C DIRTY OIL.'.
**20.02.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - CRANKCASE EXHAUSTER BRUSHES CHANGED.'.
**20.02.1993** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - 2 BOLTS REPLACED & REST TIGHTENED ON TURBO EXHAUST.'.
**20.02.1993** Service defect: 'A - EXHAUST - NO 1,2 & 3 EXHAUST GASKETS REPLACED, REST TIGHTENED.'.
**20.02.1993** Service defect: 'A - MAIN GENERATOR BRUSHES - ALL BRUSHES CHANGED ON MAIN/GEN.'.
**20.02.1993** Service defect: 'A - NO FAULT FOUND - GR'S ON STARTING REPORTED, LOW TENSION MEGGERS OK, NO FAULT FOUND.'.
**20.02.1993** Service defect: 'A - BOTH PACKAGES TO MONITOR, A END A/C YOKE WEAR. B'.
**20.02.1993** Service defect: 'A - END, YOKE & PACKAGE WEAR.20/2.'.
**25.05.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - ALL WICKS REPLACED,A/C DIRTY.'.
**25.05.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED.'.
**25.05.1993** Service defect: 'C - MECHANICAL MAINTENANCE - SOUND WARNING - HORN MODS COMPLETED.'.
**15.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GAUGE LIGHTS REPAIRED.'.
**15.07.1993** Service defect: 'UN - GENERAL - FUMES IN CAB - DOOR SEALS REPAIRED. EXHAUST TIGHTENED.'.
**15.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENTS REPAIRED. MAIN RESERVOIR ADJUSTED.'.
**13.08.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1 AND R5 WICKS CHANGED. ALL WICK OILS CHANGED A/C DIRTY. **** BOGIES REQUIRED FOR THIS LOCO A/C 6'S ON FLANGES.*****'.
**13.08.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - 'A'END R/SIDE SAND BOX CLEARED A/C WET SAND.'.
**16.09.1993** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN REPAIRED, A/C BEARINGS U/S. COMMUTATOR STONED & CHECKED OK.'.
**18.11.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - 10 WICKS REPLACED.'.
**18.11.1993** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - WIRES REPLACED ON WHEEL SLIP LIGHT.'.
**18.11.1993** Service defect: 'B - FUEL SYSTEM - NO 1 FUEL JUMPER GASKET REPLACED.'.
**18.11.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDER FAULT REPAIRED.'.
**23.02.1994** Service defect: 'A - FUEL SYSTEM INJECTORS - NO 2 INJECTOR CHANGED, A/C DRIBBLING]'.
**23.02.1994** Service defect: 'A - FUEL SYSTEM PUMP - NO 2 FUEL PUMP CHANGED, A/C LEAKING.'.
**23.02.1994** Service defect: 'A - GENERAL - DRIVERS SEAT REPAIRED.'.
**23.02.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - T.P. LEAK REPAIRED.'.
**23.02.1994** Service defect: 'A - TRACTION MOTOR - 'B'END T/MOTOR BLOWER FAN BELTS REPLACED.'.
**13.05.1994** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - W/SLIP GLOBES AND LENS REPLACED.'.
**13.05.1994** Service defect: 'SW - GENERAL - SEAT AIRLINE REPAIRS COMPLETED.'.
**13.05.1994** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER REPLACED.'.
**02.06.1994** Service defect: 'C - ENGINE CYLINDER HEADS - NO 5 HEAD CHANGED, A/C VALVE DROPPED.'.
**02.06.1994** Service defect: 'C - EXHAUST - ALL EXHAUST BOLTS TIGHTENED.'.
**02.06.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE FITTED.'.
**02.06.1994** Service defect: 'C - OTHER BODY REPAIRS - NON SLIP MATERIAL FITTED TO STEPS.'.
**02.06.1994** Service defect: 'C - TRACTION MOTOR - T/MOTOR BLOWER FAN BEARINGS REPLACED, FAN BODY HOUSING REWELDED. NO 5 T/M BRUSHES, A/C COPPER DRAG.'.
**27.06.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 3 HEAD CHANGE COMPLETED, A/C LEAKING OIL AND EXHAUST FUMES.'.
**27.06.1994** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTOR CHANGED.'.
**27.06.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGE COMPLETED.'.
**27.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - SAFETY VALVE (135LB) FITTED.'.

**848**

Details: locomotive '848 W' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $214810
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 09.07.1969
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LSAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 14.03.1997 | | |
| SW Service Mileage: | 490161 KM | SW Service Date: | 14.09.1996 |
| A Service Mileage: | 500842 KM | A Service Date: | 21.11.1996 |
| B Service Mileage: | 480778 KM | B Service Date: | 07.03.1996 |
| C Service Mileage: | 501023 KM | C Service Date: | 22.01.1997 |
| D Service Mileage: | 376939 KM | D Service Date: | 21.11.1990 |
| E Service Mileage: | 458207 KM | A Service Date: | 06.10.1994 |
| WT Service Mileage: | 410570 KM | WT Service Date: | 03.11.1992 |
| US Service Mileage: | 504197 KM | A Service Date: | 14.03.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443

LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CON/ROD FAILURE - COMPRESSOR UNIT REPLACED.'.

**24.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE VALVE REPLACED A/C FAULTY'.

**11.12.1989** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - AIR/COND BELTS REPLACED ON PULLEYS.(BELTS OFF) - ('B'END T/MOTOR BLOWER HOUSING SECURED)'.

**16.01.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - M/GENERATOR CLEANED/UP & AIR CURED.'.

**16.01.1990** Service defect: 'UN - WHEELSLIP - RELAYS - WHEEL/SLIP RELAYS REPAIRED.'.

**30.01.1990** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - HIGH/PRESSURE SWITCH RE-SET.(CUT/OUT).'.

**31.01.1990** Service defect: 'SW - AIR CONDITIONING - COMPRESSOR - ALIGNMENT CHECK OK.'.

**27.07.1990** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - REGULATOR FAULTY - VOLTAGE REGULATOR CHANGED/OUT.'.

**03.08.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - C/BREAKER TRIPPING - AUX/GEN.C/BREAKER REPLACED'.

**13.09.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP - S21 E.P.VALVE REPLACED.(CONTINUOUS WHEEL/SLIP)'.

**03.10.1990** Service defect: 'UN - 'B'END RECEPTACLE TO REPAIR.(BADLY BENT) (3/10)'.

**11.10.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - HANDRAIL AND RECEPTACLE REPAIRS,B END,COMPLETED,WATER ADDED'.

**19.12.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND.REPAIRS - COMPLETED.'.

**19.12.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - C/BREAKER - BATT.C/BREAKER REPLACED,USED FOR LOCO.859.'.

**03.02.1991** Service defect: 'UN - AIR CONDITIONING - BELT FAILURE - UNIVERSAL BELT FITTED.'.

**03.02.1991** Service defect: 'UN - FURTHER ATTENTION REQUIRED.(DRIVE SHAFT TO SPLIT)'.

**07.02.1991** Service defect: 'SW - AIR CONDITIONING - BELT REPAIR - NEW BELTS FITTED & ALIGNMENT COMPLETED.'.

**05.03.1991** Service defect: 'UN - BATTERY MAINTENANCE - STARTING PROBLEM - 1 NO.STARTING BATTERY REPLACED. (DEAD CELL) - LOCO STARTED OK ON OWN BATTERIES.'.

**04.04.1991** Service defect: 'UN - EXHAUST - CRACKED JOINT - EXPANSION JOINT TO SUPER/CHARGER REPLACED.'.

**03.05.1991** Service defect: 'UN - BROKEN VALVE - FAULTY VALVE - NO.4 CYL/HEAD REPLACED.'.

**08.11.1991** Service defect: 'UN - EXHAUST - SMOKY EXHAUST - SUPER/CHARGER & INJECTORS REPLACED.'.

**13.12.1991** Service defect: 'UN - EXHAUST - OILY EXHAUST - FULL SET NEW PISTONS INSTALLED. - LOCO LOAD TEST COMPLETED.'.

**13.12.1991** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIRS - COMPLETED.'.

**27.11.1992** Service defect: 'UN - 'B' END PACKAGE TO MONITOR.27/11.'.

**18.12.1992** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - VIG BUTTON 13 WIRE TO FRAME ALSO HOT PLATE 44 WIRE TO FRAME CREATING SHORT, REPAIRED OK.'.

**18.12.1992** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - 'A' COUPLER REPLACED.'.

**18.12.1992** Service defect: 'SW - VIGILANCE - V/C TIMING SET & CHECKED OK.'.

**31.12.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - LOW PRESSURE SWITCH ADJUSTED UP, A/C TOO LOW.'.

**31.12.1992** Service defect: 'UN - GENERAL - TOILET UNBLOCKED.'.

**31.12.1992** Service defect: 'UN - VIGILANCE - VIG BREAKER FOUND OFF,WIRE REPLACED ON C1 CAPACITOR. VIG CONTROL CHECKED OK.'.

**27.02.1993** Service defect: 'UN - BLOCKED FILTERS - BLOCKED FILTERS - FUEL FILTERS REPLACED A/C LOW FUEL PRESS. 38PSI AFTER FILTER CHANGE. LOCO TESTED IN YARD OK.'.

**09.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 70LB FEED VALVE REPLACED, A/C TRAIN PIPE OVERCHARGING.'.

**01.04.1993** Service defect: 'B - ELECT. MISC. - GAUGES & INSTRUMENTS - OIL PRESSURE GAUGE REPLACED.'.

**01.04.1993** Service defect: 'B - EXHAUST - LOWER EXHAUST BELLOW RENEWED.'.

**01.04.1993** Service defect: 'B - MAIN GENERATOR BRUSHES - M/GENERATOR BRUSHES BEDDED IN.'.

**01.04.1993** Service defect: 'B - 70LB FEED VALVE TO CHANGE,NIL STOCK.1/4.'.

**03.05.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - ALL T/M'S FLASHED,NO REPAIRS NECESSARY,CLEANED,A/C GR'S.'.

**03.05.1993** Service defect: 'UN - M/GEN COMMUTATOR CONDITION TO MONITOR,A/C GEN'.

**03.05.1993** Service defect: 'UN - FLASHED.3/5.'.

**26.05.1993** Service defect: 'SW - AIR CONDITIONING - AIR/CON COMPRESSOR BELTS REPLACED.'.

**26.05.1993** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - GAUGE LIGHT WIRING REPAIRED.'.

**26.05.1993** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - 1,2,3,4,5,& 6 T/MOTORS VEED,CLEANED & WIRE BRUSHED. NOS 1 & 3 V RINGS PAINTED. 10 BRUSHES CHANGED,A/C GR'S.'.

**26.05.1993** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - RESISTORS AT REAR OF ELECT COMPARTMENT SECURED.'.

**26.05.1993** Service defect: 'SW - MAIN GENERATOR - MAIN GENERATOR VEED,CLEANED & WIRE BRUSHED,V RING & RISERS CLEANED & PAINTED. ALL INSULATORS CLEANED.'.

**26.06.1993** Service defect: 'A - AIR CONDITIONING - AIR CON FAN REPLACED.'.

**26.06.1993** Service defect: 'A - BOGIE - CARRIER PLATES INSTALLED.'.

**26.06.1993** Service defect: 'A - ENGINE WATER LEAK - ELBOW GASKET REPLACED ON NO 1 HEAD,A/C WATER LEAK.'.

**26.06.1993** Service defect: 'A - MAIN GENERATOR FLASHOVER - MAIN GEN COMM CLEANED UP,A/C

FLASHOVERS.'.
**26.06.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE REPLACED.'.
**26.06.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES MANUFACTURED & INSTALLED.'.
**26.06.1993** Service defect: 'A - TRACTION MOTOR - BOTTOM COVER ON NO 3 T/M REPLACED,A/C MISSING.'.
**01.07.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 4 WHEELSET REPLACED.'.
**01.07.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 4 T/MOTOR REPLACED,A/C FLASHOVERS.'.
**08.09.1993** Service defect: 'C - LUBRICATING SYSTEM - OIL SAMPLE COCK REPLACED.'.
**08.09.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END MAIN RES COCK REPLACED. 'V'BOLT MAIN RES 'A'END REPLACED.'.
**08.09.1993** Service defect: 'C - INDEPENDANT RELEASE VALVE NOT WORKING PROPERLY,'.
**08.09.1993** Service defect: 'C - NIL STOCK MPC.8/9.'.
**04.10.1993** Service defect: 'TW - MECHANICAL EQUIPMENT COUPLER - FAST COUPLER LUBRICATED.'.
**12.10.1993** Service defect: 'UN - FUEL SYSTEM PUMP - NO'S 3, 4 AND 6 FUEL PUMPS CHANGED A/C LEAKING CAUSING FUEL DILUTION.'.
**12.10.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL AND OIL FILTERS CHANGED A/C FUEL DILUTION.'.
**01.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB FUMES - ELECTRICAL CAB DOORS FOUND MISALIGNED & NOT SEALING. REPOSITIONED & OK. ALL OTHER DOORS & WINDOWS CHECKED OK'.
**04.11.1993** Service defect: 'UN - ENGINE ROOM - 3' OF FUEL DRAINED FROM UNDER GENERATOR, A/C DRAIN BLOCKED.'.
**04.11.1993** Service defect: 'UN - FUEL SYSTEM LINES - RETURN FUEL LINE REPLACED, A/C BROKEN.'.
**09.11.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - COUPLER RUBBERS REPLACED BETWEEN COMPRESSOR AND FAN GEARBOX.'.
**10.11.1993** Service defect: 'UN - FUEL SYSTEM PUMP - NO'S 1,3 AND 5 FUEL INJECTION PUMPS CHANGED, A/C LEAKING FUEL. NO 5 FUEL PUMP CONNECTION ALSO LEAKING ON MANIFOLD'.
**10.11.1993** Service defect: 'UN - 'B'END PACKAGE TO CHANGE.10/11.'.
**26.11.1993** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - AUXILIARY SHUNT LEAD ON REVERSER REPLACED, A/C BROKEN. SANDERS CHECKED OK.'.
**13.01.1994** Service defect: 'A - AIR CONDITIONING - AIR COND. GAS LEAK REPAIRED AND RE-GASSED. ROOF LEAKS REPAIRED AROUND AIR-COND.'.
**13.01.1994** Service defect: 'A - ENGINE - CONROD BOLT SPLIT PINS CHECKED OK.'.
**09.03.1994** Service defect: 'SW - BATTERY MAINTENANCE - BATTERY REPLACED, CHECKED OK.'.
**09.03.1994** Service defect: 'SW - ENGINE - NO 6 LINER REPLACED.'.
**06.04.1994** Service defect: 'B - AIR CONDITIONING - AIR CON CHECKED OK.'.
**06.04.1994** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L4,L5,L6,R5 & R6 WICKS REPLACED. OIL CHANGED IN ALL WICKS.'.
**06.04.1994** Service defect: 'B - FUEL SYSTEM PUMP - FUEL PUMP REPLACED, A/C DOWN TO EARTH.'.
**06.04.1994** Service defect: 'B - GENERAL - BOTH SEATS REPLACED.'.
**06.05.1994** Service defect: 'UN - FUEL SYSTEM - FUEL GAUGE REPAIRED, A/C LEAKING.'.

**849**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**20.07.1989** Service defect: 'B - AUXILLARY MACHINES - 'A'END TM BLOWER BELTS & HOLDING DOWN BOLTS TIGHTENED, BEARINGS GREASED'.
**08.08.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - NEW LOAD METER FITTED A/C EARTH ON LOADMETER GAUGE LIGHTS.'.
**14.08.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON GAUGE LIGHTS REPAIRED.'.
**14.08.1989** Service defect: 'UN - BRAKE LEVERS TO MODIFY A/C NIL ADJUSTMENT.'.
**21.09.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - WATER HOSE FROM TURBO REPLACED.'.
**26.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3,R5 WICKS REPLACED & OIL CHANGED.'.
**26.10.1989** Service defect: 'A - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED.'.
**02.11.1989** Service defect: 'UN - GENERAL - RH SIDE SEAT REPAIRED.'.
**14.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END AUTO COUPLER LIFTING GEAR REPAIRED.'.
**30.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.5 BLOCKS CHANGED.'.
**08.03.1990** Service defect: 'UN - FUEL SYSTEM - FUEL TANK GAUGE CLEANED A/C PAINT.'.
**23.03.1990** Service defect: 'UN - GENERAL - HAND RAILS PAINTED.'.
**29.03.1990** Service defect: 'UN - GENERAL - WINDOWS REPAIRED.'.
**08.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - SHARON AUTO COUPLERS REPLACED.'.
**27.08.1990** Service defect: 'UN - GENERAL - RHS DOOR GLASS REPLACED.'.
**21.09.1990** Service defect: 'TS - FUEL SYSTEM PUMP - NO3 F.P. TOP SEAL REPAIRED.'.
**15.10.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L3 WICK REPLACED.'.
**16.11.1990** Service defect: 'UN - COOLING SYSTEM - JOINT ON NO1 WATER RAIL REPLACED A/C LEAKING.'.
**21.12.1990** Service defect: 'SW - BOGIE - BRAKE BLOCKS CHANGED A/C PISTON TRAVEL. LOCO RELEASED AS A TRAILING LOCO ON MAIN LINE- BOGIES NOT AVAILABLE UNTIL 2/91.'.
**01.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - MODIFICATION - ONE/MAN CREWING MODS COMPLETED. (LITTLE TOOT)- BODY & UNDER/FRAME REPAINTED.'.

**14.08.1991** Service defect: 'UN - EXHAUST - EXHAUST @ STACK GASKETS REPLACED A/C LEAKING.'.
**14.08.1991** Service defect: 'UN - FUEL SYSTEM PUMP - ALL FUEL PUMPS TIMED.'.
**16.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - MINOR FAULTS - COMPLETED, RE-NUMBERED DA1P.'.
**19.08.1991** Reclassified from locomotive '849 X' to ' locomotive 'DA 1 P'.

**850**

Details: locomotive '850 E' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 70.2tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $192110
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CN L-10
**Date Built:** 30.03.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LEAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 26.06.1995 | | |
| Last Lift: | 16.10.1967 | | |
| SW Service Mileage: | 468899 KM | SW Service Date: | 09.10.1992 |
| A Service Mileage: | 567909 KM | A Service Date: | 26.06.1995 |
| B Service Mileage: | 437288 KM | B Service Date: | 12.05.1992 |
| C Service Mileage: | 494405 KM | C Service Date: | 16.04.1993 |
| E Service Mileage: | 388927 KM | A Service Date: | 17.04.1991 |
| US Service Mileage: | 564899 KM | A Service Date: | 18.05.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**14.01.1991** Service defect: 'SW - OTHER BODY REPAIRS - ALUMINIUM WINDOWS FITTED TO DRIVER & FIREMANS SIDE.BOTH DOORWINDOW GLASS &SEALS REPLACED.'.
**14.01.1991** Service defect: 'SW - MODIFICATIONS TO MIRRORS TO BE COMPLETED.'.
**06.02.1991** Service defect: 'TW - AIR CONDITIONING - LEAK TESTED & REGASSED..'.
**26.02.1991** Service defect: 'SW - AIR CONDITIONING - SPLIT LINK AIRCONDITIONER COMPRESSOR DRIVE BELTS REPLACED.'.
**26.02.1991** Service defect: 'SW - A 58 ,V,BELTS TO BE FITTED TO AIRCONDITIONER COMPR'.
**26.02.1991** Service defect: 'SW - ESSOR.'.
**06.03.1991** Service defect: 'SW - AIR CONDITIONING - AIRCONDITIONER DRIERS REPLACED, LEAK TESTED & REGASSED.'.
**06.03.1991** Service defect: 'TW - AIR CONDITIONING - A 58 V BELTS F'.
**06.03.1991** Service defect: 'SW - DRIVERS & OBSERVERS FIXED GLASS & SEALS TO BE REPL'.
**06.03.1991** Service defect: 'SW - ELECTRIC VIGILANCE TO BE FITTED.'.
**06.03.1991** Service defect: 'SW - ACED.'.
**13.03.1991** Service defect: 'SW - AIR CONDITIONING - AIRCONDITIONER SYSTEM VACUATED & REGASSED.'.
**13.03.1991** Service defect: 'SW - ELECTRIC VIGALANCE MOD TO BE FITTED.'.
**11.04.1991** Service defect: 'SW - OTHER BODY REPAIRS - DRIVERS & OBSERVERS FIXED GLASS & SEALS REPLACED.'.
**11.04.1991** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - OIL HEATEXCHANGER REPLACED.'.
**11.04.1991** Service defect: 'SW - SLIGHT THREADING AUX GEN COMM TO MONITOR.NO 3 T/M'.
**11.04.1991** Service defect: 'SW - FLASH DAMAGE TO MONITOR.SLIGHT LEAK WATER PUMP TO'.
**11.04.1991** Service defect: 'SW - MONITOR.LHS RADIATOR LEAKING TO MONITOR.'.
**17.04.1991** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - FARR AIR FILTER MOD FITTED TO TURBOCHARGER.'.
**17.04.1991** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER CHANGED SERIAL NO 116829 FITTED.'.
**17.04.1991** Service defect: 'E - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED,AMPOL TECOMA 100 USED.'.
**13.09.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - EXTERNAL AIR FEED MOD FITTED TO TURBO.'.
**31.10.1991** Service defect: 'UN - AIR CONDITIONING - FAN MOTOR REPAIRED'.
**13.01.1992** Service defect: 'TW - ENGINE - TURBO FILTERS CHANGED'.
**13.01.1992** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS SIDE FIXED WINDOW AND MIRROR BROKEN -REPLACED'.
**15.01.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BALLAST REGULATOR REPLACED'.
**15.01.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT FEED VALVE ADJUSTED'.
**15.01.1992** Service defect: 'UN - OTHER BODY REPAIRS - ELECTRICAL CABINET DOOR SEALS REPAIRED.'.
**15.01.1992** Service defect: 'UN - OTHER BODY REPAIRS - HOLES IN NOSE COMPARTMENT AND ELECTRICAL CABINET REPAIRED.'.
**16.01.1992** Service defect: 'UN - EXHAUST - LEAKING EXHAUST COUPLING REPLACED'.
**03.04.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - ALL WHEELS CHANGED ACC PROFILES.NARROW GAUGE BOGIES FITTED.'.
**15.04.1992** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE CHANGED'.
**20.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - RHS BOTTOM OUTSIDE BATTERY CHANGED.'.
**14.08.1992** Service defect: 'SW - ENGINE GOVERNOR - GOVERNOR CHANGED.'.
**14.08.1992** Service defect: 'SW - FUEL SYSTEM - AUTO SHUTOFF VALVES FITTED TO FUEL TANK.'.
**14.08.1992** Service defect: 'SW - OTHER BODY REPAIRS - 10 L WATER DETT BOX,GOV,COMPRESS & DETERGENT BOTTLES FITTED.'.
**02.09.1992** Service defect: 'UN - ENGINE CYLINDER HEADS -

NO 4 & 5 CYL HEADS CHANGED.'.
**02.09.1992** Service defect: 'UN - ENGINE PISTON - NO 4 & 5 PISTON COMRESSION & OIL SCRAPER RINGS REPLACED.'.
**02.09.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO AIR FEED MOD FITTED.'.
**02.09.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO 1,4 & 5 INJECTORS CHANGED.'.
**02.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - ELECTRIC KETTLE FITTED.'.
**09.10.1992** Service defect: 'SW - ENGINE CYLINDER HEADS - NO 1 CYL HEAD REPLACED.'.
**09.10.1992** Service defect: 'SW - ENGINE PISTON - NO 1 PISTON RINGS REPLACED.'.
**09.10.1992** Service defect: 'SW - VIGILANCE - ELECTRIC VIGILANCE FITTED.'.
**21.12.1992** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - NUMBER LIGHT SWITCH REPLACED'.
**19.03.1993** Service defect: 'UN - BATTERY MAINTENANCE - 2 BATTERIES CHANGED FROM BOTTOM LHS.ONE CHANGED FROM BOTTOM RHS'.
**07.05.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - #2 SUSPENSION WICK CHANGED'.
**01.07.1993** Service defect: 'UN - COOLING SYSTEM - COOLING SYSTEM FLUSHED.'.
**01.07.1993** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - OIL COOLER ALLOWING OIL TO PASS INTO WATER COOLING SYSTEM - OIL COOLER CHANGED'.
**29.07.1993** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - GEAR BOX BOLTS TIGHTENED.'.
**29.07.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDING MAGNET VALVE CHANGED AND BLOCKED PIPE CLEARED.'.
**29.07.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED DUE TO FAULTY CLOCK.'.
**03.09.1993** Service defect: 'CA - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO SHAFT BROKEN - TURBO REPLACED.'.
**08.10.1993** Service defect: 'FA - TRACTION MOTOR BURNTOUT - TRACTION MOTOR #5 BURNT OUT.'.
**29.11.1993** Service defect: 'TW - FUEL SYSTEM LINES - INJECTOR FUEL LINE #1 REPLACED.'.
**22.12.1994** Service defect: 'FA - REPLACE WINDOW'.
**22.12.1994** Service defect: 'FA - REPAIR OBSERVERS SIDE DOOR'.
**22.12.1994** Service defect: 'FA - REPAIR RADIO'.
**22.12.1994** Service defect: 'FA - TRACTION MOTOR NOSE SUSPENSION WEAR PLATES WELD'.
**18.05.1995** Service defect: 'UN - DOOR CLOSERS - B SIDE DOOR STOP LOOSE - REFIXED.'.
**18.05.1995** Service defect: 'UN - DOORS - B SIDE DOOR SEAL COMING OFF - DOOR REMOVED AND SEAL REPAIRED'.
**18.05.1995** Service defect: 'UN - MECHANICAL EQUIPMENT - B SIDE WIPER ARM MISSING - REPLACED.'.

**851**

Details: locomotive '851 N' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 70.2tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $192110
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CN L-10
**Date Built:** 19.04.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LEAS

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 05.05.1995 | | |
| Last Lift: | 06.12.1967 | | |
| SW Service Mileage: | 557670 KM | SW Service Date: | 02.11.1992 |
| A Service Mileage: | 699429 KM | A Service Date: | 07.10.1994 |
| B Service Mileage: | 729225 KM | B Service Date: | 05.05.1995 |
| C Service Mileage: | 679088 KM | C Service Date: | 06.06.1994 |
| D Service Mileage: | 619956 KM | D Service Date: | 13.09.1993 |
| US Service Mileage: | 726673 KM | A Service Date: | 16.03.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**17.01.1991** Service defect: 'C - CAB DOORS GLASS &SEALS TO BE REPLACED.'.
**23.01.1991** Service defect: 'SW - OTHER BODY REPAIRS - CAB DOORS WINDOW GLASS &SEALS REPLACED..'.
**04.02.1991** Service defect: 'TW - DRIVERS GLASS BOTH SIDES OF CAB TO REPLACE..'.
**07.03.1991** Service defect: 'TW - AIR CONDITIONING - AIRCONDITIONER DRIERS REPLACED , LEAK TESTED & REGASSED.'.
**20.03.1991** Service defect: 'TW - R.H.S.NO 1 BRAKE SHOE SEIZED,TO BE REPAIRED..'.
**05.04.1991** Service defect: 'SW - ENGINE - ENGINE OIL & FILTERS CHANGED.'.
**19.04.1991** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED,CALTEX RPM 100 OIL USED..'.
**18.09.1991** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - PAPER AIR FILTER MOD FITTED.'.
**18.09.1991** Service defect: 'SW - OTHER BODY REPAIRS - ALUMINIUM CAB WINDOWS FITTED.'.
**18.09.1991** Service defect: 'SW - LHS BATTERY BOX FLOOR TO REPLACE.ELECTRIC VIGILANC'.
**18.09.1991** Service defect: 'SW - E TO BE FITTED.'.
**04.10.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - W.I.138 BRAKE CYLINDER WARNING LIGHTS FITTED MINUS DIODE.'.
**04.10.1991** Service defect: 'SW - LUBRICATING SYSTEM - ENGINE OIL & FILTERS CHANGED,MOBIL 20/40 TEST OIL USED.'.
**04.10.1991** Service defect: 'SW - VIGILANCE - ELECTRIC VIGILANCE FITTED.'.
**04.10.1991** Service defect: 'SW - LHS BATTERY BOX FLOOR TO REPLACE.BCP DIODE TO FIT.'.

**22.11.1991** Service defect: 'SW - BOGIE - NARROW GAUGE FRAME BOGIES NO 28 & 29 FITTED. BOGIES OVERHAULED EX ISLINGTON.'.
**22.11.1991** Service defect: 'SW - L/H SIDE DRIVERS FIXED GLASS TO REPLACE.'.
**26.11.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO 5 TRACTION CHANGED ACC INTERPOLES TO EARTH.'.
**16.01.1992** Service defect: 'TW - AIR CONDITIONING - COMPRESSOR CLUTCH REPLACED.SPARE BELTS STRAPPED TO GUARD.'.
**22.01.1992** Service defect: 'SW - CONTACTOR MISCELLANEOUS - BROKEN BRAID ON GENERATOR FIELD CONTACTOR REPLACED'.
**22.01.1992** Service defect: 'SW - WHEELSLIP - TRACTION MOTOR NO.3 CONNECTIONS TO ARMATURE CLEANED'.
**06.03.1992** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL RACKS CHECKED & ADJUSTED.'.
**06.03.1992** Service defect: 'UN - FUEL SYSTEM PUMP - NO 3 FUEL PUMP CHANGED ACC STICKY RACK.'.
**06.03.1992** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - OIL LEAK HEAT EXCHANGER REPAIRED.'.
**16.03.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRE TO ENGINE CONTROL SWITCH BURNT.WIRE REPLACED.'.
**27.03.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - NO 7 & 12 WIRES TO A SIDE CONTROL STAND THROTTLE CONTROL RPL'.
**01.05.1992** Service defect: 'TW - EXHAUST - LOWER EXHAUST CONCERTINA TO TURBO CRACKED - REPLACED'.
**01.05.1992** Service defect: 'TW - FUEL SYSTEM - PRIMARY FILTER LEAKING - GASKET RENEWED'.
**14.05.1992** Service defect: 'A - EXHAUST - TURBO CONCERTINA GASKETS REPLACED.'.
**14.05.1992** Service defect: 'A - MAIN GENERATOR - 3 BRUSH HOLDER ARMS REMOVED & CLEANED ON MAIN GEN.'.
**03.07.1992** Service defect: 'SW - FUEL SYSTEM - AUTO SHUT OFF VALVES FITTED TO FUEL TANK.'.
**06.08.1992** Service defect: 'UN - BOGIE - BOGIES EX 869 FITTED.NO 2 T/M FITTED WITH 1/16 O/S BEARINGS.'.
**06.08.1992** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR EX 850 FITTED.'.
**11.08.1992** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - ALL WICKS REMOVED & INSPECTED AFTER FIRST TRIP.BOGIES EX 869'.
**11.08.1992** Service defect: 'SW - OTHER BODY REPAIRS - NEW BREMSHEY SEATS MOUNTINGS ADJUSTED.B DOOR SEAL REPAIRED.'.
**27.08.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER OVERHAULED ACC G/RELAY.'.
**27.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - HATCH ROOF SEALS REPAIRED ABOVE ELECTRICAL CUBICLE.'.
**02.11.1992** Service defect: 'SW - BOGIE - L/H/S 1 & 6 HORN STAY WEAR PLATES REPLACED.'.
**05.11.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 3 T/M UNDERCUT & CLEANED ACC FAULTY O/H EX ISLINGTON.'.
**06.12.1992** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR NO 6 REMOVED ACC FIELD COIL BOLTS LOOSE.'.
**29.04.1993** Service defect: 'A - - WEAR PLATE REPLACED ON #2 NOSE SUSPENSION'.
**29.04.1993** Service defect: 'A - EARTH FAULT MISCELLANEOUS - EARTH FAULT REMOVED FROM AIR CONDITIONER'.
**29.04.1993** Service defect: 'A - ELECTRICAL GENERAL - COPPER DRAG REMOVED FROM EXCITER'.
**29.04.1993** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - OIL DRAINED AND REPLACED FROM AIR COMPRESSOR DUE TO BLACKENING'.
**19.05.1993** Service defect: 'TW - MARKER LIGHTS - LAMP HOLDER BURNT OUT A END RHS - HOLDER REPLACED.'.
**19.05.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDER VALVE REPLACED.'.
**20.07.1993** Service defect: 'FA - ADJUST BRAKES - THREE BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.
**20.07.1993** Service defect: 'FA - TRACTION MOTOR EARTH - TRACTION MOTOR #1 EARTH FAULT - CHANGED OUT.'.
**28.07.1993** Service defect: 'TW - MARKER LIGHTS - FRONT LHS MARKER LIGHT NOT WORKING.'.
**13.09.1993** Service defect: 'D - AUXILLARY MACHINES - EXCITER COPPER DRAG REMOVED. AUXILIARY GEN 1 BRUSH REPLACED.'.
**13.09.1993** Service defect: 'D - ELECT.MISC. SWITCHES/CIRCUIT BREAKERS - MANUAL POWER RHEOSTAT CHANGED AND FUSE REPLACED. GOV PLUG REPAIRED.'.
**13.09.1993** Service defect: 'D - ELECTRICAL MISCELLANEOUS - SANDING EP VALVE CHANGED.'.
**13.09.1993** Service defect: 'D - MAIN GENERATOR BRUSHES - M/GEN V-RING AND RISER CLEANED,1 BRUSH CHANGED,COMM SLOTS CLEANED OUT.'.
**23.03.1994** Service defect: 'TW - OTHER BODY REPAIRS - BLOCKED DRAIN FROM AIR CONDITIONER CLEARED.'.
**04.05.1994** Service defect: 'TW - BODY REPAIRS - ACCIDENT - RHS MIRROR REPLACED - BROKEN.'.
**06.06.1994** Service defect: 'C - BOGIE MAINTENANCE - BOLSTERS - TWO NOSE SUSPENSIONS REPAIRED.'.
**06.06.1994** Service defect: 'C - ELECTRICAL MISC. MODULES - MANUAL POWER MODULE REPAIRED.'.
**06.06.1994** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED. - FAULTY SEAL/BEARING.'.
**06.06.1994** Service defect: 'C - EXHAUST - SHORT EXHAUST BELLOWS CHANGED.'.
**06.06.1994** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - TWO SANDING VALVES A END CHANGED.'.
**07.10.1994** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - OIL PIPES TO TURBO CHARGER REPLACED.'.
**07.10.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDING GEAR REPAIRED - RH REAR.'.
**03.02.1995** Service defect: 'TW - NIL'.
**24.02.1995** Service defect: 'TW - NIL'.
**14.03.1995** Service defect: 'UN - NIL'.
**16.03.1995** Service defect: 'UN - NIL'.
**05.05.1995** Service defect: 'B - EARTH FAULT

MISCELLANEOUS - EARTH FAULT IN GOVERNOR PLUG - REPAIRED.'.

**05.05.1995** Service defect: 'B - ENGINE GOVERNOR ELECTRICAL - EARTH FAULT IN GOVERNOR - REPLACED.'.

**05.05.1995** Service defect: 'B - FUEL SYSTEM LINES - HOLE IN FUEL LINE - BRAISED.'.

**05.05.1995** Service defect: 'B - MECHANICAL EQUIPMENT - NO.2 NOSE SUSPENSION WEAR PLATE BROKEN - REPAIRED.'.

**05.05.1995** Service defect: 'B - OTHER BODY REPAIRS - HAND BASIN TEARING OFF - REPLACED.'.

**99.99.9999** Service defect: 'SW - NIL'.

### 852

Details: locomotive '852 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 70.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $173770
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L33
**Date Built:** 30.09.1963
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LSAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| SW Service Mileage: | 1363689 KM | SW Service Date: | 11.10.1995 |
| A Service Mileage: | 1367530 KM | A Service Date: | 26.03.1996 |
| B Service Mileage: | 1364668 KM | B Service Date: | 07.12.1995 |
| C Service Mileage: | 1371840 KM | C Service Date: | 29.06.1996 |
| E Service Mileage: | 1315136 KM | A Service Date: | 14.12.1993 |
| US Service Mileage: | 1387042 KM | A Service Date: | 28.11.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**06.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - NEW SET BATTERIES FITTED.'.

**13.11.1992** Repair 'VEHICLE RECLASSIFY'.

**13.11.1992** Issued at location 'Australian National' with a previous code of locomotive 'ALCO 852 B'

**14.12.1993** Service defect: 'E - ENGINE CYLINDER HEADS - ALL SIX CYLINDER HEADS REPLACED.'.

**14.12.1993** Service defect: 'E - ENGINE PISTON - CYLINDERS REMOVED AND INSPECTED OK. PISTON RINGS OK. A FEWRINGS UPSIDE DOWN. REMOVED AND PLACED IN CORRECT POSITION.'.

**17.01.1994** Service defect: 'SW - GENERAL - LOCO RELEASED AS TRAILING UNIT AFTER ALL REPAIRS WERE DONE TO COMPLY WITH P.T.U. 'TRAILING UNIT'ONLY REQUIREMENTS.'.

**07.02.1994** Service defect: 'SW - COOLING SYSTEM - COOLANT CHANGED.'.

**07.02.1994** Service defect: 'SW - EXHAUST - EXHAUST JOINT REPAIRED, NEW GASKET FITTED. TESTED OK.'.

**24.02.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - GF CONTACTOR REPLACED, A/C BLOWN COIL. CK1 & CK2 AUX CONTACTTIPS REPLACED, A/C SPRINGS U/S CAUSING N/C CONTACTS TO BE'.

**18.03.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - ALARM BELL REPAIRED.'.

**18.03.1994** Service defect: 'A - ENGINE - HOT ENGINE THERMOSTAT CHANGED AND SET TO 91 DEGREES.'.

**18.03.1994** Service defect: 'A - ENGINE CYLINDER HEADS - NO.2 HEAD CHANGED, A/C LEAKING WATER.'.

**18.03.1994** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER CHANGED.'.

**18.03.1994** Service defect: 'A - FUEL SYSTEM INJECTORS - NO.1 INJECTOR CHANGED, A/C FUEL LEAKING FROM EXTRACTOR JOINTAND HARD TO START.'.

**28.03.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - T/M'S CHECKED OK. MAIN GEN CHECKED OK. LOCO MEGGERED, FRONT PI=25MOHM. BACK PI=1.5MOHMS, A/C GR'S.'.

**28.03.1994** Service defect: 'UN - TRACTION MOTOR - T/M COVER REPLACED ON NO 6 T/M.'.

**11.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED, A/C CRACKED.'.

**21.05.1994** Service defect: 'UN - ENGINE - NO 2 INJECTOR AND FUEL PUMP REPLACED, CHECKED OK.'.

**06.06.1994** Service defect: 'B - BATTERY MAINTENANCE - BATTERY VOLTAGE CHECKED OK - 72V.'.

**06.06.1994** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED - IN= 72-01-1022. OUT= 09-82-22.'.

**06.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - DRIVERS SIDE SANDING FOOT SWITCH ADJUSTED.'.

**01.07.1994** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B'END 'MU' RECEPTACLE REPLACED, A/C SMASHED. STATIC TESTED OK.'.

**99.99.9999** Service defect: 'UN - JUMPING AWAY IN NOTCH 1.'.

### 853

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### 854

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### 859

Details: locomotive '859 Q' in AN 'Mainland Division'.

**Owner:** AN

**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $173770
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-6
**Date Built:** 01.01.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 31.01.1997 | | |
| SW Service Mileage: | 1543196 KM | SW Service Date: | 04.09.1995 |
| A Service Mileage: | 1569677 KM | A Service Date: | 31.01.1997 |
| B Service Mileage: | 1549269 KM | B Service Date: | 10.01.1996 |
| C Service Mileage: | 1527611 KM | C Service Date: | 03.02.1995 |
| D Service Mileage: | 1506230 KM | D Service Date: | 26.07.1993 |
| F Service Mileage: | 1563704 KM | A Service Date: | 30.09.1996 |
| WT Service Mileage: | 1514414 KM | WT Service Date: | 18.01.1994 |
| US Service Mileage: | 1566084 KM | A Service Date: | 18.11.1996 |

**07.12.1989** Service defect: 'SW - AIR CONDITIONING - AIR/COND.UNIT - INSTALLED.'.
**07.12.1989** Service defect: 'SW - AUXILLARY MACHINES - W/COOLER - INSTALLED.'.
**07.12.1989** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - WIRING - JUMP/START SOCKET INSTALLED. - 'B'END CONTROLLER REMOVED.'.
**07.12.1989** Service defect: 'SW - OTHER BODY REPAIRS - MODIFICATIONS - A.F.U.L.E.CAB MODS.COMPLETED.'.
**03.01.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES LOW - RE-CHARGED A/C JUMP/STARTED SEVERAL TIMES.'.
**12.01.1990** Service defect: 'UN - AIR CONDITIONING - SPLIT BELTS - AIR/COND.BELTS REPLACED.'.
**12.01.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOW VOLTAGE - FULL SET OF NEW APOLLO BATTERIES INSTALLED.'.
**30.01.1990** Service defect: 'UN - AIR CONDITIONING - - HIGH/PRESSURE SWITCH RE-SET. - GAS ADDED TO SYSTEM,UNIT OPERATING OK.'.
**30.01.1990** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - AIR/COND.CONDENSOR FAN MOTOR REPLACED. - (ORIGINAL MOTOR BURNT/OUT)'.
**25.02.1990** Service defect: 'UN - BOGIE - BRAKE ADJUST - 14 BRAKE BLOCKS CHANGED & BRAKES ADJUSTED.'.
**21.01.1991** Service defect: 'UN - GENERAL ACCIDENT - HAND RAILS & STEPS REPAIRED.'.
**23.01.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER CHANGED (L.H. # 1) A/C COLLISION.'.
**31.01.1991** Service defect: 'UN - AUXILLARY MACHINES - AIR COND - REGASSED.'.
**01.03.1991** Service defect: 'UN - BOGIE - EXCESS TRAVEL - NEW BLOCKS FITTED & BRAKES ADJUSTED.'.
**01.03.1991** Service defect: 'UN - OTHER BODY REPAIRS - MIRROR U/S - D/SIDE MIRROR REPLACED.'.
**24.04.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - T/MOTOR BLOWER FAN REPLACED.(DISINTERGRATED) - DEBRIS REMOVED FROM T/MOTOR DUCTING & T/MOTORS.'.
**22.07.1993** Service defect: 'SW - BATTERY MAINTENANCE - BATTERIES WASHED OUT.'.
**22.07.1993** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL - CONTROL BREAKER TRIPPING,MEGGERED OK ON CONTROL - 150KOHMS.'.
**22.07.1993** Service defect: 'SW - GENERAL - ALL JOBS IN LOG BOOK COMPLETED.'.
**22.07.1993** Service defect: 'SW - OTHER BODY REPAIRS - BODY WASHED.'.
**26.07.1993** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L2 & L4 WICKS & OIL CHANGED.'.
**26.07.1993** Service defect: 'D - ENGINE - VICTAULIC REPLACED, A/C LEAKING.'.
**26.07.1993** Service defect: 'D - D/SIDE VIG GAUGE TO CHANGE, A/C NIL STOCK. SHORT'.
**26.07.1993** Service defect: 'D - EXHAUST CONNECTOR LEAKING. AIR CON TO MONITOR.26/7'.
**28.07.1993** Service defect: 'UN - GENERAL - SERVICE WATER TANK REPAIRED.'.
**13.08.1993** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED A/C BLOWN.'.
**26.08.1993** Service defect: 'UN - COOLING SYSTEM - ENGINE COOLANT CHANGED.'.
**26.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - TACTION MOTOR BLOWER 'B'END NOISY. BLOWER GREASED AND THE BEARING CHECKED OK.'.
**26.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED, OLD KNUCKLE USED.'.
**15.10.1993** Service defect: 'A - BOGIE - 4 SLACK ADJUSTERS CHANGED.'.
**15.10.1993** Service defect: 'A - TRACTION MOTOR - 'B'END T/M BLOWER BELTS ADJUSTED.'.
**10.01.1994** Service defect: 'C - ENGINE - NO.5 CYLINDER LINER REPLACED AND NEW RINGS FITTED. ORIGINALLINER CRACKED.'.
**10.01.1994** Service defect: 'C - FUEL SYSTEM - FUEL LEAK ON FUEL RACKS, TURBO END REPAIRED.'.
**10.01.1994** Service defect: 'C - GENERAL - AUX. GEN. BELTS REPLACED.'.
**10.01.1994** Service defect: 'C - MECHANICAL MAINTENANCE - SOUND WARNING - LONG HORN 'A'END REPLACED, A/C FOUND MISSING.'.
**19.01.1994** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED. BATTERY BOX WASHED OUT.'.
**20.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PILOT AIR VALVE LEAKING. SEALS REPLACED.'.
**18.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION DAMAGE - COWCATCHER REPAIRED,WIRING REPAIRED'.
**04.06.1994** Service defect: 'A - FUEL SYSTEM - D/S FUEL GAUGE GASKET CHANGED, A/C LEAKING.'.
**04.06.1994** Service defect: 'A - FUEL SYSTEM - OIL LEAK REPAIRED.'.
**04.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT - HANDBRAKE REPLACED EX 841.'.
**04.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDERS CLEARED AND SAND HOSES REPLACED.'.

**04.06.1994** Service defect: 'A - OTHER BODY REPAIRS - BODY SECTION REPAIRED WHERE TORN AWAY. NON SLIP MATERIAL FITTED TO STEPS. COW CATCHER PAINTED.'.

**860**

Details: locomotive '860 M' in AN 'Tasmania Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $169790
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L33
**Date Built:** 01.01.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** W/O 01.04.89
**BSG Code:** LTAS

| | | | |
|---|---|---|---|
| Return to Service Date: | 05.01.1981 | | |
| D Service Mileage: | 890475 KM | D Service Date: | 12.05.1988 |

**861**

Details: locomotive '861 V' in AN 'Tasmania Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $201340
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L33
**Date Built:** 07.06.1963
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** W/O 01.04.89
**BSG Code:** LTAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 19.04.1984 | | |
| Last Lift: | 29.03.1984 | | |
| B Service Mileage: | 868802 KM | B Service Date: | 15.12.1987 |

**863**

Details: locomotive '863 Q' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $201340
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 28.06.1963
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LSAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 25.03.1997 | | |
| Last Lift: | 19.12.1986 | | |
| SW Service Mileage: | 1509885 KM | SW Service Date: | 20.12.1995 |
| A Service Mileage: | 1557787 KM | A Service Date: | 25.03.1997 |
| B Service Mileage: | 1534218 KM | B Service Date: | 11.12.1996 |
| C Service Mileage: | 1519901 KM | C Service Date: | 24.05.1996 |
| D Service Mileage: | 1500474 KM | D Service Date: | 30.10.1995 |
| E Service Mileage: | 1424877 KM | A Service Date: | 10.12.1992 |
| WT Service Mileage: | 1380903 KM | WT Service Date: | 26.03.1991 |
| US Service Mileage: | 1551784 KM | A Service Date: | 28.02.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**07.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - FULL BATTERY CHANGE.'.
**22.01.1990** Service defect: 'SW - AIRCON.MODS.'.
**23.03.1990** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONER FITTED & COMMISSIONED. SPLIT AIR CONDITIONERPULLEY FITTED & COVER MODIFIED.'.
**23.03.1990** Service defect: 'SW - FUEL SYSTEM - FUEL TANK LEAK REPAIRED.'.
**23.03.1990** Service defect: 'SW - OTHER BODY REPAIRS - CABIN UPGRADE COMPLETED.'.
**23.03.1990** Service defect: 'SW - VIGILANCE - ELECTRIC VIGILANCE FITTED.(W-132AD)'.
**12.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION REPAIRS - COMPLETED.'.
**15.05.1990** Service defect: 'UN - AUXILLARY MACHINES - EXCITER CHANGED.'.
**15.05.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION SET UP.'.
**26.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - COMPRESSOR MAGNET VALVE REPLACED A/C NOT UNLOADING'.
**26.07.1990** Service defect: 'UN - WHEELSLIP - RESISTOR OPEN CIRCUITED REPLACED'.
**23.08.1990** Service defect: 'TW - COOLING SYSTEM - ELBOW BLOCK TO HEAD ALL 6 GASKETS REPLACED ON BLOCK END'.
**11.01.1991** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - NEW NO 13 WIRE PLACED ON SIGNAL WIRE FEED FROM TERMINAL BOARD TO GROUND RELAY A/C OPEN CIRCUIT..'.
**21.02.1991** Service defect: 'TW - BOGIE - 3 BAGS OF CRATER ADDED TO ALL GEAR CASES EXCEPT NO 4'.
**26.03.1991** Service defect: 'WT - SAND PIPES TO BE FITTED A/C REMOVED FOR TURNING.'.
**19.04.1991** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - RECODND EDDY CURRENT

BRUSH HOLDER FITTED & NEW BRUSHES'.

**16.07.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GENERATOR CLEANED UP AND PAINTED'.

**13.05.1992** Service defect: 'SW - BATTERY MAINTENANCE - BATTS CHARGED UP OK,A/C LOW.'.

**13.05.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 4 WHEELSET REPLACED,A/C CONDEMNED.'.

**20.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHARGE ADJUSTED TO 71.6.'.

**20.05.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - COUPLER LIGHT SWITCH REPLACED,CHECKED OK.'.

**20.05.1992** Service defect: 'UN - GENERAL - SERVICE WATER TANK REPLACED.'.

**10.12.1992** Service defect: 'E - BOGIE MAINTENANCE - WICKS - ALL WICKS CHANGED EXCEPT NO 5 T/M A/C T/M CHANGE.'.

**10.12.1992** Service defect: 'E - ELECTRICAL MAINTENANCE -WIRING - SIGNAL RELAY WIRING REPAIRED, A/C INSULATION FALLING OFF.'.

**10.12.1992** Service defect: 'E - MAIN GENERATOR - ALL BRUSHES REPLACED ON MAIN GEN.'.

**10.12.1992** Service defect: 'E - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C ARMATURE TO EARTH.'.

**16.12.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY REPLACED RHS BOTTOM, A/C DEAD CELL. LOCO PLACED ON CHARGER OK.'.

**16.12.1992** Service defect: 'UN - GENERAL - LOG BOOK REPAIRS COMPLETED.'.

**09.02.1993** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED A/C LEAKING FROM TELL TAIL'.

**29.07.1993** Service defect: 'SW - BOGIE - NEW BOGIES FITTED, LOCO TESTED IN POWER, OKAY.'.

**19.08.1993** Service defect: 'B - EARTH FAULT MISCELLANEOUS - CONTROL EARTH TRACED TO COMMPRESSOR GOV. MAGNET VALVE. MAGNET VALVE REPLACED. EDDY CURRENT CLUTCH TO MONITOR.'.

**19.08.1993** Service defect: 'B - ENGINE - MARMON COUPLING IN FAN COMPARTMENT TIGHTENED A/C LEAKING.'.

**19.08.1993** Service defect: 'B - EARTH ON CONTROL TRACED TO EDDY CURRENT CLUTCH TO'.

**19.08.1993** Service defect: 'B - BE MONITORED, MAY BE MOISTURE.19/8/93.'.

**17.11.1993** Service defect: 'A - BATTERY MAINTENANCE - BATTERIES CELL TESTED OK.'.

**17.11.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3,R5 & L5 WICKS CHANGED.'.

**17.11.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - GF CONTACTS CHANGED, A/C BURNT CONTACTS.'.

**17.11.1993** Service defect: 'A - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHECKED OK.'.

**17.11.1993** Service defect: 'A - BOTH PACKAGES TO CHANGE, A/C U/S.17/11.'.

**23.11.1993** Service defect: 'SW - ENGINE - CHECKED GOV FUEL PUMP & TIMING SETTINGS OK.'.

**23.11.1993** Service defect: 'SW - NO FAULT FOUND - LOW POWER BOOKINGS - NO FAULT FOUND IN LOW POWER AREA.'.

**10.12.1993** Service defect: 'UN - TRACTION MOTOR EARTH - NO.2 T/M CHANGED A/C EARTH ON INTERPOLE.'.

**17.02.1994** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L2 AND R5 WICKS REPLACED.'.

**17.02.1994** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED RHS HEATER SWITCH, A/C U/S.'.

**17.02.1994** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - H.P. PIPE REPLACED ON COMPRESSOR.'.

**17.02.1994** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - R3 SANDER BRACKET REPAIRED.'.

**17.02.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - L3 BRAKE CYL LEAK REPAIRED.'.

**24.05.1994** Service defect: 'A - TRACTION MOTOR - T/M BLOWER BELTS REPLACED AND SPARES PUT IN PLACE.'.

### 865

Details: locomotive '865 L' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $169790
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CN L-10
**Date Built:** 01.01.1962
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LEAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 13.06.1995 | | |
| SW Service Mileage: | 299468 KM | SW Service Date: | 30.06.1992 |
| A Service Mileage: | 425109 KM | A Service Date: | 08.09.1994 |
| B Service Mileage: | 404823 KM | B Service Date: | 12.06.1994 |
| C Service Mileage: | 336415 KM | C Service Date: | 01.07.1993 |
| E Service Mileage: | 455063 KM | A Service Date: | 13.06.1995 |
| US Service Mileage: | 371270 KM | A Service Date: | 04.02.1994 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**12.02.1991** Service defect: 'SW - B END COUPLING TO MONITOR.FAN&HEATERS TO WIRE UP.'.

**12.02.1991** Service defect: 'SW - TOILET QUICK SHUT VALVE TO CHANGE.ALUMINIUM WINDOW'.

**12.02.1991** Service defect: 'SW - S TO BE FITTED TO CAB.'.

**14.02.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - CAB FANS & HEATERS WIRING MOD COMPLETED.'.

**14.02.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - FRIDGE FILTERS REPLACED.'.

**14.02.1991** Service defect: 'SW - B END COUPLING TO MONITOR.TOILET QUICK SHUT VALVE'.
**14.02.1991** Service defect: 'SW - TO CHANGE.ALUMINIUM WINDOWS TO BE FITTED TO CAB..'.
**13.06.1991** Service defect: 'SW - OTHER BODY REPAIRS - SEAT HEIGHT ADJUSTERS REPAIRED BOTH SEATS.'.
**13.06.1991** Service defect: 'SW - VIGILANCE - GASKETS REPLACED DOUBLE CHECK VALVE.'.
**27.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RHS TOP BATTERY CHANGED.'.
**16.09.1991** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - EXTERNAL AIR FEED MOD FITTED TO TURBO.'.
**22.10.1991** Service defect: 'SW - OTHER BODY REPAIRS - ALUMINIUM SIDE WINDOWS FITTED TO CAB.'.
**22.10.1991** Service defect: 'SW - B END COUPLING TO MONITOR.TOILET QUICK SHUT VALVE'.
**22.10.1991** Service defect: 'SW - TO CHANGE.'.
**02.01.1992** Service defect: 'TW - BOGIE - NO 5 NOSE SUSPENSION WEAR PLATE REPLACED.'.
**01.05.1992** Service defect: 'TW - OTHER BODY REPAIRS - DOOR LATCH REPAIRED'.
**03.06.1992** Service defect: 'SW - COOLING SYSTEM RADIATOR - VICTAULIC JOINT REPAIRED RADIATOR PIPE.'.
**30.06.1992** Service defect: 'SW - BATTERY MAINTENANCE - L/H/S TOP INSIDE BATTERY CHANGED.'.
**19.03.1993** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - WHEELS CHANGED -OUT OF GAUGE.'.
**21.04.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - ONE WICK REPLACED'.
**21.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - BROKEN MIRROR REPLACED'.
**11.05.1993** Service defect: 'TW - MAIN GENERATOR - COPPER DRAG AND CARBON BUILD-UP REMOVED FROM MAIN GENERATOR'.
**24.05.1993** Service defect: 'TW - COOLING SYSTEM RADIATOR - DRESSER LEAKING FROM RADIATOR - REDRESSED.'.
**24.05.1993** Service defect: 'TW - FUEL SYSTEM LINES - TWO FUEL LINES LEAKING - REPLACED.'.
**24.05.1993** Service defect: 'TW - OTHER BODY REPAIRS - AIR RIDE SEATS REMOVED AND REPLACED WITH NEW BREMSHEY TYPE.'.
**08.06.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BARETTA TUBE BLOWN - RENEWED.'.
**09.06.1993** Service defect: 'TW - ADJUST BRAKES - ALL BRAKES ADJUSTED'.
**09.06.1993** Service defect: 'TW - COOLING SYSTEM - WATER LEAKING FROM SMALL DRESSER - TIGHTENED LEAK STOPPED.'.
**09.06.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS BURNT WIRING - HOOD LIGHT WIRING BURNT AND SHORTING - REPAIRED'.
**01.07.1993** Service defect: 'C - COOLING WATER - COOLANT WATER TO FLUSH OUT - FLUSHED AND REFILLED WITH'.
**01.07.1993** Service defect: 'C - ENGINE PROTECTION - CRANK CASE EXHAUSTER MOTOR BRUSH WITH BROKEN SPRING - BRUSH REPLACED.'.
**01.07.1993** Service defect: 'C - FAN CONTACTORS - RADIATOR FAN CONTACTOR (LOW) NOT WORKING REPLACED CONTACTOR - COIL OPEN CIRCUIT.'.
**01.07.1993** Service defect: 'C - FUEL SYSTEM LINES - FUEL INJECTOR LINE TO #3 LEAKING - CHANGED.'.
**01.07.1993** Service defect: 'C - GAUGES - BP/BC GAUGE READING 7LBS LOW - CHANGED'.
**01.07.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - LHS INDEPENDENT BRAKE VALVE WORKING INCORRECTLY - CHANGED.'.
**01.07.1993** Service defect: 'C - PILOT LIGHTS - BRAKE CYLINDER PRESSURE LIGHTS NOT WORKING - LAMPS MISSING FROM HOLDERS - LAMPS RENEWED.'.
**01.07.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - 25 BRUSHES CHANGED.'.
**01.07.1993** Service defect: 'C - WHEELSLIP - WHEELSLIP RELAY CONTACTS CLEANED.'.
**02.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDING PIPE BLOCKED - CLEARED.'.
**03.09.1993** Service defect: 'CA - ENGINE WATER LEAK - GASKET TO #6 HEAD SEVERE LEAK - REPAIRED.'.
**26.11.1993** Service defect: 'TW - BATTERY MAINTENANCE - TWO BATTERIES CHANGED TOP RIGHT.'.
**26.11.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - WIRE 3A FROM ELECTRICAL CABINET TO ENGINE GOVERNOR SOCKET OPEN CIRCUIT - REPLACED.'.
**17.12.1993** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTOR #6 EARTH FAULT - REPLACED.'.
**19.01.1994** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTORS # 5 & 6 INTERPOLS TO EARTH.'.
**20.01.1994** Service defect: 'A - MAIN GENERATOR - 27 BRUSHES CHANGED.'.
**20.01.1994** Service defect: 'A - MECHANICAL EQUIPMENT - FRONT TRACTION MOTOR BLOWER BELTS TIGHTEND.'.
**20.01.1994** Service defect: 'A - OTHER BODY REPAIRS - MIRROR RHS RENEWED.'.
**04.02.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - LOOM TO REAR TERMINAL BOARD REPLACED - EARTH FAULTS AND SHORTS DUE TO ROTTEN INSULATION.'.
**12.06.1994** Service defect: 'B - BLOCKED FILTERS - TURBO AIR FEED FILTER CLEANED OUT.'.
**12.06.1994** Service defect: 'B - ELECT - RECEPTACLES/INTER CAR COUPLINGS - B END NUMBER 4 TERMINAL REPLACED.'.
**12.06.1994** Service defect: 'B - ELECTRICAL GENERAL - B END RHS STEP LIGHT HOLDER REPLACED.'.
**12.06.1994** Service defect: 'B - MAIN GENERATOR - COPPER DRAG MAIN GEN REMOVED.'.
**12.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT - MAIN RES SAFETY VALVE CHANGED.'.
**12.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE VALVE CLEANED B END RHS.'.
**12.06.1994** Service defect: 'B - TRACTION MOTOR - COPPER DRAG TRACTION MOTORS REMOVED.'.
**08.09.1994** Service defect: 'A - ELECTRICAL GENERAL - SPEEDO RESISTOR REPLACED AND ODOMETER ADJUSTED.'.
**08.09.1994** Service defect: 'A - EXHAUST - EXHAUST STACK STRAINER REPLACED.'.
**06.02.1995** Service defect: 'TW - NIL'.
**03.05.1995** Service defect: 'TW - CARBODY FILTERS - BODY FILTERS CHANGED.'.
**03.05.1995** Service defect: 'TW - ELECTRICAL

MISCELLANEOUS - CATCH WELDED ON TO TRACTION MOTOR.'.

**03.05.1995** Service defect: 'TW - ENGINE AIR FILTERS - ENGINE AIR FILTERS CHANGED.'.

**03.05.1995** Service defect: 'TW - OTHER BODY REPAIRS - SUMP UNDER MAIN GENERATOR CLEANED.'.

**99.99.9999** Service defect: 'SW - NIL'.

### 866

**16.11.1989** Service defect: 'B - AUXILLARY MACHINES - (3)AUX.GEN.BRUSHES REPL.& (2)FUEL PUMP MOTOR BRUSHES REPL.'.

**16.11.1989** Service defect: 'B - GENERAL - *SPEEDO READ 761024 K/M ON LOCO.'.

**16.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WIPER REPAIRED.'.

**16.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL.& ALL BRAKES ADJ.'.

**16.11.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.

### 868

Details: locomotive '868 P' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $214810
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 07.11.1969
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LSAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 20.04.1996 | | |
| Last Lift: | 15.08.1986 | | |
| SW Service Mileage: | 1047169 KM | SW Service Date: | 20.04.1996 |
| A Service Mileage: | 1045612 KM | A Service Date: | 08.06.1995 |
| B Service Mileage: | 1039956 KM | B Service Date: | 08.03.1995 |
| C Service Mileage: | 1030432 KM | C Service Date: | 20.04.1994 |
| D Service Mileage: | 816535 KM | D Service Date: | 03.12.1987 |
| E Service Mileage: | 1007650 KM | A Service Date: | 07.05.1993 |
| WT Service Mileage: | 1002355 KM | WT Service Date: | 11.03.1993 |
| US Service Mileage: | 1038234 KM | A Service Date: | 16.02.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**28.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE VALVE ACTUATING SHAFT LUBRICATED.'.

**14.09.1989** Service defect: 'UN - EXHAUST - NO4,5,6 EXHAUST GASKETS REPLACED.'.

**14.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE PRESSURE ADJUSTED TO 45LB.'.

**19.12.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R4,R5 WICKS REPLACED.L5 OIL DRAINED A/C DIRTY.'.

**19.12.1989** Service defect: 'A - CONTACTOR EP VALVES - P1 EP VALVE CHANGED.'.

**20.12.1989** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - POWER AUXILARIES CLEANED.SWITCH ON TR REPAIRED A/C NOT OPERATING.'.

**14.02.1990** Service defect: 'UN - DRIVE BELT - TRACTION MOTOR BLOWER BELTS 'A' END TIGHTENED'.

**14.02.1990** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LINE TO PRESSURE GAUGE REPAIRED'.

**05.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE SHOE REPLACED.BRAKE CUT BACK IN & CHECKED OK.'.

**21.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES BOOKED FAULTY.CHECKED OK IN DEPOT.'.

**05.04.1990** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.

**11.04.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN CHANGED.'.

**20.04.1990** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED. EXHAUST STACK REPAIRED.'.

**30.04.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO2 INJECTOR & HIGH PRESSURE FUEL LINE REPLACED.PUMP TIMING ADJUSTED.'.

**15.05.1990** Service defect: 'TS - LUBRICATING SYSTEM - OIL LEAKS REPAIRED.OIL DRAIN REPAIRED.'.

**15.05.1990** Service defect: 'TS - TRACTION MOTOR - NO 5 TM CHANGED A/C FLATS & OIL ON COMM.(IN 191 OUT 270637).'.

**18.05.1990** Service defect: 'UN - GENERAL - DRIVERS SIDE SEAT REPAIRED.'.

**31.05.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C DILUTION.'.

**05.07.1990** Service defect: 'C - FUEL SYSTEM INJECTORS - INJECTORS CHANGED.'.

**17.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TWO PORT VALVE REPLACED A/C NO AUTO BRAKE APPLICATION.'.

**13.09.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - NO4 CYLINDER HEAD CHANGED.'.

**11.10.1990** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - RT1 REPLACED A/C NO INCREASE IN NOTCH 8 REVS.'.

**12.10.1990** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP MOTOR CHANGED.PIPES TO FUEL PUMP REPAIRED A/C WORNTHROUGH.'.

**21.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LOCO BRAKE TESTED.WORK OK AS SIGLE UNIT ONLY..'.

**21.11.1990** Service defect: 'SW - AIR IN NO3 CONTROL PIPE NOT RELEASING WHEN LOCO'.

**21.11.1990** Service defect: 'SW - COUPLED TO OTHER UNITS.G HAYWARD TO MODIFY BRAKE'.

**21.11.1990** Service defect: 'SW - SYSTEM.'.

**26.02.1991** Service defect: 'UN - FUEL SYSTEM LINES - BROKEN PIPE - NO.1 FUEL DELIVERY PIPE REPLACED.'.

**05.03.1991** Service defect: 'UN - GENERAL - LHS SEAT

REPAIRED,'.
**11.04.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - NO4 HEAD REPLACED,A/C CRACKED.'.
**16.04.1991** Service defect: 'UN - GENERAL - D/SIDE WINDOW REPLACED.'.
**16.04.1991** Service defect: 'UN - VIGILANCE - VIG REPAIRS COMPLETED.'.
**03.05.1991** Service defect: 'UN - FUEL SYSTEM - FUEL PRESSURE REGULATING VALVE (GOV END OF MOTOR) REPLACED- FUEL PRESSURE OK.24-26PSI NOTCH 8.'.
**03.05.1991** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP REMOVED,CHECKED & REPLACED,A/C FAULTY.'.
**03.05.1991** Service defect: 'UN - RADIO SPEAKER MISSING.'.
**07.05.1991** Service defect: 'UN - FUEL SYSTEM - FUEL PRESSURE ADJUSTED,A/C LOOSING PRESSURE UNDER LOAD.'.
**10.05.1991** Service defect: 'UN - FUEL SYSTEM - FILTERS & STRAINERS REPLACED.NEW FUEL PRESSURE VALVES FITTED'.
**10.05.1991** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LINES CLEANED.'.
**10.05.1991** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP REPLACED,A/C LOW FUEL PRESSURE-DROPS UNDER LOAD.'.
**14.06.1991** Service defect: 'UN - ENGINE - ENGINE SPEED FAULT REPAIRED.'.
**14.06.1991** Service defect: 'UN - GENERAL - OIL CLEANED FROM FOOTPLATE.'.
**14.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DRAINS ALTERED.'.
**14.06.1991** Service defect: 'UN - RADIO REPAIR - RADIO SPEAKER REPLACED & RESECURED.'.
**25.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CAM REPLACED & SHAFT TIGHTENED ON INDEPENDENT BRAKE VALVE. SELF LAP WORKING OK.'.
**02.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DAVIES METCALFE TESTED OK.'.
**15.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - APPLICATION VALVE CHANGED, TESTED OK AT MPC.'.
**13.08.1991** Service defect: 'UN - FUEL SYSTEM - FUEL GAUGE CLEANED.'.
**13.08.1991** Service defect: 'UN - GENERAL - OBS/SIDE SEAT REPAIRED.OBS/SIDE FOOT STEP 'A'END REPAIRED.'.
**13.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED EX 846.'.
**28.08.1991** Service defect: 'TS - NO FAULT FOUND - NO FAULT FOUND TURBO TO BE CHANGED AT 'E' SERVICE,A/C TIME LAPSE BETWEEN SERVICES.'.
**06.09.1991** Service defect: 'B - BOGIE MAINTENANCE - WICKS - 9 WICKS REPLACED.'.
**06.09.1991** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED.'.
**06.09.1991** Service defect: 'B - FUEL SYSTEM PUMP - FUEL PUMP CHECKED OK.'.
**06.09.1991** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV VALVE REPLACED.'.
**23.10.1991** Service defect: 'UN - GENERAL - SEAT REPAIRED.'.
**23.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES REPAIRED.'.
**16.12.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE REPLACED,A/C NO AUTO BRAKE.TESTED OK.'.
**27.01.1992** Service defect: 'SW - GENERAL - OBS SEAT REPLACED.'.
**03.02.1992** Service defect: 'UN - GENERAL - OBS S/DOOR WINDOW REPLACED,A/C SMASHED.'.
**02.03.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK AT WATER RAIL REPAIRED.'.
**02.03.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTORS CHANGED OK.'.
**11.03.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHANGED TESTED OK.'.
**26.03.1992** Service defect: 'A - EXHAUST - EXHAUST TIGHTENED.A/C LEAKING.'.
**26.03.1992** Service defect: 'A - WATER PUMP TO MONITOR.A/C SLIGHT DRIP.-ONE T/M'.
**26.03.1992** Service defect: 'A - BLOWER BELT MISSING.'.
**14.04.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES CHECKED OK IN DEPOT,NO FAULT FOUND.'.
**08.05.1992** Service defect: 'UN - BOGIE - BRAKE SLACK ADJUSTERS FREED UP A/C SEIZED'.
**08.05.1992** Service defect: 'UN - GENERAL - NEW SPEEDO FITTED A/C DEFECTIVE TIME CLOCK'.
**17.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TP & MR PIPES REPAIRED. AIR BRAKE CHECKED & OK'D FOR TRAFFICA/C ACUTE SHORTAGE OF SHUNTERS.'.
**17.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO BRUSH BARREL INSTALLED EX 846,A/C NIL SPARES.'.
**04.02.1993** Service defect: 'UN - GENERAL - ALL LOG BOOK REPAIRS COMPLETED.'.
**27.04.1993** Service defect: 'UN - EXHAUST - SHORT EXHAUST JOINT REPLACED, A/C SPLIT.'.
**07.05.1993** Service defect: 'E - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B'END RECEPTACLE REPLACED. 6 WIRES PUT IN CORRECT PINS,9, 10,11,12,13 & 14.'.
**07.05.1993** Service defect: 'E - ELECTRICAL MISCELLANEOUS - BRAKE CYL LIGHT,WHEELSLIP LIGHT CHECKED OK.'.
**07.05.1993** Service defect: 'E - ENGINE - CRANKCASE EXHAUSTER REPLACED.'.
**07.05.1993** Service defect: 'E - NO 3 FUEL PUMP CASING BROKEN.7/5.'.
**13.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - B.C.P. ONLY 38PSI,ADJUSTED TO 42PSI. LOCO RELEASED TO TRAFFIC.'.
**08.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ARC CHUTES CHANGED OUT,A/C ASBESTOS.'.
**08.06.1993** Service defect: 'UN - GENERAL - DRIVERS SEAT REPAIRED.'.
**08.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - EQUALISING PRESSURE GAUGE CHANGED,A/C EQUALISING PRESSURE ONLY 55PSI.'.
**05.08.1993** Service defect: 'A - EXHAUST - EXHAUST MANIFOLD TIGHTENED.'.
**05.08.1993** Service defect: 'A - FUEL SYSTEM - FUEL STRAINER CLEANED.'.

**05.08.1993** Service defect: 'A - GENERAL - DRIVERS SEAT BACK REST REPAIRED.'.
**23.09.1993** Service defect: 'UN - ENGINE WATER LEAK - WATER JUMPER TO RAIL GASKETS REPLACED, A/C LEAKING. CHECKED OK.'.
**23.09.1993** Service defect: 'UN - GENERAL - OBS/SEAT CHANGED.'.
**13.10.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - DRIVERS SIDE RADIATOR REPLACED. HEADER TANK LEAK REPAIRED.'.
**13.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE REPAIRS COMPLETED. AIR NOT DROPPING IN EMERGENCYAPPLICATION.'.
**04.11.1993** Service defect: 'B - BOGIE - R1 &L1 SLACK ADJUSTERS CHANGED, A/C SEIZED.'.
**04.11.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - FULL WICK CHANGE, A/C DIRTY. ALL BEARING OILS CHANGED.'.
**04.11.1993** Service defect: 'B - COOLING SYSTEM - GASKETS ON NO 3 BRANCH PIPE (WATER) CHANGED. WATER SIGHT GLASS REPAIRED. WATER LEAK REPAIRED.'.
**04.11.1993** Service defect: 'B - FUEL SYSTEM PUMP - NO'S 5 & 6 FUEL PUMPS CHANGED, TIMING CHECKED OK.'.
**04.11.1993** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CHANGED.'.
**04.11.1993** Service defect: 'B - TRACTION MOTOR - 'B'END T/M BLOWER BELTS CHANGED.'.
**04.02.1994** Service defect: 'A - BOGIE - BOGIES DISCONNECTED AND BOGIE FRAME WELDED UP. BOGIES RECONNECTED.'.
**04.02.1994** Service defect: 'A - ENGINE - NO 6 PUMP RACK MECHANISM REPAIRED, A/C STICKING.'.
**04.02.1994** Service defect: 'A - GENERAL - LOG BOOK REPAIRS COMPLETED. LHS 'B'END WIPER REPAIRED.'.
**24.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE FAULT REPAIRED.'.
**20.04.1994** Service defect: 'C - BOGIE - NUMEROUS GEAR CASE BOLTS TIGHTENED.'.
**20.04.1994** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R5,R6 AND L4 WICKS CHANGED. ALL WICK OIL CHANGED.'.
**20.04.1994** Service defect: 'C - FUEL SYSTEM - FUEL TANK BOLTS TIGHTENED.'.
**18.05.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE VALVES REPLACED. 70LB FEED VALVE REPLACED FAN CONTROL AIR. NO BRAKE CYLINDER PRESSURE WHEN MINIMUM REDUCTION MADE,'.
**22.06.1994** Service defect: 'UN - GENERAL - BRAKE ROD REPAIRED,KETTLE CORD REPLACED A/C BURNT OUT.'.
**01.07.1994** Service defect: 'UN - BOGIE - BROKEN BRAKE ROD REPAIRED AND CHECKED OK'.
**12.08.1994** Service defect: 'UN - BOGIE - CHANGE BRAKE BLOCKS AND ADJUST COMPLETED OK'.
**12.08.1994** Service defect: 'UN - GENERAL - SPEEDO CHART CHANGED OK'.
**22.08.1994** Service defect: 'TS - BOGIE - BOGIES CHECKED FOLLOWING DERAILMENT OK'.

**869**

Details: locomotive '869 B' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $214810
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 01.01.1970
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LEAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 17.01.1996 | | |
| SW Service Mileage: | 257247 KM | SW Service Date: | 29.10.1992 |
| A Service Mileage: | 343157 KM | A Service Date: | 19.07.1994 |
| B Service Mileage: | 318208 KM | B Service Date: | 29.03.1994 |
| C Service Mileage: | 255888 KM | C Service Date: | 02.09.1992 |
| D Service Mileage: | 115820 KM | D Service Date: | 20.10.1988 |
| E Service Mileage: | 213059 KM | A Service Date: | 13.02.1991 |
| WT Service Mileage: | 335564 KM | WT Service Date: | 17.06.1994 |
| US Service Mileage: | 378956 KM | A Service Date: | 02.11.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**31.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - ISOLATION SWITCH REPLACED.'.
**23.01.1990** Service defect: 'UN - LUBRICATING SYSTEM - HOSE FROM OIL PUMP CHANGED.ENGINE OIL CHANGED.'.
**28.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE VALVE CHANGED.50 REDUCING VALVE CHANGED.'.
**26.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END AUTO COUPLER CHANGED.'.
**26.06.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - OIL PRESSURE SWITCH REPLACED'.
**26.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - FAST COUPLING BETWEEN MOTOR & COMPRESSOR LUBRICATED.'.
**29.07.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2,L3,L4 WICKS REPLACED.'.
**29.07.1990** Service defect: 'A - CAB FLOOR REPAIRS.'.
**07.08.1990** Service defect: 'UN - CAB FLOORS TO REPLACE AT ISL WKS.'.
**17.08.1990** Service defect: 'SW - OTHER BODY REPAIRS - CABIN FLOOR REPLACED AS REQUIRED, & NEW LINO FITTED. LOCO THEN DISPATCHED TO MEDD 1545 HRS 17/08'.
**20.08.1990** Service defect: 'UN - BOGIE - BOGIES REFITTED.'.
**04.12.1990** Service defect: 'UN - CAN ONLY DRIVE FROM L.H.S.A/C R.H.S. BRAKE FAULTY.'.

**15.01.1991** Service defect: 'UN - OTHER BODY REPAIRS - ELECTRICAL CABINET DOOR REPAIRED'.
**13.02.1991** Service defect: 'E - BATTERY MAINTENANCE - TWO BATTERIES CHANGED A/C CRACKED'.
**13.02.1991** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER NOT CHANGED A/C NIL STOCK'.
**13.02.1991** Service defect: 'E - EXHAUST - ALL EXHAUST BOLTS TIGHTENED'.
**13.02.1991** Service defect: 'E - FUEL SYSTEM INJECTORS - INJECTORS NOT CHANGED A/C NIL STOCK'.
**13.02.1991** Service defect: 'E - MECHANICAL EQUIPMENT - FRONT TM BLOWER BELTS TIGHTENED'.
**13.02.1991** Service defect: 'E - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE VALVES NOT CHANGED A/C NIL STOCK'.
**13.02.1991** Service defect: 'E - MECHANICAL MAINTENANCE - AIR BRAKE - 'B' TRAIN PIPE HOSE REPLACED'.
**13.02.1991** Service defect: 'E - SPEEDO LIGHT TO REPAIR'.
**13.02.1991** Service defect: 'E - HANDLAMP REQUIRED'.
**06.05.1991** Service defect: 'UN - GENERAL - OBS/SIDE WINDSCREEN IN DOOR REPLACED,L/H SIDE MIRROR REPLACED,WIPER BLADE REPLACED,WIPER ARM REPLACED,SUNSHADE'.
**07.05.1991** Service defect: 'UN - NO FAULT FOUND - CHECKED OK IN DEPOT,A/C NOT PULLING AMPS.'.
**11.07.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE - REVERSER - REVERSER REPAIRED, A/C FLASHED.'.
**11.07.1991** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED & UNDERCUT, A/C FLASHED.'.
**11.07.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO'S 3 &4 T/MOTORS CLEANED, A/C FLASHED.'.
**16.08.1991** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**16.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO LIGHT REPAIRED.'.
**16.08.1991** Service defect: 'UN - GENERAL - 'A' END RIGHT WINDSCREEN WIPER REPAIRED,'B'END LEFT WINDSCREEN WIPER REPAIRED.ALL OTHER AFULE REPS COMPLETED.'.
**16.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTOMATIC BRAKE HANDLE REPAIRED.HANDBRAKE REPAIRED.'.
**17.09.1991** Service defect: 'A - BOGIE - COLLISION DAMAGE - L/H NO.4 BRK/CYLINDER REPLACED.'.
**22.11.1991** Service defect: 'UN - GENERAL - DERAILMENT INSPCETION OK.'.
**22.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE REPAIRED.BRAKES ADJUSTED.'.
**26.03.1992** Service defect: 'UN - BOGIE - CRACK IN NO.6 T/M GEARCASE WELDED.'.
**26.03.1992** Service defect: 'UN - OTHER BODY REPAIRS - SEATS REPAIRED.'.
**28.04.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER WIRE EARTH CLEARED. BRAKE CYLINDER LIGHT EARTH CLEARED. CRANKCASE EXH. MOTOR REPLACED.'.
**28.04.1992** Service defect: 'UN - WHEELSLIP - WHEELSLIP RELAY CONTACTS CHECKED OK.'.
**01.05.1992** Service defect: 'UN - REVERSER - REVERSER REPAIRED AND TESTED.OK.'.
**13.05.1992** Service defect: 'UN - BOGIE - L1 BOGIE SPRINGS + DERAILMENT REPAIRS COMPLETED.'.
**10.07.1992** Service defect: 'SW - MANUAL SPEED CONTROL,CONNECT T/MOTORS,RE-ATTACH'.
**10.07.1992** Service defect: 'SW - STACK,FIT MIRROR PIECES TO BRACKETS,FIT HOSES AND'.
**10.07.1992** Service defect: 'SW - SANDER PIPES TO BOGIES,INSTALL SAFETY BRACKETS TO'.
**10.07.1992** Service defect: 'SW - UNDERFRAME:THESE JOBS DUE TO RESTICTIONS TRUCK.'.
**06.08.1992** Service defect: 'UN - BOGIE - BOGIES EX 851 FITTED.'.
**06.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - COMPRESSOR FAST COUPLING REPAIRED.'.
**02.09.1992** Service defect: 'C - FUEL SYSTEM PUMP - NO 2 FUEL PUMP CHANGED.'.
**02.09.1992** Service defect: 'SW - MAIN GENERATOR - MAIN & AUX GEN & EXCITER CLEANED THROUGHLY.'.
**02.09.1992** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - D & M T/P OVER CHARGE PLUNGER VALVE FREED.'.
**02.09.1992** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADER VALVES SERVICED.'.
**02.09.1992** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - COUPLER LIFTING PINS & ARMS MODIFIED.'.
**29.10.1992** Service defect: 'SW - ENGINE GOVERNOR MECHANICAL - GOVERNOR ADJUSTED ACC SHUTTING DOWN.'.
**29.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR REMOVED AND X-930 TYPE INSTALLED'.
**12.05.1993** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEAD LIGHT SWITCH NOT TURNING OFF - REPAIRED'.
**12.05.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - B END NUMBER LIGHT LAMP HOLDERS FULL OF DEBRIS NOT ALLOWING LAMP TO MAKE CONTACT - CLEANED OUT'.
**12.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - SOUND WARNING - WHISTLE CORD MOUNTING BRACKETS LOOSE ON OBSERVERS SIDE - TIGHTENED'.
**11.07.1993** Service defect: 'A - BATTERY MAINTENANCE - BATTERY RHSBR 5 VOLT POTENTIAL ONLY. REPLACED.'.
**11.07.1993** Service defect: 'A - DOOR CLOSERS - FOUR ELECTRICAL CABINET LATCHES REPAIRED.'.
**11.07.1993** Service defect: 'A - DOORS - ELECTRICAL CABINET SEALS COMING OFF - REGLUED.'.
**11.07.1993** Service defect: 'A - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDO NOT WORKING - BARRETTA TUBE REPLACED AND 280 MILES ADDED TO ODOMETER.'.
**11.07.1993** Service defect: 'A - EXHAUST - TOP EXHAUST CONNECTOR LEAKING - REPLACED.'.
**11.07.1993** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - HIGH PRESSURE NON-RETURN VALVE NOT WORKING ALLOWING INTER - COOLER SAFETY TO BLOW - DISC REPLACED.'.
**11.07.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES COCK 'A'END LEAKING -

REPAIRED.'.
**11.07.1993** Service defect: 'A - OTHER BODY REPAIRS - OBSERVERS DOOR WIPER BLADE NOT WIPING PROPERLY - BLADE REPLACED.'.
**22.07.1993** Service defect: 'FA - ADJUST BRAKES - SIX BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.
**22.07.1993** Service defect: 'FA - TRACTION MOTOR EARTH - TRACTION MOTOR #3 EARTH FAULT - CHANGED.'.
**05.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - WET SAND REMOVED FROM FRONT LHS SAND BOX.'.
**14.12.1993** Service defect: 'TW - AUXILLARY MACHINES - BRUSHES CHANGED IN EXCITER.'.
**15.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR CHANGED.'.
**15.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLING CHANGED.'.
**03.05.1994** Service defect: 'TW - DOORS - DOOR TO NOSE HAD CATCH REPLACED.'.
**18.05.1994** Service defect: 'TW - COOLING SYSTEM WATER PUMP - WATER PUMP LEAKING - REPLACED.'.
**12.08.1994** Service defect: 'TW - COOLING SYSTEM - DRESSERS ON PIPES TO RADIATORS RENEWED.'.
**12.08.1994** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - SENSORS FOR HOT ENGINE AND FAN SPEED CONTROL RENEWED.'.
**07.09.1994** Service defect: 'UN - PRESSURISING FAN - B END TRACTION MOTOR BLOWER BEARINGS CHANGED.'.
**23.02.1995** Service defect: 'TW - POOR RADIO TRANSMISSION'.
**99.99.9999** Service defect: 'SW - POOR RADIO TRANSMISSION'.

**870**

Details: locomotive '870 U' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $214810
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 04.01.1970
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LEAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 08.01.1996 | | |
| Last Lift: | 20.07.1987 | | |
| SW Service Mileage: | 201367 KM | SW Service Date: | 22.07.1992 |
| A Service Mileage: | 287262 KM | A Service Date: | 04.10.1994 |
| B Service Mileage: | 317936 KM | B Service Date: | 11.05.1995 |
| C Service Mileage: | 256943 KM | C Service Date: | 27.07.1993 |
| D Service Mileage: | 206529 KM | D Service Date: | 17.08.1992 |
| F Service Mileage: | 738310 KM | A Service Date: | 20.07.1987 |
| WT Service Mileage: | 89701 KM | WT Service Date: | 23.01.1989 |
| US Service Mileage: | 319322 KM | A Service Date: | 24.11.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**18.01.1991** Service defect: 'SW - OTHER BODY REPAIRS - ALUMINIUM WINDOW MOD COMPLETED.'.
**22.01.1992** Service defect: 'SW - CONTACTOR MISCELLANEOUS - ARC SHUTE ON GENERATOR FIELD CONTACTOR OCCASSIONALLY CATCHING MOVING ARM CONTACT'.
**15.04.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BROKEN PIGTAILS T/M 5 WHEELSLIP LEAD RUBBED THROUGH T/M 5&6'.
**26.05.1992** Service defect: 'TW - VIGILANCE - COMPRESSION FITTING LEAKING - REPAIRED.'.
**05.06.1992** Service defect: 'TW - EXHAUST - SHORT EXHAUST CONNECTOR REPLACED.'.
**16.06.1992** Service defect: 'TW - FUEL SYSTEM LINES - NO 6 HIGH PRESSURE FUEL LINE CHANGED.'.
**22.07.1992** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - 30 AMP CAB HEATER C/BREAKER CHANGED.'.
**27.07.1993** Service defect: 'C - DOORS - DOOR SEALS LEAKING - RUBBER STRIP GLUED AROUND FRAME.'.
**27.07.1993** Service defect: 'C - EARTH FAULT MISCELLANEOUS - CRANKCASE EXHAUSTER,FAN SWITCH T1 AND WIRE #4 TO FUEL PUMP TO EARTH - ALL REPLACED.'.
**27.07.1993** Service defect: 'C - ELECTRICAL GENERAL - ELECTRICAL CABINET SEALS REPLACED.'.
**27.07.1993** Service defect: 'C - EXHAUST - LONG EXHAUST CONNECTOR LEAKING - REPLACED.'.
**27.07.1993** Service defect: 'C - MECHANICAL EQUIPMENT - TRACTION MOTOR #1 NOSE SUSPENSION BROKEN WEAR PLATE - REPAIRED.'.
**27.07.1993** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - MAGNET VALVE FOR AIR COMPRESSOR STICKY - REPLACED.'.
**27.07.1993** Service defect: 'C - PRESSURISING FAN - BELTS FOR REAR TRACTION MOTOR BLOWER DAMAGED - RENEWED.'.
**27.07.1993** Service defect: 'C - RADIATOR/PRESSURISING FAN - RADIATOR FAN SWITCH STICKY AND LABEL WRONG WAY AROUND - REPAIRED.'.
**27.07.1993** Service defect: 'C - TRACTION MOTOR EARTH - TRACTION MOTORS LOW MEGGER READING BUT RISING - MOISTURE IN MOTORS ONLY.'.
**03.08.1993** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTORS #2 & #4 CHANGED - STUCK OPEN NEEDLES.'.
**19.08.1993** Service defect: 'FA - EARTH FAULT MISCELLANEOUS - FAULT CLEARED'.
**19.08.1993** Service defect: 'TW - ADJUST BRAKES - ONE BRAKE BLOCK CHANGED.'.
**19.08.1993** Service defect: 'TW - AUXILLARY MACHINES - RADIO DC-DC CONVERTOR CHANGED.HEATER REPAIRED.'.
**24.08.1993** Service defect: 'FA - TRACTION MOTOR EARTH - INTERPOL DOWN ARMATURE LOW'.
**19.08.1994** Service defect: 'TW - ADJUST BRAKES - BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**19.08.1994** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - MOISTURE DRAINED FROM WICKS.'.
**19.08.1994** Service defect: 'TW - FLOORS - FLOOR HOLE

RE-TAPPED FOR SEAT MOUNTING.'.
**19.08.1994** Service defect: 'TW - MARKER LIGHTS - MARKER LIGHT HOLDER REPAIRED.'.
**12.09.1994** Service defect: 'CA - ENGINE WATER LEAK - DRESSERS REPLACED - WATER LEAK.'.
**12.09.1994** Service defect: 'CA - THERMOSTATS - FAN SENSORS REPLACED ETS SENSOR TESTED AND RE-SET.'.
**15.09.1994** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - ETS AND FAN CONTROL WIRING SORTED OUT.'.
**04.10.1994** Service defect: 'A - FUEL SYSTEM LINES - FUEL LEAK COPPER PIPE NEAR MAIN GENERATOR - REPAIRED.'.
**04.10.1994** Service defect: 'A - MAIN GENERATOR - MAIN GENERATOR CLEANED - FILTHY.'.
**07.12.1994** Service defect: 'UN - NIL'.
**06.01.1995** Service defect: 'TW - GENERAL - HAND BRAKE U/S AND REPAIRED IN ADDITION TO TW'.
**06.01.1995** Service defect: 'TW - NIL'.
**02.02.1995** Service defect: 'TW - NIL'.
**23.02.1995** Service defect: 'TW - NIL'.
**15.03.1995** Service defect: 'TW - NIL'.
**30.03.1995** Service defect: 'TW - NIL'.
**11.05.1995** Service defect: 'B - ENGINE PROTECTION - LOW OIL LIGHT NOT WORKING - WIRE TO ENGINE GOVERNOR OPEN CIRCUIT - WIRE REPLACED.'.
**11.05.1995** Service defect: 'B - EXHAUST - SHORT EXHAUST BELLOWS LEAKING - REPLACED.'.
**99.99.9999** Service defect: 'SW - NIL'.

**871**

Details: locomotive '871 G' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 70.2tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $194880
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CN L-10
**Date Built:** 03.02.1966
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LEAS

| | | | |
|---|---|---|---|
| Return to Service Date: | 05.01.1996 | | |
| SW Service Mileage: | 234367 KM | SW Service Date: | 12.11.1992 |
| A Service Mileage: | 394322 KM | A Service Date: | 03.05.1995 |
| B Service Mileage: | 310969 KM | B Service Date: | 05.11.1993 |
| C Service Mileage: | 366930 KM | C Service Date: | 26.09.1994 |
| D Service Mileage: | 202323 KM | D Service Date: | 20.02.1992 |
| US Service Mileage: | 393211 KM | A Service Date: | 16.03.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**17.01.1991** Service defect: 'SW - CRANKCASE EXHAUSTER MOTOR TO CHANGE.'.
**21.01.1991** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - 30 AMP LIGHT C/BREAKER CHANGED.'.
**21.01.1991** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - CRANKCASE EXHAUSTER MOTOR CHANGED.'.
**21.01.1991** Service defect: 'SW - 30 AMP LIGHT CIRCUIT BREAK'.
**04.03.1991** Service defect: 'TW - AIR CONDITIONING - AIRCONDITIONER DRIER REPLACED & REGASSED.'.
**14.08.1991** Service defect: 'TS - ENGINE GOVERNOR ELECTRICAL - GOVERNOR LOAD REG BRUSH ADJUSTED.'.
**15.08.1991** Service defect: 'A - ALUMINIUM WINDOWS TO BE FITTED TO CAB.'.
**30.10.1991** Service defect: 'SW - OTHER BODY REPAIRS - ALUMINIUM SIDE WINDOWS FITTED TO CAB.'.
**22.01.1992** Service defect: 'SW - ELECTRICAL MISC. TRANSITION - AUX CONTACT ON P1 ADJUSTED (8H TO 8F)'.
**22.01.1992** Service defect: 'SW - ELECTRICAL MISC. TRANSITION - AUX CONTACT ON P2 ADJUSTED (8F TO 8G)'.
**22.01.1992** Service defect: 'SW - ELECTRICAL MISC. TRANSITION - AUX CONTACT ON S21 ADJUSTED (8J TO 8K)'.
**22.01.1992** Service defect: 'SW - ELECTRICAL MISC. TRANSITION - SHUNT WIRE REMOVED FROM 13 TO 18 AND PUT BETWEEN 18 TO 6 ON BOTH CONTROL STANDS'.
**06.02.1992** Service defect: 'FA - ENGINE WATER LEAK - NO 1 CYL HEAD WATER ELBOW GASKET REPLACED.'.
**21.02.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 1 CYL HEAD CHANGED ACC BURNT EXHAUST VALVE.'.
**08.04.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 45 LB FEED VALVE CHANGED.'.
**10.04.1992** Service defect: 'UN - FUEL SYSTEM LINES - NO 6 HIGH PRESSURE FUEL LINE CHANGED ACC BROKEN.'.
**27.05.1992** Service defect: 'SW - ENGINE CYLINDER HEADS - NO 5 HEAD CHANGED ACC BURNT VALVE.'.
**27.05.1992** Service defect: 'SW - EXHAUST - GASKET REPLACED EXHAUST PIPE CENTRE JOINT.'.
**26.06.1992** Service defect: 'SW - FUEL SYSTEM - AUTO SHUT OFF VALVES FITTED TO FUEL TANK.'.
**02.09.1992** Service defect: 'TW - COOLING SYSTEM - ENGINE WATER FLUSHED & CHANGED.'.
**29.10.1992** Service defect: 'UN - AIR CONDITIONING - AIRCONDITIONER COMPRESSOR BELTS REPLACED.'.
**29.10.1992** Service defect: 'UN - OTHER BODY REPAIRS - BREMSHEY SEATS FITTED.'.
**11.05.1993** Service defect: 'TW - VIGILANCE - AIR LINE TO VIGILANCE REJOINED'.
**07.07.1993** Service defect: 'TW - DOORS - DRIVERS SIDE DOOR LOCK BROKEN - REPAIRED.'.
**07.07.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - BOTH LOAD METERS FAULTY - BOTH REPLACED AND RECALIBRATED.'.
**07.07.1993** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - LIGHTS 'B'END NOT WORKING CORRECTLY - WIRING FOUND TO BE

CONNECTED TO WRONG TERMINALS - SORTED OUT.'.
**07.07.1993** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - MANUAL POWER NOT WORKING - FUSE REPLACED.'.
**07.07.1993** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - TWO HEADLAMPS BLOWN ONE AT EACH END - BOTH RENEWED.'.
**07.07.1993** Service defect: 'TW - ENGINE AIR FILTERS - BOTH FILTERS BLOCKING - RENEWED.'.
**07.07.1993** Service defect: 'TW - MECHANICAL EQUIPMENT COUPLER - BELTS TO AUXILIARY AND EXCITER TWISTED AND BROKEN - SIX BELTS REPLACED.'.
**07.07.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - BOTH SANDING VALVES 'A'END BLOWING OFF - REPLACED.'.
**23.08.1993** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - DUST SEAL TRACTION MOTOR #4 REPLACED.'.
**23.08.1993** Service defect: 'TW - PRESSURISING FAN - BELTS B END TIGHTENED.'.
**30.09.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - AXEL BOXES #1 & 6 SEIZED - FREED.'.
**07.12.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER B SIDE REPLACED'.
**04.02.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - HEADS 5 & 6 REPLACED.'.
**28.02.1994** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - NEW WHEELS, TRACTION MOTORS AND BOGIES FITTED.'.
**28.02.1994** Service defect: 'A - EXHAUST - SPARK ARRESTORS CHANGED ADAPTOR TO STACK ANDEND OF STACK. LEAKS REPAIRED.'.
**28.02.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE PRESSURE ADJUSTED DOWN.'.
**28.02.1994** Service defect: 'A - VIGILANCE - VIGILANCE TIMING CHOKE CLEANED OUT.'.
**09.03.1994** Service defect: 'FA - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR DRAIN COCK MISSING - RENEWED.'.
**09.03.1994** Service defect: 'FA - TRACTION MOTOR EARTH - TRACTION MOTOR # 1 EARTH FAULT IN FIELDS - REPLACED.'.
**26.09.1994** Service defect: 'C - EXHAUST - EXHAUST LEAKS REPAIRED.'.
**26.09.1994** Service defect: 'C - MECHANICAL EQUIPMENT - TUNDISH DRAINS CLEARED - BLOCKED.'.
**02.12.1994** Service defect: 'TW - NIL'.
**16.03.1995** Service defect: 'UN - NIL'.
**03.05.1995** Service defect: 'A - MECHANICAL EQUIPMENT - A END PACKAGE AND DRAFT GEAR REPLACED.'.
**99.99.9999** Service defect: 'SW - NIL'.

**872**

Details: locomotive '872 P' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 70.2tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $194880
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CN L-10
**Date Built:** 07.03.1966
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LEAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 04.04.1995 | | |
| Last Lift: | 26.02.1986 | | |
| SW Service Mileage: | 377631 KM | SW Service Date: | 15.08.1993 |
| A Service Mileage: | 458507 KM | A Service Date: | 23.08.1994 |
| B Service Mileage: | 376395 KM | B Service Date: | 08.06.1993 |
| C Service Mileage: | 324468 KM | C Service Date: | 11.06.1992 |
| E Service Mileage: | 433539 KM | A Service Date: | 15.03.1994 |
| US Service Mileage: | 479934 KM | A Service Date: | 04.04.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**16.01.1991** Service defect: 'SW - ELECTRICAL MAINTENANCE - REVERSER - PISTON SEALS REPLACED ON REVERSER.'.
**15.02.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT EDDY CURRENT CLUTCH TO BE REPAIRED.'.
**15.02.1991** Service defect: 'UN - EDDY CURRENT CLUTCH TO REPAIR.'.
**22.03.1991** Service defect: 'TW - VIGILANCE - VIGILANCE TESTED & ADJUSTED.'.
**08.04.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - S 21 CONTACTOR PISTON PACKAGE REPLACED.'.
**08.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - TYPE D MAGNET VALVE REPLACED ON COMPRESSOR.'.
**08.04.1991** Service defect: 'UN - WHEELSLIP - WHEELSLIP RELAY REPAIRED.'.
**19.04.1991** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR EP MAGNET VALVE CHANGED..COMPRESSOR OIL CHANGED, CALTEX RPM 100 USED.'.
**02.10.1991** Service defect: 'TW - NO 1 NOSE SUSPENSION TO REPAIR.'.
**02.10.1991** Service defect: 'TW - FLASH DAMAGE TO BRUSH HOLDERS MAIN GEN TO REPAIR.'.
**10.10.1991** Service defect: 'SW - BOGIE - NO 1 NOSE SUSPENSION WEAR PLATES REPLACED.'.
**10.10.1991** Service defect: 'SW - MAIN GENERATOR FLASHOVER - ALL BRUSH HOLDER INSULATOR BUSHES REPLACED ACC FLASH DAMAGE.ALL BRUSHES REPLACED.'.
**10.10.1991** Service defect: 'SW - MAIN GEN COMM TO GRIND.'.
**23.10.1991** Service defect: 'B - ELECTRICAL MAINTENANCE - REVERSER - PISTON SEALS REPLACED REVERSER.'.
**19.11.1991** Service defect: 'TW - B END LHS NO 3 TOP SLACK ADJUSTER TO REPAIR.'.
**03.01.1992** Service defect: 'SW - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHT RESISTORS REPLACED.'.

**14.01.1992** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDO BALLAST REGULATOR REPLACED'.
**14.01.1992** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REG ADJUSTED DOWN TO 72.5V'.
**14.01.1992** Service defect: 'TW - FUEL SYSTEM - FUEL PRESSURE ADJUSTED FROM 38 PSI TO 28 PSI'.
**13.02.1992** Service defect: 'SW - ENGINE - ENGINE CHECKED FOR BURNT VALVE.'.
**13.02.1992** Service defect: 'SW - VIGILANCE - GASKET KITS FITTED TO ALL VIG VALVES,TIMING CHOKE CLEANED.'.
**26.02.1992** Service defect: 'SW - BATTERY MAINTENANCE - BATTERY CHANGED R/H/S TOP OUTSIDE.'.
**06.03.1992** Service defect: 'SW - ENGINE CYLINDER HEADS - NO 3 HEAD CHANGED ACC BURNT VALVE.'.
**06.03.1992** Service defect: 'SW - VALVE BRIDGE/LASH ADJUSTER - NO 3 VALVE ROCKER SHAFT & BUSHES REPLACED ACC BADLY WORN.'.
**06.03.1992** Service defect: 'SW - NO 5 HEAD TO CHANGE.'.
**13.03.1992** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - OIL BATH FILTERS REMOVED.PAPER FILTER MOD FITTED TO TURBO.'.
**17.03.1992** Service defect: 'SW - ENGINE CYLINDER HEADS - NO 5 HEAD CHANGED ACC BURNT VALVE.'.
**17.03.1992** Service defect: 'SW - VALVE BRIDGE/LASH ADJUSTER - NO 1,2,4,5 & 6 ROCKER SHAFTS & BUSHES REPLACED ACC WORN.'.
**02.04.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 4 HEAD CHANGED ACC CRACKED INLET VALVE.'.
**29.05.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER CHANGED ACC IMPELLER DISTINIGRATED.'.
**01.06.1992** Service defect: 'UN - BATTERY MAINTENANCE - L/H/S TOP INNER BATTERY CHANGED ACC CELL U/S.'.
**12.06.1992** Service defect: 'UN - ENGINE WATER LEAK - TURBO INTERCOOLER CHANGED ACC LEAKING WATER.'.
**05.08.1992** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - OVERHAULED EDDY CLUTCH FITTED ACC BEARING COLLASPED.'.
**05.08.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - OVERHAULED FAN GEAR BOX FITTED.'.
**14.08.1992** Service defect: 'FA - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER CHANGED ACC AIR IMPELLER DISINTERGRATED.116852.'.
**19.08.1992** Service defect: 'SW - BATTERY MAINTENANCE - L/H/S OUTSIDE BATTERY REPLACED.'.
**19.08.1992** Service defect: 'SW - OTHER BODY REPAIRS - AUTO SHUT OFF VALVES FITTED TO FUEL TANK.'.
**16.04.1993** Service defect: 'TW - BODY REPAIRS - ACCIDENT - LHS MIRROR REPLACED BROKEN BY TREE BRANCH.'.
**16.04.1993** Service defect: 'TW - VIGILANCE - PRESSURE SWITCH FAULTY MODIFIED SYSTEM TO FIT DIFFERENT TYPEOF PRESSURE SWITCH.'.
**29.04.1993** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - DRAIN COCK REPAIRED ON MAIN RESEVOIR'.
**29.04.1993** Service defect: 'TW - MECHANICAL EQUIPMENT COUPLER - KNUCKLE CHANGED ON 'B' END'.
**29.04.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE CHANGED 'A'END'.
**12.05.1993** Service defect: 'UN - BROKEN VALVE - BURNT EXHAUST VALVE #6 HEAD - HEAD REPLACED'.
**12.05.1993** Service defect: 'UN - COOLING WATER - ENGINE COOLING WATER REPLACED AS PER WATER INSPECTION TEST REPORT'.
**08.06.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - P1,P2,S1 LUBRICATED.ALL POWER CONTACTORS WASHED - ALL GROTTY'.
**08.06.1993** Service defect: 'B - COOLING SYSTEM - COOLING SYSTEM FLUSHED AND REFILLED'.
**08.06.1993** Service defect: 'B - DOORS - ELECTRICAL CABINET SEALS MISSING - RENEWED.'.
**08.06.1993** Service defect: 'B - ELECT. MISC. - GAUGES & INSTRUMENTS - RESISTORS COVERED WITH GRIME - WASHED DOWN'.
**08.06.1993** Service defect: 'B - FUEL SYSTEM - FUEL PRESSURE LOW 18LBS - ADJUSTED TO 23LBS'.
**08.06.1993** Service defect: 'B - MAIN GENERATOR - DIRTY - WASHED OUT'.
**08.06.1993** Service defect: 'B - OTHER BODY REPAIRS - VIGILANCE BOX HINGES BROKEN - RENEWED.'.
**08.06.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - PERISHING RUBBER INSULATION ON SIX CARBON BRUSHES - RENEWED.'.
**08.06.1993** Service defect: 'B - VIGILANCE - WARNING WHISTLE BLOWS AFTER DUMPING TIMING RES AIR - DOUBLE CHECK VALVE REPAIRED'.
**13.09.1993** Service defect: 'TW - ADJUST BRAKES - 2 BRAKE BLOCKS CHANGED.'.
**13.09.1993** Service defect: 'TW - ENGINE AIR FILTERS - ENGINE AIR FILTERS CHANGED.'.
**08.10.1993** Service defect: 'TW - ELECT.MISC. SWITCHES/CIRCUIT BREAKERS - HEATER CIRCUIT BREAKER REPLACED.'.
**17.11.1993** Service defect: 'TW - COOLING WATER - ENGINE WATER CHANGED.'.
**17.11.1993** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT CHANGED.'.
**17.11.1993** Service defect: 'TW - OTHER BODY REPAIRS - MIRROR REPLACED.'.
**14.04.1994** Service defect: 'TW - NO 2 L.H.S. JOURNAL OIL FILLER CAP MISSING.'.
**23.08.1994** Service defect: 'A - COOLING SYSTEM - ALL WATER HOSES AND DRESSERS TIGHTENED.'.
**23.08.1994** Service defect: 'A - EARTH FAULT MISCELLANEOUS - EARTH FAULT POWER AND CONTROL - TRANSITION PANELS REPAIRED AND NEW COILS FITTED.'.
**23.08.1994** Service defect: 'A - RADIATOR/PRESSURISING FAN - FAN SENSORS AND HOT ENGINE SENSOR REPLACED AND SET UP.'.
**10.10.1994** Service defect: 'TW - ELECT.MISC. SWITCHES/CIRCUIT BREAKERS - STOP BUTTON SWITCH REPAIRED - STIFF TO OPERATE.'.
**10.10.1994** Service defect: 'TW - WHEELSLIP - WHEELSLIP BUZZER OPERATION TESTED OKAY.'.
**26.10.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - HEAD NO.3 CHANGED - WATER LEAK.'.
**20.01.1995** Service defect: 'TW - NIL'.
**04.04.1995** Service defect: 'UN - CARBODY FILTERS - ALL CARBODY FILTERS CHANGED.'.
**04.04.1995** Service defect: 'UN - ELECTRICAL MISC.

VOLTAGE REGULATOR - SOLID STATE REG. REMOVED AND MERCOR TYPE REWIRED IN PLACE.'.

**04.04.1995** Service defect: 'UN - ENGINE CYLINDER HEADS - ALL SIX HEADS REPLACED.'.

**04.04.1995** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO AND FILTERS CHANGED.'.

**99.99.9999** Service defect: 'SW - NIL'.

**873**

Details: locomotive '873 B' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 70.2tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $194880
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CN L-10
**Date Built:** 22.04.1966
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LEAS

| | | | |
|---|---|---|---|
| Return to Service Date: | 15.01.1996 | | |
| SW Service Mileage: | 182519 KM | SW Service Date: | 10.05.1993 |
| A Service Mileage: | 323590 KM | A Service Date: | 16.06.1995 |
| B Service Mileage: | 126446 KM | B Service Date: | 22.05.1992 |
| C Service Mileage: | 293011 KM | C Service Date: | 04.01.1995 |
| D Service Mileage: | 241165 KM | D Service Date: | 01.02.1994 |
| US Service Mileage: | 337298 KM | A Service Date: | 15.01.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**16.01.1991** Service defect: 'SW - AIR CONDITIONING - AIRCONDITIONER REGASSED.'.

**16.01.1991** Service defect: 'SW - REVERSER TO CHECK.'.

**08.02.1991** Service defect: 'UN - VIGILANCE - PILOT AIR VALVE SEALS & SPRING REPLACED..'.

**08.02.1991** Service defect: 'SW - SPARK ARRESTORSTO FIT TO EXHAUST.ALUMINIUM WINDOWS'.

**08.02.1991** Service defect: 'SW - TO BE FITTED TO CAB.'.

**01.03.1991** Service defect: 'TW - AIRCONDITIONER COMPRESSOR CLUTCH COIL TO BE REPLAC'.

**01.03.1991** Service defect: 'TW - ED..'.

**06.03.1991** Service defect: 'SW - EXHAUST - SPARK ARRESTER MOD FITTED TO EXHAUST.'.

**06.03.1991** Service defect: 'SW - ALUMINIUM WINDOWS TO BE FITTED TO CAB.'.

**22.03.1991** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONER COMPRESSOR CLUTCH COIL REPLACED..NEW A 60 V BELTS FITTED TO COMPRESSOR.'.

**22.03.1991** Service defect: 'SW - ENGINE - OIL HEAT EXCHANGER CHANGED.'.

**22.03.1991** Service defect: 'SW - OTHER BODY REPAIRS - ALUMINIUM WINDOWS FITTED TO CAB..'.

**02.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - B END FAN COMPARTMENT SIDE T/M BLOWER BEARING CHANGED.'.

**16.04.1991** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED.'.

**31.07.1991** Service defect: 'C - ENGINE - PAPER AIR FILTER MOD FITTED TO TURBOCHARGER..ENGINE WATER DRAINED FLUSHED & REFILLED.'.

**31.07.1991** Service defect: 'C - GENERAL LOSS OF POWER - ENG LOAD TESTED & ADJUSTED.'.

**27.03.1992** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH B SIDE LOAD METER GAUGE LIGHTS REPAIRED'.

**01.05.1992** Service defect: 'TW - FUEL SYSTEM - PRIMARY FUEL FILTER LEAKING - GASKET RENEWED'.

**23.06.1992** Service defect: 'SW - FUEL SYSTEM - AUTO SHUT OFF VALVES FITTED TO FUEL TANK.'.

**04.08.1992** Service defect: 'TW - OTHER BODY REPAIRS - TWO BREMSHEY SEATS FITTED.'.

**18.09.1992** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - ALL COMPRESSOR UNLOADER VALVES SERVICED.NEW COPPER SEALS IN.'.

**29.10.1992** Service defect: 'UN - BOGIE - L/H/S NO 6 HORN STAY WEAR PLATES REPLACED.'.

**29.10.1992** Service defect: 'UN - OTHER BODY REPAIRS - BREMSHEY SEATS FITTED.'.

**06.11.1992** Service defect: 'TW - AUXILLARY MACHINES - EXCITER VEED & CLEANED.'.

**06.11.1992** Service defect: 'TW - MAIN GENERATOR - MAIN & AUX GENERATORS CLEANED.HIGH MICA REMOVED.'.

**21.04.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - TWO WICKS REPLACED'.

**21.04.1993** Service defect: 'TW - ENGINE WATER LEAK - SIGHT GLASS REPLACED'.

**21.04.1993** Service defect: 'TW - FUEL SYSTEM LINES - LEAK STOPPED IN FUEL LINE'.

**21.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - FIRE EXTINGHUISHER REPLACED AS ONE HAD DISCHARGED IN THE CAB'.

**20.05.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED'.

**20.05.1993** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - EARTH FAULT IN WIRING TO AUXILLARY GENERATOR - REMOVED'.

**20.05.1993** Service defect: 'TW - FUEL SYSTEM - LEAK IN FUEL LINE - REPAIRED'.

**08.06.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - SUSPENSION BEARING WICK 5 LHS CHANGED AND OIL CHANGED'.

**08.06.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - 'B'SIDE SPEEDO NOT WORKING - PLUG PUT BACK IN.'.

**08.06.1993** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - MANUAL POWER FUSE BLOWN - REPLACED.'.

**08.06.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR COMPRESSOR MAGNET VALVE STICKY - REPAIRED.'.

**25.06.1993** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP LEAKING - CHANGED.'.

**25.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR MAGNET VALVE

CHANGED.'.
**27.07.1993** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - FRONT LHS HEADLIGHT BLOWN - CHANGED.'.
**27.07.1993** Service defect: 'TW - ENGINE AIR FILTERS - ENGINE AIR FILTERS CHANGED.'.
**27.07.1993** Service defect: 'TW - ENGINE PROTECTION - HOT ENGINE ALARM SENSOR PIPE BROKEN - SENSOR REPLACED.'.
**06.10.1993** Service defect: 'TW - REFRIGERATION & AIR CON - AIR CONDITIONER BELTS REPLACED.'.
**19.11.1993** Service defect: 'TW - EXHAUST - TWO FLEXIBLE EXHAUST COUPLINGS REPLACED.'.
**04.12.1993** Service defect: 'FA - ENGINE CYLINDER HEADS - #1 HEAD, LINER, CRANKSHAFT UPPER BEARING CHANGED.'.
**16.02.1994** Service defect: 'CA - ELECT.MISC. SWITCHES/CIRCUIT BREAKERS - PRESSURE SWITCH FOR BCP CIRCUIT CHANGED OUT'.
**16.02.1994** Service defect: 'CA - NO FAULT FOUND - NO POWER - NO FAULT FOUND'.
**07.03.1994** Service defect: 'FA - ELECTRICAL MAINTENANCE -WIRING - LUG BURNT OFF OF TRACTION MOTOR - RELUGGED.'.
**23.06.1994** Service defect: 'A - PILOT LIGHTS - VIG AND BCP LAMPS REPLACED.'.
**23.06.1994** Service defect: 'A - VIGILANCE - PENALTY APPLICATION NOT WORKING - REPAIRED.'.
**07.09.1994** Service defect: 'TW - FUEL SYSTEM LINES - INJECTOR FUEL PIPE # 2 CHANGED.'.
**28.11.1994** Service defect: 'UN - REPAIRS TO POWER CONTACTOR'.
**07.12.1994** Service defect: 'UN - NIL'.
**04.01.1995** Service defect: 'C - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED CONTROL DOWN TO EARTH'.
**12.01.1995** Service defect: 'UN - FAN ON LOW SPEED ONLY TO BE RECTIFIED'.
**02.02.1995** Service defect: 'TW - NIL'.
**16.02.1995** Service defect: 'TW - O/HEAT LIGHT COMING ON PRIOR THERMASTAT CUTTING IN'.
**01.03.1995** Service defect: 'TW - NIL'.
**10.03.1995** Service defect: 'TW - NIL'.
**16.06.1995** Service defect: 'A - DOORS - LOCK REPLACED A SIDE DOOR.'.
**16.06.1995** Service defect: 'A - GENERAL - FIRE EXTINGHUISHER REPLACED.'.
**16.06.1995** Service defect: 'A - MECHANICAL EQUIPMENT - WINDSCREEN WIPER ARM AND MOTOR REPLACED.'.
**16.06.1995** Service defect: 'A - PILOT LIGHTS - A SIDE SPEEDO LIGHT CIRCUIT REPAIRED.'.
**16.06.1995** Service defect: 'A - SLIDING WINDOWS - SUNVISOR REPOSITIONED.'.
**99.99.9999** Service defect: 'SW - O/HEAT LIGHT COMING ON PRIOR THERMASTAT CUTTING IN'.

**874**

Details: locomotive '874 K' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $121140
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 20.02.1970
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| SW Service Mileage: | 1537488 KM | SW Service Date: | 27.02.1995 |
| A Service Mileage: | 1585292 KM | A Service Date: | 09.01.1997 |
| B Service Mileage: | 1594218 KM | B Service Date: | 22.02.1996 |
| C Service Mileage: | 1551582 KM | C Service Date: | 27.11.1995 |
| D Service Mileage: | 1490533 KM | D Service Date: | 18.02.1994 |
| E Service Mileage: | 1352928 KM | A Service Date: | 16.03.1990 |
| F Service Mileage: | 1570395 KM | A Service Date: | 17.09.1996 |
| US Service Mileage: | 1592310 KM | A Service Date: | 12.03.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**02.08.1989** Service defect: 'UN - ENGINE LINER - NO3 LINER REPLACED A/C CRACKED.'.
**04.08.1989** Service defect: 'E - BOGIE MAINTENANCE - WICKS - L1,L2,L4,R3,R6 WICKS REPLACED.'.
**26.09.1989** Service defect: 'UN - EXHAUST BLOWING THROUGH SIDE OF STACK.22/9'.
**20.11.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - P2 PISTON PACKING REPLACED A/C MOTOR CONTACTS DROPPING IN & OUT.'.
**06.12.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.(IN 106231M2R).'.
**19.01.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.
**19.01.1990** Service defect: 'UN - TRACTION MOTOR - ALL TM'S CHANGED (IN 229,E83,188,E153,E18,220.OUT E178,E55, E179,263,E183,E176).'.
**03.02.1990** Service defect: 'UN - GENERAL - HAND BRAKE RATCHET SPRING REPLACED.'.
**09.02.1990** Service defect: 'UN - FUEL SYSTEM PUMP - NO4 FUEL PUMP CHANGED.'.
**15.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - ENGINE BOOKED FOR BLACK SMOKE & MISSING.ALL CYLINDERS FIRINGTURBO RUN OK.'.
**16.03.1990** Service defect: 'E - BOGIE MAINTENANCE - WICKS - ALL WICKS REPLACED,BOXES DRAINED & WIPED CLEAN.'.
**16.03.1990** Service defect: 'E - EXHAUST - LONG EXHAUST CONNECTOR REPLACED.'.
**28.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'COUPLER CHANGED.'.
**24.05.1990** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR CHANGED.'.
**12.06.1990** Service defect: 'UN - EXHAUST - EXHAUST MANIFOLD FOR NO 1,2,3 CYLINDERS CHANGED.'.
**12.06.1990** Service defect: 'UN - ENGINE CHOOFING,SUSPECT NO 2 HEAD.'.
**02.08.1990** Service defect: 'UN - NO 3 HEAD CHOOFING TO CHANGE'.
**04.08.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - NO3 CYLINDER HEAD CHANGED.'.

**18.08.1990** Service defect: 'UN - GENERAL LOSS OF POWER - LOST POWER WHILE SHUNTING.WHEEL SLIP CONTACTS CLEANED A/C DIRTY.'.
**15.09.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L4,R5 WICKS REPLACED.'.
**08.11.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP - LOCO CHECKED IN DEPOT,NOT FAULTED.'.
**14.11.1990** Service defect: 'UN - TRACTION MOTOR - NO1 TM CHANGED.(IN C22 OUT 229).'.
**21.11.1990** Service defect: 'UN - EXHAUST - EXHAUST BOLTS REPLACED.'.
**18.02.1991** Service defect: 'UN - BOGIE - NO5 GEARCASE WELDED,A/C SPLIT.'.
**11.04.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAKS BETWEEN 4 &5 CYLINDER CHECKED OK.'.
**11.04.1991** Service defect: 'UN - TRACTION MOTOR - 'A'END T/M BLOWER V BELTS ADJUSTED & NO1 REPLACED.'B'END T/MBELTS ADJUSTED.'.
**24.07.1991** Service defect: 'SW - BOGIE - BOGIE WASH COMPLETED.'.
**01.08.1991** Service defect: 'A - ENGINE CYLINDER HEADS - NO 3 CYC HEAD CHANGED, A/C CRACKED.'.
**01.08.1991** Service defect: 'A - TRACTION MOTOR - T/M BELLOWS CHANGED.'.
**01.08.1991** Service defect: 'A - VIGILANCE - VIG REPAIRED.'.
**01.08.1991** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.'.
**22.08.1991** Service defect: 'UN - FUEL SYSTEM - FUEL STRAINER CLEANED, A/C FULL OF RUST.PRIM/FILTER CHANGED.FUEL PRESSURE RESET FROM 22PSI TO 32 PSI,LOCO RUN IN NOTCH 8'.
**22.08.1991** Service defect: 'UN - GENERAL - WINDOW WIPER REPAIRED,LH REAR.'.
**11.09.1991** Service defect: 'UN - BOGIE - FLATS CHECKED.'.
**11.09.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - COMPRESSOR GOVERNOR SWITCH REPLACED.'.
**11.09.1991** Service defect: 'UN - EXHAUST - EXH JOINTS TIGHTENED & CONNECTOR CHANGED.EXH JOINT REPLACED.'.
**11.09.1991** Service defect: 'UN - GENERAL - FIRE EXT GLASS REPLACED.'.
**20.12.1991** Service defect: 'C - COOLING SYSTEM RADIATOR - COOLING WATER CHANGED.'.
**20.12.1991** Service defect: 'C - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL. NO.4 WIRE OFF AT REAR OF TERMINAL.REPAIRED'.
**20.12.1991** Service defect: 'C - TRACTION MOTOR EARTH - NO.3;4 &5 T/M TO CHECK A/C EARTH. FOUND EARTH ON CONTROL.'.
**19.02.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - NO POWER NSR2.RELAY INTERLOCK OPEN.GLOBE REPLACED.'.
**19.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - B/SIDE BRAKE PIPE OVERCHARGING,70LB FEED VALVE REPLACED AND AIR LEAKFIXED.'.
**19.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO LIGHT BLOWN.REPLACED.'.
**13.03.1992** Service defect: 'A - LUBRICATING SYSTEM - OIL PRESSURE RELEASE HOSE REPLACED A/C LEAKING.'.
**13.03.1992** Service defect: 'A - RADIATOR/PRESSURISING FAN - THERMOSTAT AND FAN OPERATION CHECKED OK.'.
**13.03.1992** Service defect: 'A - SLIP RINGS ON EDDY CURRENT CLUTCH BADLY WORN.'.
**13.03.1992** Service defect: 'A - TO MONITOR.'.
**04.06.1992** Service defect: 'SW - BOGIE - BOGIE & BODY WASH COMPLETED.'.
**04.06.1992** Service defect: 'SW - ELECTRICAL MISC. LOOSE CONNECTIONS - NO 5 T/M CABLE CONNECTION REPAIRED,A/C LOOSE CONNECTION CAUSING IT TO BURN.LOCO POWER TEST OK.'.
**04.06.1992** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - AIR LEAK ON SANDER MAGNET VALVE REPAIRED.'.
**21.08.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - ALL WICKS CHANGED EXCEPT R1. ALL OIL REPLACED.'.
**21.08.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NO.3 HEAD CHANGED. A/C CRACKED.'.
**21.08.1992** Service defect: 'B - FUEL SYSTEM - FUEL GAUGE CHANGED. ACCOUNT NOT WORKING.'.
**21.08.1992** Service defect: 'B - MECHANICAL EQUIPMENT - T/M BLOWER BELTS REPLACED BOTH ENDS.'.
**21.08.1992** Service defect: 'B - OTHER BODY REPAIRS - R.H.S SEAT CHECKED OK. R.H.S WIPER REPAIRED.'.
**21.08.1992** Service defect: 'B - TRACTION MOTOR - NO.4 T/M CLEANED OUT ACCOUNT OIL AND WATER. NO.4 T/M ARMATURE ZERO OHMS.'.
**22.08.1992** Service defect: 'UN - NO FAULT FOUND - NO ELECTRICAL FAULT FOUND. REPORTED AS POWER CONTACTORS CUTTING IN AND OUT.'.
**29.08.1992** Service defect: 'UN - BLOCKED FILTERS - FUEL FILTERS CHANGED A/C FILTERS BLOCKED - NO FUEL PRESSURE.'.
**13.10.1992** Service defect: 'UN - TRACTION MOTOR - T/MOTOR COVERS REPLACED.'.
**13.10.1992** Service defect: 'UN - VIGILANCE - VIGILANCE MOD COMPLETED, VIG TESTED OK.'.
**12.11.1992** Service defect: 'SW - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGE COMPLETED.'.
**12.11.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - SOUND WARNING - HOOTER MODS COMPLETED.'.
**18.02.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - WICKS CHANGED ON NO1 AXLE.'.
**18.02.1993** Service defect: 'A - EXHAUST - EXHAUST STACK BAFFLES REPAIRED.'.
**18.02.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'END PACKAGE & 'B'END PACKAGE CHANGED.'.
**18.02.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDER PIPE & BRACKET REPAIRED.'.
**18.02.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - FAN CONTROL BOX REPLACED.'.
**18.02.1993** Service defect: 'A - SLIP RING ON EDDY CURRENT CLUTCH TO MONITOR,A/C'.
**18.02.1993** Service defect: 'A - DEEP GROOVING. L/H RAD LEAKING. INJECTORS TO'.
**18.02.1993** Service defect: 'A - MONITOR.18/2.'.
**23.03.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED COMPLETED.'.
**24.08.1993** Service defect: 'SW - BOGIE - BROAD GAUGE BOGIES FITTED. BOGIES PAINTED. SENT TO Q/FIX

FOR T/W AND TRIAL RUN - WICK CHECK.'.
**26.08.1993** Service defect: 'C - GENERAL - WIPER MOTOR AIR HOSE REPLACED.'.
**26.08.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - TWO SANDING MAGNET VALVES REPLACED.'.
**26.08.1993** Service defect: 'C - TRACTION MOTOR - NO.3 T/M INCORRECTLY WIRED ON BOGIE CHANGE. RECTIFIED.'.
**02.09.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER REPAIRED.'.
**17.09.1993** Service defect: 'UN - EXHAUST - ALL EXHAUST JOINTS & AIR GASKETS REPLACED. EXHAUST STACK REPAIRED.'.
**17.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE HOSE REPLACED.'.
**23.09.1993** Service defect: 'UN - ENGINE - ONE WATER ELBOW TO HEAD REPLACED, A/C CRACKED.'.
**23.09.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED, A/C NOISE WHEN UNDER LOAD. TURBO AIR MOD FITTED. TURBO BOOST GAUGE REPLACED, EX 852.'.
**23.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - FEED VALVE REPLACED.'.
**05.10.1993** Service defect: 'TW - FUEL PUMP MOTOR - FUEL PUMP MOTOR REPLACED A/C PROP SEIZED.'.
**12.11.1993** Service defect: 'TS - TRACTION MOTOR - CABLES AA AND FF RUBBER BOOTS ON NO 6 T/M REPLACED, AA LUG REPLACED ON CABLE.'.
**23.11.1993** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - NEW BEARINGS REPLACE ON NO 3 AXLE, A/C U/S. DIRECTION TESTEDOK.'.
**23.11.1993** Service defect: 'A - EXHAUST - STACK REPAIRED, EXHAUST GASKETS REPLACED.'.
**23.11.1993** Service defect: 'A - PEE PIPE - 'D'TYPE MAGNET VALVE REPLACED.'.
**29.11.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER UNIT REPLACED.'.
**08.12.1993** Service defect: 'TS - EXHAUST - LONG EXHAUST CONNECTOR REPLACED, A/C CRACKED.'.
**08.12.1993** Service defect: 'TS - MECHANICAL EQUIPMENT - BOOST PRESSURE GAUGE LINE REPLACED, A/C DAMAGED. BOOST 12PSION TEST.'.
**10.12.1993** Service defect: 'UN - AIR CONDITIONING - AIR-CON. UNIT CHECKED BY OUTSIDE COMPANY.'.
**24.12.1993** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMP TIMING RESET,ONE FUEL PUMP CHANGED.'.
**30.12.1993** Service defect: 'UN - EXHAUST - EXHAUST STACK REPAIRED A/C BAFFLES LOOSE INSIDE AND BROKEN OFF.STACK TO BE REPLACED WHEN ONE BECOMES AVAILABLE.'.
**31.12.1993** Service defect: 'UN - VIGILANCE - TIMING CHOKE PARTIALLY BLOCKED OFFMODIFICATION,DOUBLE CHECK VALVE GASKETS REPLACED.'.
**13.01.1994** Service defect: 'TS - AIR CONDITIONING - AIR-COND. ROOF LEAKS REPAIRED. AIR-COND TO RE-GAS. RELEASED TO TRAFFIC. MR.B. YATES ADVISED.'.
**20.01.1994** Service defect: 'UN - ENGINE - TURBO AIR INTAKE DUCT REPAIRED, A/C CRACKED. NEW INTAKE FILTERS INSTALLED, A/C DIRTY.'.
**20.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL AIR PRESSURE PIPE REPAIRED, A/C LEAKING.'.
**20.01.1994** Service defect: 'UN - OTHER BODY REPAIRS - DOOR LATCH REPAIRED ON NOSE DOOR, A/C WOULD'NT STAY CLOSED.'.
**18.02.1994** Service defect: 'D - BOGIE MAINTENANCE - WICKS - R6 WICK REPLACED AND CAP CLEANED OUT, A/C CRATER IN CAP - GEAR CASE TIGHTENED.'.
**18.02.1994** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE FAULT REPAIRED.'.
**18.02.1994** Service defect: 'D - OVERHEATING - HOT ENGINE ALARM - HOT ENGINE THERMOSTAT REPLACED, ADJUSTED TO 90DEGS CENT. TESTED RAD FAN SETTINGS - OK.'.
**28.02.1994** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B'END RECEPTICAL NO 16 PIN (FUEL PUMP) FOUND VERY DIRTY ANDSLIGHTLY PITTED, CLEANED UP OK. TRAIN LINE CHECKED OK.'.
**28.02.1994** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HOT ENGINE TEMPERATURE SWITCH ADJUSTED TO 90DEGS CENT. PUT FAN BACK IN AUTO. LT 250V = 2M. HT 500V = 1.5M.'.
**04.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TROULBESHOOTING TRAINLINE AND ETS CIRCUIT, A/C EMD LOCOS DROPPED LOAD WHEN ETS OPERATES ON 874 WHEN IN MU CONNECTION.'.
**22.03.1994** Service defect: 'TW - OVERHEATING - CONTINUOUS HOT ENGINE OPERATED. FAN OPERATION CHECKED OK. RADIATORS CHECKED OK. OIL AND WATER CHECKED OK.'.
**22.03.1994** Service defect: 'TW - THERMOSTAT SETTING TO CHECK, A/C HOT ENG. LIGHTS'.
**22.03.1994** Service defect: 'TW - OPERATED SEVERAL TIMES, FAN CHECKED OK.22/3/94.'.
**06.04.1994** Service defect: 'UN - AIR CONDITIONING - NEW CONDENSER FAN INSTALLED. LEAKS REPAIRED. REGASSED.'.
**06.04.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WHEELSLIP & BCP GLOBES AND LENSES REPLACED.'.
**06.04.1994** Service defect: 'UN - GENERAL - ANTI SLIP MATERIAL REPLACED ON STEPS.'.
**03.05.1994** Service defect: 'UN - FUEL SYSTEM - FUEL PRESSURE ADJUSTED.'.
**11.05.1994** Service defect: 'A - GENERAL - ALL DOOR SEALS AND WINDOW SEALS REPLACED.'.
**11.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CHANGED.'.
**11.05.1994** Service defect: 'A - OVERHEATING - HOT ENG THERMOSTAT CHANGED AND MOVED.'.
**06.06.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 5 T/MOTOR REPLACED, A/C GROUND RELAYS.'.
**99.99.9999** Service defect: 'B - B SCHEDULED SERVICE'.

**875**

Details: locomotive '875 T' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $198950
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L33
**Date Built:** 01.01.1959
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** STORED PUG
**BSG Code:** LEAS

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| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Last Lift: | 30.05.1994 | | |
| SW Service Mileage: | 199691 KM | SW Service Date: | 22.01.1993 |
| A Service Mileage: | 1457656 KM | A Service Date: | 23.11.1993 |
| B Service Mileage: | 1390416 KM | B Service Date: | 02.08.1991 |
| D Service Mileage: | 1437720 KM | D Service Date: | 28.09.1993 |
| F Service Mileage: | 16 KM | A Service Date: | 30.05.1994 |
| US Service Mileage: | 1493878 KM | A Service Date: | 10.05.1994 |

**24.07.1986** Alteration complete 'RENUMBER INDIVIDUAL LOCOMOTIVES AND RAIL CARS AS LISTED. 500 TO 534, 600 TO 607, 700 TO 706, 800 TO 810, 830 TO 875, 930 TO 967 250 TO 261, 280 TO 283 & 100 TO 107 (RS4140)'.
**31.08.1989** Service defect: 'TW - COOLING SYSTEM WATER PUMP - WATER PUMP REPL.'.
**31.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPL.'.
**31.08.1989** Service defect: 'TW - FUEL SYSTEM - FUEL TANK REPAIRED.(LEAKING)'.
**31.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**31.08.1989** Service defect: 'TW - GENERAL - *NOTE- SPEEDO ON LOCO WAS 843944K/M'.
**16.11.1989** Service defect: 'B - AUXILLARY MACHINES - (2)BRUSHES REPL.ON AUX.GENERATOR.'.
**16.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (2)LAMPS REPL.'.
**16.11.1989** Service defect: 'B - GENERAL - *SPEEDO ON LOCO WAS 846378 K/M.'.
**16.11.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (13)BRUSHES REPL.'.
**16.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (18)BLOCKS REPL.& ADJ.'.
**16.11.1989** Service defect: 'B - RADIO REPAIR - RADIO NEEDS REPL.(MODIFYING)'.
**16.11.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**02.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 5 GLOBES REPLACED'.
**02.08.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 5 MAIN GENERATOR BUSHES REPLACED'.
**02.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE RENEWED'.
**02.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED'.
**02.08.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED,NO.1 MOTOR CABLES SECURED'.
**19.05.1992** Reclassified from locomotive '875 T' to ' locomotive 'ALCO 875 V'.
**13.11.1992** Repair 'VEHICLE RECLASSIFY'.
**13.11.1992** Issued at location 'Australian National' with a previous code of locomotive 'ALCO 875 V'
**21.04.1993** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT BRACKET HAD WELD GROUND FLAT AND BROKEN HEADLIGHT REPLACED.'.
**18.05.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED TWO BLOCKS CHANGED.'.
**18.05.1993** Service defect: 'TW - ELECTRICAL MISC. GROUND RELAY - EARTH FAULT ON BATTERY AMMETER SHUNT.'.
**18.05.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - GAUGE LIGHTS NOT WORKING - REPAIRED.ENGINE ROOM LIGHT FITTING BROKEN - REPLACED.'.
**26.05.1993** Service defect: 'TW - CARBODY FILTERS - CAR BODY FILTER FALLEN OUT - REPLACED.'.
**26.05.1993** Service defect: 'TW - DIRT COLLECTORS/STRAINERS - AIR COMPRESSOR FILTERS RESTRAINER CLIPS LOOSE - FILTER BODY REPAIRED.'.
**26.05.1993** Service defect: 'TW - MARKER LIGHTS - REAR MARKER LIGHT RHS LAMP HOLDER BURNT OUT CONTACTS - LAMP FITTING REPLACED.'.
**26.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR DRAINS REALIGNED.'.
**07.07.1993** Service defect: 'UN - ENGINE OIL - ENGINE OIL CHANGED - WATER IN OIL.'.
**07.07.1993** Service defect: 'UN - OIL FILTERS - OIL FILTERS CHANGED DUE TO OIL IN WATER.'.
**21.10.1993** Service defect: 'TW - MAIN GENERATOR - MAIN GENERATOR OIL SOAKED - WASHED OUT WITH WHITE SPIRITS.'.
**11.11.1993** Service defect: 'TW - MAIN GENERATOR - MAIN GENERATOR SPRAYED CLEAN DUE TO OIL CONTAMINATION.'.
**04.12.1993** Service defect: 'TW - ENGINE CYLINDER HEADS - #5 HEAD'.
**21.01.1994** Service defect: 'TW - MAIN GENERATOR - MAIN GENERATOR OIL CONTAMINATION CLEANED OUT.'.
**99.99.9999** Service defect: 'F - F SCHEDULED SERVICE & DA CONVERSION'.

**900**

Details: locomotive '900 R' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 19.3m
**Tare Weight:** 127.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** A1A-A1A
**Original Cost:** $228710
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB L-7
**Date Built:** 10.09.1951
**Operating System:** ON LOAN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 27.7.85;ON LOAN TO MERM;LADY NORRIE
**BSG Code:** LBSO

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| Return to Service Date: | 06.12.1984 |
| Last Lift: | 02.03.1978 |

**901**

Details: locomotive '901 D' in AN 'Mainland Division'.

**Owner:** ARHS
**Operator:** D
**Length Over Headstocks:** 19.3m
**Tare Weight:** 127.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** A1A-A1A
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 10.09.1951
**Operating System:** ARHS
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**BSG Code:** LMSO

**907**

Details: locomotive '907 L' in AN 'Mainland Division'.

**Owner:** ARHS
**Length Over Headstocks:** 19.3m
**Tare Weight:** 127.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** A1A-A1A
**Original Cost:** $228710
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-7
**Date Built:** 25.03.1953
**Operating System:** ARHS
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 24.08.85;SOLD TO ARHS
**BSG Code:** LBSO

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| Return to Service Date: | 31.05.1984 |
| Last Lift: | 01.09.1978 |

**909**

Details: locomotive '909 G' in AN 'Mainland Division'.

**Owner:** ARHS
**Length Over Headstocks:** 19.3m
**Tare Weight:** 127.8tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** A1A-A1A
**Original Cost:** $228710
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-7
**Date Built:** 10.07.1953
**Operating System:** ARHS
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 24.08.85;SOLD TO ARHS
**BSG Code:** LBSO

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| Return to Service Date: | 11.07.1984 |
| Last Lift: | 31.10.1979 |

**931**

Details: locomotive '931 E' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.7m
**Tare Weight:** 103.2tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $237920
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-8
**Date Built:** 29.03.1956
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** STORED
**BSG Code:** LBAM

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| Corporate ID flag: | Y | | |
| Return to Service Date: | 22.09.1993 | | |
| Last Lift: | 15.07.1986 | | |
| SW Service Mileage: | 728597 KM | SW Service Date: | 22.06.1993 |
| A Service Mileage: | 731126 KM | A Service Date: | 01.07.1993 |
| B Service Mileage: | 628117 KM | B Service Date: | 16.03.1992 |
| C Service Mileage: | 756888 KM | C Service Date: | 22.09.1993 |
| D Service Mileage: | 715715 KM | D Service Date: | 06.04.1993 |
| E Service Mileage: | 488304 KM | A Service Date: | 04.07.1990 |
| WT Service Mileage: | 654062 KM | WT Service Date: | 17.07.1992 |
| US Service Mileage: | 739453 KM | A Service Date: | 30.07.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**26.07.1989** Service defect: 'UN - GENERAL ACCIDENT - LONG FUEL SIGHT GLASS REPLACED A/C MISSING.LHS ENGINE ROOM STEP REPLACED A/C DAMAGED.A/C COLLISION WITH ROAD VEH.IN VIC'.

**10.08.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOLT HOLDING 41DD TO WSR RESISTORS SHORTED OUT TO FRAME.BOLTCUT OFF & TIGHTENED RESISTOR.P-500K.'.

**27.08.1989** Service defect: 'UN - AUXILLARY MACHINES - REAR BEARING/REAR TM BLOWER CHANGED A/C NOISY.'.
**04.09.1989** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R4 WICK RENEWED.'.
**07.09.1989** Service defect: 'TS - TRACTION MOTOR - NO2 TM CHANGED A/C EARTH ON FIELDS.(IN 31 OUT C66). NO3 TM CHANGED A/C FLATS ON COMM.(IN 139 OUT 44).'.
**28.10.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FUEL PUMP CIRCUIT BREAKER CHANGED A/C TRIPPING.'.
**01.11.1989** Service defect: 'UN - DYNAMIC BRAKE POT TO REPLACE A/C BLOWN - NIL'.
**01.11.1989** Service defect: 'UN - SPARES IN STOCK'.
**03.11.1989** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - D/BRAKE PONTENTIOMETER REPLACED A/C BURNT OUT.'.
**15.11.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L6,R6 WICKS REPLACED A/C DIRTY.'.
**15.11.1989** Service defect: 'A - FUEL SYSTEM PUMP - FUEL PUMP CHANGED A/C COMMUTATOR BURNT.'.
**11.12.1989** Service defect: 'UN - TRACTION MOTOR - NO 4 TM CHANGED A/C PINION END BEARING.(IN 15 OUT 29).'.
**11.01.1990** Service defect: 'UN - TRACTION MOTOR EARTH - NO 6 T.M. CHANGED A/C BANDING.(OUT 156 IN C86).'.
**06.02.1990** Service defect: 'UN - TRACTION MOTOR - NO5 TM CHANGED A/C PINION END BEARING.(IN C36 OUT 32).'.
**12.02.1990** Service defect: 'UN - AUXILLARY MACHINES - TO IW FOR AUX GEN CHANGE.'.
**13.02.1990** Service defect: 'SW - AUXILLARY MACHINES - AUX GENERATOR CHANGED A/C BEARING FAILURE'.
**13.02.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - SANDING MAGNET VALVE REPLACED A/C MISSING'.
**13.02.1990** Service defect: 'SW - LUBRICATING SYSTEM OIL COOLER - LEFT HAND BANK INTERCOOLER ELEMENT CHANGED ON COMPRESSOR A/C LOOSE PIPE IN ELEMENT'.
**26.02.1990** Service defect: 'UN - TRACTION MOTOR - NO4 TM CHANGED A/C PINION END BEARING.(IN 70 OUT 15).'.
**06.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO4 WHEELSET CHANGED A/C FLATS.'.
**07.03.1990** Service defect: 'WT - BRAKES TO ADJUST MILE END'.
**08.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**13.03.1990** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - NO4 WICK CHECKED OK.'.
**21.03.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BOOKED FOR G/RELAY.NO4 TM FLASHED NO VISIBLE CAUSE FOUND. MEGGERED 300-K.'.
**29.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 4 WICKS & OILS CHANGED.'.
**29.03.1990** Service defect: 'UN - TRACTION MOTOR - NO2 TRACTION MOTOR CHANGED A/C SLIPPED PINION.(IN C23 OUT 31'.
**07.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRAVELS ADJUSTED.'.
**10.04.1990** Service defect: 'UN - GENERAL LOSS OF POWER - LOCO BOOKED FOR STALLING.ALL JUMPER RECEPTACLES CHECKED,NO FAULTS FOUND.'.
**08.05.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR REVS,NO POWER.CK1 CONTACT WELDED IN,REPAIRED.'.
**15.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END AUTO COUPLER CHANGED.'.
**20.06.1990** Service defect: 'UN - BLOCKED FILTERS - ALL PANEL FILTERS CHANGED.'.
**04.07.1990** Service defect: 'E - BOGIE MAINTENANCE - WICKS - R1,L2,R5 WICKS REPLACED.'.
**05.07.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON NUMBER LIGHTS REPAIRED.'.
**10.07.1990** Service defect: 'FA - CONTACTOR EP VALVES - REGENERATIVE INTERLOCK MAGNET VALVE REPLACED.'.
**10.07.1990** Service defect: 'FA - ELECTRICAL MISCELLANEOUS - ENGINE CONTROL PANEL REPLACED.'.
**10.07.1990** Service defect: 'FA - ENGINE GOVERNOR ELECTRICAL - PILOT VALVE IN GOV REPLACED.STABILIZING RHEOSTAT IN GOV REPLACED.'.
**07.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INTERLOCK VALVE CHANGED A/C BRAKE NOT APPLYING IN AUTO.'.
**14.08.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C COPPER DRAG.P-350K.'.
**31.08.1990** Service defect: 'UN - AUXILLARY MACHINES - REAR TM BLOWER BEARING & HOUSING REPLACED.'.
**31.08.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - L6 CYLINDER HEAD REPLACED.'.
**10.09.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3 WICK REPLACED.'.
**11.10.1990** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - FUSE IN VOLTAGE REGULATOR CHANGED,CK1-CK2 CLEANED.REPAIRED AT MT GAMBIER.'.
**23.10.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - BOOKED FOR TRANSITION FAULT,FAULT ON BL34.'.
**08.11.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CHECKED,OK A/C GROUND RELAY.P-200K.'.
**08.11.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - TM'S NOT CHECKED A/C TO DIRTY.'.
**15.11.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT TRAIN LINE RESISTOR REPLACED.LAMP HOLDER IN ENGINE ROOM REPLACED.'.
**15.01.1991** Service defect: 'TS - ELECT - RECEPTACLES/INTER CAR COUPLINGS - WIRES REPAIRED A/C COMPRESSOR UNLOADING FAULT AT REAR JUMPER RECEPTACLES'.
**15.01.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - BURNT WIRES REPLACED AT REAR JUMPER TERMINAL BOARD.51BB,51L @ 52 WIRES REPAIRED.'.
**01.02.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - CHECKED OK IN DEPOT, 'B'END JUMPER CABLE TESTED OK.A/C GRS.'.

**01.02.1991** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL LEAK ON R1 REPAIRED,FUEL PUMP FITTING TIGHTENED.'.
**14.02.1991** Service defect: 'TS - RADIATOR/PRESSURISING FAN - FAN SPEEDS REPAIRED.'.
**22.02.1991** Service defect: 'A - ENGINE CYLINDER HEADS - CHANGED CONNECTOR (BELLOW) R/ HAND SIDE TO HEADS 1,2,3.'.
**12.03.1991** Service defect: 'UN - TRACTION MOTOR - LUG REPLACED ON NO.5 T/MOTOR A/C BURNT OFF'.
**05.04.1991** Service defect: 'UN - DYNAMIC BRAKE - SPARKS FROM PEDESTAL IN D/BRAKE - D/BRAKE POT REPLACED.'.
**05.04.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FUEL PUMP AND BATTERY C/BREAKER REPLACED.'.
**05.04.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REG NOT CHARGING - VOLTAGE REGULATOR REPLACED AND SET UP TO 72.8V IN NO8.'.
**09.04.1991** Service defect: 'UN - COOLING SYSTEM - TURBO WATER HOSE (INLET) REPLACED A/C LEAKING'.
**27.05.1991** Service defect: 'UN - LUBRICATING SYSTEM - BOLTS TIGHTENED AROUND TURBO END,A/C FUEL LEAKS.'.
**27.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - REPLACED 0-30 BOOSTER GAUGE & NEW GLASS IN FUEL GAUGE'.
**27.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAKS REPAIRED IN CAB NOSE COMPARTMENT.'.
**25.06.1991** Service defect: 'C - TRACTION MOTOR EARTH - NO2 T/MOTOR REPLACED,A/C EARTH,INTERPOLES DOWN.'.
**28.06.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - CHANGED NO 2 WICKS,CHECKED BEARINGS.'.
**28.06.1991** Service defect: 'UN - GENERAL - FITTED DOOR SEAL LEFT SIDE ENTRENCE.'.
**16.08.1991** Service defect: 'UN - BOGIE - BOGIE CHANGE COMPLETED.EX 938.OUT 'A'END- 63,IN-59.'B'END-OUT-64,IN-54.T/M'S OUT-I,761/C62,135,139,70,C36 & C86.'.
**25.09.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - CHANGED FUEL PUMP A/C COMMUTATOR U/S.'.
**25.09.1991** Service defect: 'A - EXHAUST MANIFOLD R/H/S TO WELD CRACKED.'.
**06.11.1991** Service defect: 'UN - BOGIE - BOGIE CENTRE PLATES REWELDED,A/C LISTING TO LEFT.TRACK TESTED OK.'.
**15.11.1991** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 5 GRIDS REPLACED,A/C INSULATION & MESH FROM STACKS FELL INTO GRID AREA RESULTING IN 5 BLOWN GRIDS.'.
**13.03.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 5 WICKS CHANGED NO.2 BOGIE.'.
**13.03.1992** Service defect: 'A - COOLING SYSTEM WATER PUMP - WATER PUMP REPLACED.A/C LEAKING.'.
**13.03.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - MAIN GEN. RISERS BRUSHED OUT. AUX. GEN. COMMUTATOR VEED OUT.'.
**08.05.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK,A/C GR'S.LOCO TRACK TESTED OK.'.
**25.05.1992** Service defect: 'A - GENERAL LOSS OF POWER - NO FAULT FOUND ON DYNAMIC CIRCUIT.'.
**02.06.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE TANK REASSEMBLED,A/C INSULATION REPAIRS,A/C GR'S IN D/BRAKE - MEGGER & POWER/DYN TESTED OK.'.
**26.06.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO. 4 WHEELSET INSTALLED.-DIRECTION TESTED OK.'.
**26.06.1992** Service defect: 'UN - TRACTION MOTOR - NO.4 T/M CHANGED.'.
**16.07.1992** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO.3 WHEELSET CHANGED.WHEELSET EX 955 USED.-WHEELS GAUGED READY FOR WHEEL LATHE.'.
**16.07.1992** Service defect: 'TS - TRACTION MOTOR - NO.3 T/M REPLACED WITH T/M FROM 955.'.
**17.08.1992** Service defect: 'UN - DYNAMIC BRAKE - GAURD SHORTING ON CABLES. GAURD RESECURED.'.
**17.09.1992** Service defect: 'UN - TRACTION MOTOR - NO.4 T/M AND WHEEL SET REPLACED EX 955. A/C TRACTION MOTOR CABLES WERE BURNT.'.
**23.09.1992** Service defect: 'TS - DYNAMIC BRAKE - 3 GRIDS REPLACED, A/C GR'S.DYNAMIC SET UP, TRIAL RUN - MAX GRID CURRENT 410A.'.
**04.11.1992** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 2 WHEELSET CHANGED.'.
**04.11.1992** Service defect: 'TS - ENGINE - R6 REPLACED, A/C BENT PUSH ROD.'.
**04.11.1992** Service defect: 'TS - GENERAL ACCIDENT - DERAILMENT REPAIRS COMPLETED. ALL BRAKE GEAR REFITTED, SHUNTERS STEPS REFITTED.'.
**04.11.1992** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED, A/C HOT PINION SUSP BEARING.T/M IN 7221001. T/M OUT-7280081.'.
**13.11.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - CABLE ON T/M COVERED,A/C RUBBED THROUGH TO FRAME.'.
**30.11.1992** Service defect: 'TS - ENGINE WATER LEAK - R2 WATER GASKET REPLACED, A/C WATER LEAK.'.
**11.01.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - CK1 CONTACTS REPLACED.CK2 CONTACTSCLEANED.OK.'.
**11.01.1993** Service defect: 'A - GENERAL - SHORT TURBO CONCERTINAS LEAKES REPAIRED.'.
**27.01.1993** Service defect: 'UN - AUXILLARY MACHINES - CRANK CASE EXHAUSTER REPLACED A/C EARTH. KEPT TRIPPING CIRCUIT BREAKER.'.
**13.03.1993** Service defect: 'UN - EXHAUST - RHS SHORT EXHAUST CONNECTOR CHANGED'.
**19.03.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INSTALLATION COMPLETED.EXHAUST REPAIRED & REPLACED. EXTERNAL AIR SUPPLY FITTED & TESTED OK.'.
**26.03.1993** Service defect: 'UN - BATTERY MAINTENANCE - 3 BATTERIES REPLACED, 200 A CIRCUIT BREAKER REPLACED. LOCO STARTED OK.'.
**06.04.1993** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L1,L3,L4,L5,L6,R1,R2,R3, & R6 WICKS REPLACED.'.
**06.04.1993** Service defect: 'D - ELECTRICAL MISCELLANEOUS - CABLE FROM SPEEDO TO TB IN

CONTROL STAND REPAIRED,A/C CABLE U/S.'.
**22.06.1993** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED,BOGIES EX 934. DIRECTION TESTED OK.'.
**22.06.1993** Service defect: 'SW - TRACTION MOTOR - NO 2 T/MOTOR CHANGED.'.
**01.07.1993** Service defect: 'A - GENERAL - DRIVERS SEAT & ARM REST REPLACED. RETIGHTEN 'B'END SAFETY BOLTS.'.
**05.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - FIRE MANS SIDE SEAT REPLACED.'.
**30.07.1993** Service defect: 'UN - EXHAUST - EXHAUST LEAK REPAIRED, CHECKED OK.'.
**18.08.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - 931 - P=300K OHMS. C=50K OHMS.'.
**18.08.1993** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN. HAD SEVERAL SMALL FLASHES. COMM. BRUSHED AND BLOWN OUT. 'V' RING CLEANED. COMM. POLISHED.'.
**18.08.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - NO.3 T/M COMMUTATOR TO MONITOR FOR FLATS A/C ALL OUTSIDE BRUSHES CRACKED AND PIG TAILS BURNT.'.
**18.08.1993** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO.3 T/M FLASHED AND BURNT ALL PIGTAILS OFF. BRUSHES ALL CHANGED. 'V' RING PAINTED.'.
**22.09.1993** Service defect: 'C - LOCO STORED.22/9/93'.

**932**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**14.07.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CK2-MAIN GEN HOT LUG REPLACED.CK2 CONTACT REPLACED A/C LOOSE'.
**14.07.1989** Service defect: 'UN - BATTERIES TO CHECK'.
**19.07.1989** Service defect: 'SW - BATTERY MAINTENANCE - NEW SET OF BATTERIES FITTED.(IN 6225-6232).'.
**12.08.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,R6 WICKS REPLACED.'.
**22.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - R3 WICK & OIL CHANGED.NO3 SEAL RING REPLACED.'.
**05.10.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - INSULATION RERAIRED AT S31.'.
**07.12.1989** Service defect: 'SW - BOGIE - BOGIE CHANGED COMPLETED'.
**07.12.1989** Service defect: 'SW - GENERAL ACCIDENT - ENGINE & MAIN GENERATOR MOUNTING BOLTS CHECK A/C DERAILMENT'.
**15.12.1989** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED'.
**15.12.1989** Service defect: 'SW - TRACTION MOTOR - NO 2 TRACTION MOTOR CHANGED'.
**15.12.1989** Service defect: 'SW - LIGHT RUN T B ,FULL WICK INSP.'.
**10.01.1990** Service defect: 'UN - TRACTION MOTOR - NO5 TM CHANGED A/C COLLAPSED PINION BEARING.(IN 146 OUT C81)'.
**10.01.1990** Service defect: 'UN - BEARINGS TO RUN IN NO 5 W/SET RN.'.
**02.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTS ON S31 REPLACED A/C BURNT.'.
**02.02.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - COIL ON CR2 RELAY REPLACED A/C OPEN CIRCUIT.'.
**02.02.1990** Service defect: 'UN - MAIN GENERATOR BRUSHES - M/GEN WASHED OUT & ALL BRUSHES CHANGED.'.
**08.02.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - M/GEN V RING/ISULATORS CLEANED A/C SLIGHT FLASH.P-100K.'.
**04.03.1990** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR SHUTTING DOWN.IDLE ADJ TO 960,NOTCH 8 ADJ FROM 2460 TO 2400.OVERSPEED 2760.'.
**10.03.1990** Service defect: 'TS - GENERAL SHUTDOWN - ENGINE BOOKED FOR SHUTTING DOWN.STABILISER RHEOSTAT FRONT CONTACT LOOSE,TIGHTENED.'.
**05.04.1990** Service defect: 'TS - ENGINE CYLINDER HEADS - R4 CYL HEAD CHANGED.'.
**05.04.1990** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.

**934**

Details: locomotive '934 X' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 103.2tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $237920
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-8
**Date Built:** 01.11.1956
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 12.02.94
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 16.01.1993 | | |
| Last Lift: | 12.11.1981 | | |
| SW Service Mileage: | 1246935 KM | SW Service Date: | 03.12.1992 |
| A Service Mileage: | 1191169 KM | A Service Date: | 18.06.1992 |
| B Service Mileage: | 1161518 KM | B Service Date: | 26.02.1992 |
| C Service Mileage: | 1234599 KM | C Service Date: | 22.10.1992 |
| D Service Mileage: | 1074225 KM | D Service Date: | 09.11.1990 |
| E Service Mileage: | 817242 KM | A Service Date: | 31.03.1988 |
| WT Service Mileage: | 1132630 KM | WT Service Date: | 09.08.1991 |
| US Service Mileage: | 1257191 KM | A Service Date: | 19.12.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**07.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L2 WICKS REPLACED.'.
**14.07.1989** Service defect: 'UN - TRACTION MOTOR - NO3 TM CHANGED A/C PINION END BEARING.(IN C57

OUT C10). NO5 TM CHANGED A/C EARTH ON ARMATURE.(IN 38 OUT 250).'.

**03.08.1989** Service defect: 'UN - GENERAL - THROTTLE SELECTOR HANDLE LUBRICATED.'.

**10.10.1989** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR CHANGED.'.

**17.11.1989** Service defect: 'SW - GENERAL - TWO NEW CONCERTINA BELLOWS FITTED * LOCO NUMERALS REFITTED ALL CAB WINDOWS & DOOR SEALS CHECKED & REPAIRED AS REQUIRED'.

**29.11.1989** Service defect: 'UN - COOLING SYSTEM - WATER HOSE FROM WATER PUMP TO TURBO RENEWED.'.

**29.11.1989** Service defect: 'UN - FUEL SYSTEM - FUEL PRESSURE ADJUSTED FROM 5PSI TO 25PSI.'.

**19.12.1989** Service defect: 'UN - TRACTION MOTOR - NO2 TM CHANGED A/C PINION END BEARING.(IN 109 OUT S14).'.

**21.12.1989** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO2 WHEELSET CHANGED.'.

**21.12.1989** Service defect: 'SW - TRACTION MOTOR - NO2 TM CHANGED A/C WHEELS.(IN 89 OUT 109).'.

**21.12.1989** Service defect: 'SW - REAR TRACTION MOTOR BLOWER MOUNTING CRACKED'.

**11.01.1990** Service defect: 'UN - COOLING SYSTEM OVERHEATING - REPLACED COIL IN FAN CONTACTOR.'.

**24.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R1,R4,R5,L1,L2,L4 WICKS & OIL CHANGED.'.

**08.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - REPLACED LUG ON 31A WIRE ON DBF A/C BROKEN.'.

**15.03.1990** Service defect: 'UN - OVERHEATING - BOOKED FOR HOT ENGINE.RADIATORS & FAN DRIVE CHECKED OK.'.

**22.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END AUTO COUPLER CHANGED A/C COLLISION.'.

**01.04.1990** Service defect: 'UN - VIGILANCE - EMERGENCY VALVE REPLACED.'.

**10.04.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C G/RELAYS.'.

**10.04.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - ALL TM'S CLEANED.NO6 TM GROUND.P-400K.'.

**04.05.1990** Service defect: 'TS - OTHER BODY REPAIRS - DRIVERS SIDE STEP CHANGED A/C DAMAGED.'.

**04.05.1990** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO6 TM CHANGED A/C BURNT INSULATION.(IN C21 OUT 85).'.

**08.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE TO LOWER MAIN RES REPAIRED A/C CRACKED.'.

**15.05.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.OC VOLTS 20 VOLTS LOW,ADJUSTED TO 880V.'.

**24.05.1990** Service defect: 'UN - WHEELSLIP - BOOKED FOR WHEELSLIP IN NUETRAL.NO FAULT FOUND IN DEPOT.'.

**31.05.1990** Service defect: 'UN - 'A'END BOLSTER CRACKED.31/5*'.

**03.06.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - BOOKED FOR HIGH NOTCH 1 AMPS.MAIN & FS CONTACTORS & TRANSI- TION RELAYS CHECKED OK.'.

**03.06.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C FLASHED.'.

**03.06.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 2 BRUSHES REPLACED IN NO6 TM A/C FLATS.TM'S CLEANED.P-100K.'.

**05.06.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED,V RING PAINTED.P-200K.'.

**05.06.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO4 TM CABLE RUBBED THROUGH,REINSULATED.NO6 TM CABLE DAMAGEDREINSULATED.'.

**05.06.1990** Service defect: 'UN - MAIN GEN RISERS FILTHY.5/6*'.

**10.06.1990** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - 'A'END BOLSTER CHANGED.'.

**14.06.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED,BRUSHED OUT,RISER BARS CHANGED,5 BRUSHES BEDDED IN,CURED,CHECKED OK.P-200K.'.

**19.06.1990** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.

**19.06.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TLR2 REPLACED.'.

**19.06.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C FLASH OVER.'.

**19.06.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO4,6 TM'S FLASHED A/C FLATS,CLEANED UP.'.

**02.07.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L1,R1,R2,L3,R3 WICK OILS DRAINED,BOXES CLEANED. L1,L3,R3 WICKS REPLACED.'.

**02.07.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN COMM,VEE RING,INSULATORS CLEANED,VEE RING PAINTED. P-75K.'.

**04.07.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - CONTACTS ON P1,P2,S1 REPLACED.'.

**04.07.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - OPEN CIRCUIT VOLTAGE ADJUSTED A/C 40 VOLTS TO HIGH.'.

**04.07.1990** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN INSULATORS CLEANED,VEE RING PAINTED.'.

**20.07.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3,R4,L5 WICKS REPLACED.'.

**01.08.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B'END JUMPER RECEPTACLE REPLACED.'.

**01.08.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - 18A & 71 WIRES REPAIRED A/C SHORTED OUT.'.

**01.08.1990** Service defect: 'UN - LUBRICATING SYSTEM - NO1 OIL FILTER HEAD REPLACED.'.

**29.08.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - WIRING BLOWN OFF REAR MARKER LIGHT SWITCH.REPAIRED.'.

**13.09.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 4 WHEEL SET CHANGED.'.

**13.09.1990** Service defect: 'UN - TO WTM FOR PROFILE, NO 4 WSET'.

**28.10.1990** Service defect: 'TS - TRACTION MOTOR - NO2 TM CHANGED A/C EARTH ON ARMATURE.(IN C99 OUT 89).'.

**06.11.1990** Service defect: 'UN - GENERAL - HANDBRAKE REPAIRED.'.
**21.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE CHANGED.'.
**10.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - SLIDING WINDOW D/S 'A'END REPLACED.'.
**11.01.1991** Service defect: 'TS - TRACTION MOTOR - FAILED PINION - NO4 TRACTION MOTOR REPLACED.'.
**13.02.1991** Service defect: 'UN - EXHAUST - ALL EXHAUST JOINTS TIGHTENED'.
**13.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END DRAFT GEAR REPLACED'.
**21.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVE REPAIRED.A/C BLOWING ON MAIN RES.'.
**26.03.1991** Service defect: 'TS - GENERAL LOSS OF POWER - TESTED IN DEPOT,ENGINE REVS UP OK.A/C LOSS OF POWER OVER NOTCH 5.'.
**26.03.1991** Service defect: 'TS - OTHER BODY REPAIRS - DRIVERS SIDE DOOR REPAIRED.'.
**03.05.1991** Service defect: 'UN - BOGIE - BOGIE CHANGE COMPLETED.'.
**03.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LIMIT CONTROL PANEL & ERTA CHANGED,A/C NOTCH 1 OVER EXCITATION.LOCO CHECKED OK.'.
**03.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED EX 944 A/C SPEEDO TAKEN FOR 607.'.
**28.05.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - MOTORS 1,2,& 3 & GEN - 0 TO EARTH. MEGGERED OK.TESTED IN DYN& POWER OK.350K.'.
**04.06.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - DYN/BRAKE TANK REPLACED,P= 60K.A/C GR'S IN DYN/BRAKE.'.
**03.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - FLEXIBLE HOSE FROM HP HEAD OF COMPRESSOR REPAIRED,A/C BLOWN OUT.'.
**15.07.1991** Service defect: 'UN - EXHAUST - EXHAUST CONCERTINA REPLACED, A/C CRACKED.'.
**25.07.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 4 WICKS CHANGED.'.
**25.07.1991** Service defect: 'C - INJECTORS NOT CHANGED ON 'C' SERVICE,NIL STOCK MPC'.
**25.07.1991** Service defect: 'C - 25/7.'.
**04.09.1991** Service defect: 'TS - ENGINE CYLINDER HEADS - R5 HEAD REPLACED,A/C VALVE SEAT MISSING.'.
**04.09.1991** Service defect: 'TS - ENGINE PISTON - R5 PISTON REPLACED.'.
**04.09.1991** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER CHANGED'.
**04.09.1991** Service defect: 'TS - FUEL SYSTEM INJECTORS - INJECTORS REPLACED.'.
**12.09.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - ARCING ON CONTACTOR,A/C ARC CHUTE ON S1 WAS NOT ON PROPERLY.'.
**12.09.1991** Service defect: 'TS - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER REPLACED EX 966,CHECKED OK.'.
**12.09.1991** Service defect: 'TS - MAIN GENERATOR - GEN CHECKED OK.MEGGERED P=100K.'.
**12.09.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO'S 1 & 2 T/MOTORS HAD SLIGHT FLASHOVER.'.
**12.09.1991** Service defect: 'TS - TRACTION MOTOR THROWING SOLDER - NO 4 T/M HAD SOLDER FROM RISER SPLATTERED OVER CABLES & BODYALL MOTORS DIRTY.'.
**27.11.1991** Service defect: 'A - ENGINE - 4 ROCKER COVER GASKETS REPLACED,A/C LEAKING.'.
**27.11.1991** Service defect: 'A - FUEL SYSTEM INJECTORS - INJECTORS CHANGED,A/C OILY STACK.'.
**27.11.1991** Service defect: 'UN - FUEL PUMP MOTOR - FUEL PUMP MOTOR REPLACED,CHECKED OK.'.
**27.11.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO 4 T/MOTOR REPLACED,A/C EARTH.'.
**31.12.1991** Service defect: 'UN - TRACTION MOTOR - NO.1 T/M CHANGED.A/C U/S.CONTINUOUS WHEELSLIP'.
**12.02.1992** Service defect: 'UN - EXHAUST - EXHAUST JOINTS TIGHTENED,CHECKED OK.'.
**12.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN/R AIR LEAK UNDER BRAKE PEDESTAL REPAIRED. DISTRIBUTING VALVE AND INTERLOCK MAGNET VALVE REPLACED.'.
**18.03.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - REAR T/M BLOWER HOUSING CRACK WELDED.'.
**27.03.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR H.P AND L.P HEADS REPLACED.A/C BADLY OVERHEATED. OIL CHANGED.'.
**23.04.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR OVERHAULED,TESTED OK.'.
**08.05.1992** Service defect: 'UN - GENERAL - CAB RESEALED,A/C FUMES.LOCO TRIAL RUN & TESTED OK.'.
**17.05.1992** Service defect: 'SW - DYNAMIC BRAKE - DYN/BRAKE FAN MOTOR REPLACED,A/C FLASHED OVER.LOCO HATCH COVERS INSTALLATION + LOCO MEGGERING & DYN/BRAKE TESTING'.
**18.06.1992** Service defect: 'A - EXHAUST - EXHAUST LEAKS REPAIRED.'.
**18.06.1992** Service defect: 'A - MAIN GENERATOR - MAIN GEN. CLEANED OUT A/C OILY.'.
**18.06.1992** Service defect: 'A - TRACTION MOTOR - NO.ONE T/M REPLACED A/C BANDING COMING OFF RISERS.'.
**04.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO. 5 W/SET REPLACED.'.
**04.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICKS CHECKED OK AFTER TRIAL RUN.'.
**04.08.1992** Service defect: 'UN - TRACTION MOTOR - NO.6 T/M REPLACED A/C BURNT INTERPOLES. NO.5 T/M REPLACED A/C 'A'CABLE DOWN TO FRAME.'.
**04.08.1992** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - SUSPENSION BEARINGS REPLACED ON NO.6 W/SET.'.
**09.10.1992** Service defect: 'UN - TRACTION MOTOR - NO 3 T/MOTOR REPLACED,A/C G/RELAYS.'.
**22.10.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 8 WICKS CHANGED.'.
**22.10.1992** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - M/RES G/F FEMALE FITTING FROM TOP OF COMPRESSOR (LARGE FITTING) REPLACED.'.
**22.10.1992** Service defect: 'C - TRACTION MOTOR - T/MOTOR BRACKET REWELDED.'.
**22.10.1992** Service defect: 'C - 'A'END AUTO COUPLER TO MONITOR,A/C CRACKED.22/10.'.

**16.11.1992** Service defect: 'SW - DYNAMIC BRAKE - D/B REPAIRS COMPLETED.'.
**16.11.1992** Service defect: 'SW - TRACTION MOTOR - NO 5 T/MOTOR CHECKED & MEGGERED OK, 100K.'.
**03.12.1992** Service defect: 'SW - DYNAMIC BRAKE - D/B SET UP. E.R. RHEOSTAT REPLACED, DYN/BRAKE REGULATOR SETAT 500 AMPS'.
**19.12.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - WHEELSLIP RELAYS CHECKED FOR OPERATION A/C L8 BOOKING & CHECKED OK.'.
**19.12.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET DUST GUARD REPLACED.'.
**19.12.1992** Service defect: 'UN - EXHAUST - EXHAUST BOLTS REPLACED.'.
**19.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL PIPE FITTING AT BASE OF PEDESTAL REPLACED, A/C U/S.'.
**11.01.1993** Service defect: 'TS - TRACTION MOTOR - 'B'END T/MOTOR BLOWER CHANGED WITH ONE FROM 955.CHECKED OK.'.
**13.01.1993** Service defect: 'TS - TRACTION MOTOR - BLOWER FAN REMOVED O RING CHANGED.REINSTALED TESTED OK.'.

**935**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**936**

Details: locomotive '936 D' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $241920
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 04.07.1957
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 15.01.94;SCRAPPED 28.07.94
**BSG Code:** LSAM

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 08.03.1992 | | |
| Last Lift: | 27.05.1983 | | |
| SW Service Mileage: | 780457 KM | SW Service Date: | 05.08.1991 |
| A Service Mileage: | 778071 KM | A Service Date: | 09.09.1991 |
| B Service Mileage: | 795591 KM | B Service Date: | 20.01.1992 |
| C Service Mileage: | 756875 KM | C Service Date: | 07.06.1991 |
| D Service Mileage: | 621244 KM | D Service Date: | 07.02.1990 |
| E Service Mileage: | 402155 KM | A Service Date: | 31.12.1987 |
| WT Service Mileage: | 795600 KM | WT Service Date: | 28.01.1992 |
| US Service Mileage: | 796740 KM | A Service Date: | 31.01.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**11.07.1989** Service defect: 'TS - AUXILLARY MACHINES - 'A'END TM BLOWER REPLACED.'.
**14.07.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - AUXILARY CONTACTS NOT MAKING PROPERLY.FEED VALVE CHANGED A/CLOW AIR PRESSURE.'.
**22.07.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - 1 NO.G/RELAY - T/MOTORS & M/GENERATOR CHECKED OK.'.
**28.08.1989** Service defect: 'C - BOGIE - R3 SLACK ADJUSTER REPAIRED.R2 SLACK ADJUSTER CHANGED.'.
**28.08.1989** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L4,L5 WICKS CHANGED.'.
**06.09.1989** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL TRANSFER PUMP CHANGED A/C FAULTY.'.
**11.12.1989** Service defect: 'A - EXHAUST - LOWER EXHAUST CONNECTOR REPLACED.'.
**03.01.1990** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - CHANGED RESISTOR IN REFERENCE PANEL.'.
**09.01.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - M.G.FLASHED,CLEANED INSULATORS & COM,PAINTED V RING.'.
**30.01.1990** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED A/C NOT WORKING.'.
**07.02.1990** Service defect: 'D - AUXILLARY MACHINES - REAR TM BLOWER BELTS REPLACED.'.
**07.02.1990** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L2,R3,R5 WICKS REPLACED.'.
**28.02.1990** Service defect: 'UN - 'A' BOLSTER CRACKED.'.
**02.03.1990** Service defect: 'UN - BOGIE - 'A'END BOLSTER REPLACED A/C CRACKED.'.
**09.03.1990** Service defect: 'UN - BATTERY MAINTENANCE - ALL BATTERIES CHANGED.'.
**13.03.1990** Service defect: 'TS - AUXILLARY MACHINES - EXCITER CHANGED.'.
**29.03.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO RUN DOWN CHECKED OK A/C SPARKS FROM EXHAUST.'.
**10.04.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN BRUSH HOLDER LUG REPLACED.MAIN GEN VEED OUT& RISERSBRUSHED.'.
**21.04.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 2& 3 TM'S FITTED WITH NEW BRUSHES A/C DAMAGED.'.
**05.05.1990** Service defect: 'TS - MAIN GENERATOR FLASHOVER - M/GEN INSULATORS & COMM CLEANED A/C FLASH OVER.'.
**05.05.1990** Service defect: 'TS - TRACTION MOTOR FLASHOVER - 2 BRUSHES CHANGED IN NO3 TM A/C SHATTERED BRUSHES.P-300K.'.
**05.05.1990** Service defect: 'UN - NO.3 T/M TO GRIND.'.
**26.05.1990** Service defect: 'UN - VIGILANCE - 25 & 75LB CUT OFF VALVES REPLACED.NO 19 DOUBLE CHECK VALVE SERVICED.AIR LEAKS TO TIMING RES REPAIRED.'.
**30.05.1990** Service defect: 'TS - TRACTION MOTOR - NO3 TM CHANGED A/C BAD FLATS & DIVOTS IN COMM.(IN S5 OUT S18'.
**12.06.1990** Service defect: 'UN - LOCO TO TEST RUN D/BRAKE X REPS'.

**14.06.1990** Service defect: 'C - DYNAMIC BRAKE - ALL GRIDS & BLOWER MOTOR REPLACED.2 BUS BARS REPAIRED.'.
**14.06.1990** Service defect: 'C - ELECTRICAL MISC. TRANSITION - FAULTY WIRING FROM AXLE GEN.45B 45C REPAIRED A/C NO TRANSITION.'.
**14.08.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED A/C CONDMNED WHEELS.'.
**14.08.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN LUG REPAIRED.'.
**14.08.1990** Service defect: 'UN - TRACTION MOTOR - TM'S CHANGED.(IN 91,115,169,12,147,150).'.
**16.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.'.
**27.08.1990** Service defect: 'UN - ENGINE - ENGINE OVERSPEED ADJUSTED A/C TRIPPING.'.
**26.09.1990** Service defect: 'TS - ELECTRICAL MISC. MODULES - E.C. PANEL REPLACED A/C FAULTY.'.
**12.10.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER,VOLTAGE CHECKED,880-890.'.
**12.10.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C LIGHT FLASH.'.
**12.10.1990** Service defect: 'UN - OIL IM MAIN GEN TO CLEAN.'.
**16.10.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - BKV MAGET VALVE IN NOSE REPAIRED A/C FAULTY.'.
**22.10.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - RETURNED TO M.E.D.DEPOT FOR REPAIRS. - BUSS/BAR BROKEN IN M/GENERATOR.'.
**22.10.1990** Service defect: 'TS - BROKEN BUS-BAR IN M/GENERATOR. (22/10)'.
**23.10.1990** Service defect: 'SW - MAIN GENERATOR - MAIN GEN BUS BAR REPAIRED.'.
**30.10.1990** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L2,R3 WICKS & OILS REPLACED.'.
**01.11.1990** Service defect: 'UN - VIGILANCE - TEMP REPAIRS TO DRIVERS SIDE BUTTON.'.
**02.11.1990** Service defect: 'UN - VIGILANCE - VIGILANCE BUTTON REPLACED.'.
**18.11.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY REPAIRED A/C LEAD BLOWN OFF.'.
**21.11.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN V RING,INSULATORS & COMM CLEANED.A/C FLASHOVER.'.
**21.11.1990** Service defect: 'UN - NO5 TM TO WASH A/C OIL.21/11*'.
**28.11.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BOOKED FOR GROUND RELAY,NO5 TM FULL OF OIL,TO BE WASHED.'.
**04.12.1990** Service defect: 'TS - ENGINE WATER LEAK - TURBO CHARGER WATER PIPE REPLACED A/C SPLIT. KNOCKING NOISE IN MOTOR CHECKED,OK.'.
**14.12.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN WASH COMPLETED.'.
**14.12.1990** Service defect: 'UN - TRACTION MOTOR - T/M WASH COMPLETED.'.
**20.12.1990** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMP CHANGED.'.
**06.02.1991** Service defect: 'A - LUBRICATING SYSTEM OIL COOLER - OIL INTERCOOLER BOLTS TIGHTENED'.
**06.02.1991** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BRAKE BUSBAR RE-INSULATED A/C GROUND RELAYS.'.
**06.02.1991** Service defect: 'A - DYNAMIC BRAKE GRID TO REPLACE,ROOF TO CLEAN AROUND'.
**06.02.1991** Service defect: 'A - STACK A/C OILY.'.
**15.02.1991** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYN/BRAKE GRIDS REPLACED & MEGGERED OK. 2MEGS.'.
**17.04.1991** Service defect: 'TS - ENGINE CYLINDER HEADS - EXHAUST VALVE BLOW,LOCO COMPRESSION TESTED OK.'.
**17.04.1991** Service defect: 'TS - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED,A/C LEAKING.'.
**17.04.1991** Service defect: 'TS - MAIN GENERATOR - MAIN GEN CHANGED OUT,A/C GR'S.'.
**07.05.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - HOT ENGINE GLOBE 'B' END DOWN TO EARTH,REPLACED OK.C=100K P=200K,A/C E ON C.'.
**07.05.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - R5 CYL/HEAD REPLACED,A/C VALVE BREAKING UP.L5 CYL/HEAD REPLACED,A/C LOW COMPRESSION.'.
**28.05.1991** Service defect: 'TW - ELECTRICAL MISC. GROUND RELAY - LOW TENSION MEG READING 263K,LOCO STARTED OK IN DEPOT,A/C GR.'.
**28.05.1991** Service defect: 'TW - GENERAL - DRIVERS WINDSCREEN WIPER REPLACED.'.
**07.06.1991** Service defect: 'C - CONTACTOR MISCELLANEOUS - RADIATOR FAN CONTACTOR REPLACED.'.
**07.06.1991** Service defect: 'C - ENGINE - C/CASE EXHAUST MOTOR REPLACED.'.
**07.06.1991** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO STACK GASKET REPLACED.'.
**07.06.1991** Service defect: 'C - GENERAL - SERVICE WATER TANK REPAIRED.'.
**07.06.1991** Service defect: 'C - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE REPLACED.'.
**12.06.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - ALL T/M'S CHECKED OK,MAIN GEN BRUSHED TO REMOVE COPPER DRAGLOCL MEGGERED AT 80K.'.
**17.06.1991** Service defect: 'TS - TRACTION MOTOR - NO 4 T/MOTOR REPLACED,A/C GR'S.IN-153.OUT-12.'.
**22.07.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - STARTED 3 TIMES WITH NO GROUNDS.'.
**22.07.1991** Service defect: 'TS - LUBRICATING SYSTEM LOW OIL PRESSURE - CHECKED OIL PRESSURE 60 PSI IN IDLE,70 PSI IN NOTCH 8. REMOVED OIL STRAINER & CLEANED - OIL PRESSURE STILL 60 IN'.
**05.08.1991** Service defect: 'SW - MAIN GENERATOR - MAIN GENERATOR VEED OUT, A/C GR'S (COPPER DRAG.).'.
**09.09.1991** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - PCS FAULT REPAIRED,13 WIRE SHORTED TO 30F WIRE.'.
**09.09.1991** Service defect: 'A - FUEL SYSTEM - R6 FUEL BUS RAIL REPAIRED, A/C LEAKING.'.
**05.11.1991** Service defect: 'UN - AUXILLARY MACHINES - EXCITER CHANGED,A/C TO MUCH FWD PLAY.EXCITER NO 8289619.'.
**21.11.1991** Service defect: 'TS - BATTERY MAINTENANCE - BATTERY TERMINALS REPAIRED,A/C 2 BLOWN.'.
**21.11.1991** Service defect: 'TS - GENERAL - TEA POT OUTLET REPAIRED.'.

**11.12.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY REPLACED,A/C TERMINAL BLOWN.'.
**03.01.1992** Service defect: 'TS - DYNAMIC BRAKE SETTING - DYNAMIC BRAKE CHECKED OK.'.
**03.01.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY CHECKED OK.'.
**03.01.1992** Service defect: 'TS - MECHANICAL EQUIPMENT - T/M HOUSING REPAIRED & REPLACED.'.
**03.01.1992** Service defect: 'TS - OTHER BODY REPAIRS - BATTERY COVERS REPLACED.'.
**31.01.1992** Service defect: 'UN - BATTERY MAINTENANCE - ALL BATTERIES CHANGED.'.

**937**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**938**

Details: locomotive '938 V' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $241920
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 10.10.1957
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 29.08.92;SCRAPPED 28.07.94
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 26.08.1982 | | |
| SW Service Mileage: | 874402 KM | SW Service Date: | 01.05.1990 |
| A Service Mileage: | 862485 KM | A Service Date: | 21.06.1991 |
| B Service Mileage: | 794203 KM | B Service Date: | 06.08.1990 |
| C Service Mileage: | 747609 KM | C Service Date: | 29.03.1990 |
| D Service Mileage: | 602088 KM | D Service Date: | 30.09.1988 |
| E Service Mileage: | 831763 KM | A Service Date: | 12.02.1991 |
| WT Service Mileage: | 810406 KM | WT Service Date: | 17.09.1990 |
| US Service Mileage: | 852430 KM | A Service Date: | 24.05.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**05.07.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - BOOKED FOR AIR BLOW IN CUBICLE IN D/BRAKE & POWER.ALL CONT- ACTORS & REVERSERS CHECKED,NO AIR LEAK FOUND.'.
**05.07.1989** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - 'A'END LOAD METER CHANGED A/C FAULTY.'.
**08.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R5 WICK REPLACED.'.
**08.07.1989** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'END AUTO COUPLER CHANGED A/C CRACKED.'.
**11.08.1989** Service defect: 'TS - MAIN GENERATOR FLASHOVER - INSULATORS CLEANED.V RING PAINTED A/C SLIGHT FLASH ON M/GEN.P-60K.'.
**11.08.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO6 TM GROUND, VEED OUT.NEW BRUSHES FITTED.'.
**20.09.1989** Service defect: 'B - FUEL SYSTEM PUMP - FUEL PUMP MOTOR CHANGED.'.
**20.09.1989** Service defect: 'B - MAIN GENERATOR - BROKEN BRUSH RING ON MAIN GEN REPAIRED.'.
**12.10.1989** Service defect: 'UN - TRACTION MOTOR - NO5 & 6 TM'S GROUND,VEED OUT & NEW BRUSHES FITTED.'.
**18.10.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR 3 G/RELAYS.M/GEN,TM'S,BRAKE TANK CHECKED,NO FAULTFOUND.P-50K.'.
**23.10.1989** Service defect: 'UN - TRACTION MOTOR - NO 5 TM CHANGED A/C EARTH ON ARMATURE.(IN C29 OUT C104).'.
**20.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICKS CHECKED OK.'.
**20.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICKS CHECKED OK.'.
**03.01.1990** Service defect: 'UN - TRACTION MOTOR BURNTOUT - NO 6 T.M. CHANGED A/C BLOWN COMMUTATOR SEGMENTS.(IN 109 OUT 27).'.
**03.01.1990** Service defect: 'TS - NO 6 TRACTION MOTOR CHANGE.'.
**09.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,R1,L2,R3,L3 WICKS REPLACED A/C DIRTY.'.
**09.01.1990** Service defect: 'TS - MAIN GENERATOR FLASHOVER - FLASH ON MG CLEANED COM,V RING & INSULATORS.'.
**17.01.1990** Service defect: 'TS - TRACTION MOTOR - NO 2 TM CHANGED A/C PINION END BEARING.(IN 84 OUT 156).'.
**02.03.1990** Service defect: 'UN - TRACTION MOTOR - NO 5 TM CLEANED UP.'.
**30.03.1990** Service defect: 'UN - CUBICLE DOOR SEALS.'.
**23.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK IN FILTER HEAD REPAIRED.'.
**27.04.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED AS NOT PICKING UP.JUMPER REPLACED.'.
**27.04.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION CANS REPLACED A/C PROBLEMS BETWEEN 1ST & 2ND CHANGE.'.
**01.05.1990** Service defect: 'SW - SHORT EXHAUST CONNECTOR RHS HAS SMALL SPLIT.1/5*'.
**03.05.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - 'A'END LOAD METER REPLACED A/C FAULTY.'.
**03.05.1990** Service defect: 'UN - 'A'END F/MANS SLIDING WINDOW SEALS TO REPAIR.3/5*'.
**05.05.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - M/GEN CLEANED A/C FLASH OVER.P-100K.'.
**05.05.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO5 TM CLEANED A/C OIL.'.
**11.05.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO AIR

INLET FELT REPLACED.'.

**11.05.1990** Service defect: 'UN - GENERAL - CARRIAGE MAKER REPAIRS COMPLETED.CAR BODY FILTERS REPLACED.'.

**05.06.1990** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - LOCO BOOKED FOR SHUTTING DOWN.JUMPER CABLE REPLACED.'.

**05.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV MAGNET VALVE REPLACED.'.

**09.06.1990** Service defect: 'A - NO1.OIL FILTER HEAD GASKET TO MONITOR A/C SLIGHT'.

**09.06.1990** Service defect: 'A - WEEP.'.

**24.07.1990** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR REPAIRED.'.

**24.07.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL FILTER BOWL REPAIRED.'.

**08.08.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED NOT WORKING.CHECKED & TESTED IN DEPOT,NO FAULT FOUND,VOLTAGE 2-33V.'.

**31.08.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - EP VALVE ON REVERSER REPLACED.'.

**16.09.1990** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO4 WHEELSET REPLACED.'.

**16.09.1990** Service defect: 'TS - TRACTION MOTOR - NO4 TM CHANGED A/C WHEELS.(IN C89 OUT 96).'.

**16.09.1990** Service defect: 'TS - WHEELSLIP FAULT TO LOCATE ON RETURN FROM WTM'.

**17.09.1990** Service defect: 'WT - BRAKES TO ADJUST'.

**19.09.1990** Service defect: 'UN - NO 1 W/SET SPACER TO MONITOR'.

**27.09.1990** Service defect: 'UN - TRACTION MOTOR - NO5 TM WASHED OUT, BLOWN OUT, REBRUSHED. CHECKED OK.'.

**20.10.1990** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN GEARBOX REPLACED.'.

**24.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CLOCK REPAIRED A/C NOT WORKING.'.

**06.11.1990** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR SURGING,OVERSPEED CHECKED OK.'.

**18.12.1990** Service defect: 'UN - TRACTION MOTOR - NO. 6 TRACTION MOTOR CHANGED.'.

**05.03.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - WATER HOSE (BIG) TO TURBO REPLACED.'.

**28.03.1991** Service defect: 'UN - MAIN GENERATOR - REPLACED 2 ERT PANELS,A/C MAIN GEN EXCITATION EXCESSIVE IN NOTCH 1.'.

**26.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - 'B' END FLOOR REPLACED.'.

**13.05.1991** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO PANEL FILTERS REPLACED.'.

**13.05.1991** Service defect: 'TS - FUEL SYSTEM INJECTORS - ALL INJECTORS RENEWED.'.

**13.05.1991** Service defect: 'TS - FUEL SYSTEM PUMP - PUMP TIMING BOLTS REPLACED ON LHS OF MOTOR,A/C OIL LOSS.OIL TOPPED UP.'.

**17.05.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - FUEL MOTOR REPLACED,A/C FAULTY.CIRCUIT BREAKER REPLACED,A/C WIRING FAULT.'.

**24.05.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - G/R,NOTCH 8,65KM/H,M/G SLIGHT FLASHOVER A/C EXCESIVE OIL& DIRT ON BRUSH GEAR.'.

**24.05.1991** Service defect: 'UN - TRACTION MOTOR - NO.5 TM OIL ON TOP BRUSH GEAR'.

**24.05.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.1&2 TM/S SLIGHT FLASHOVER P=500K'.

**24.05.1991** Service defect: 'UN - TM/S TO BE WASHED, M/G TO BE WASHED A/C SLIGHT'.

**24.05.1991** Service defect: 'UN - FLASH OVER. BOGIES REQUIRE WASHING,ENGINE ROOM'.

**24.05.1991** Service defect: 'UN - FLOOR REQUIRES WASHING,ENGINE BODY REQUIRES'.

**24.05.1991** Service defect: 'UN - WASHING.'.

**21.06.1991** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END AUTO COUPLER REPLACED.'.

**08.08.1991** Service defect: 'TS - STORED.'.

### 939

Details: locomotive '939 H' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $241920
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 30.01.1958
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 29.08.92;SCRAPPED 28.07.94
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 07.11.1991 | | |
| Last Lift: | 24.04.1986 | | |
| SW Service Mileage: | 359258 KM | SW Service Date: | 10.08.1989 |
| A Service Mileage: | 542248 KM | A Service Date: | 17.04.1991 |
| B Service Mileage: | 508787 KM | B Service Date: | 22.11.1990 |
| C Service Mileage: | 337174 KM | C Service Date: | 04.05.1989 |
| D Service Mileage: | 195349 KM | D Service Date: | 03.03.1988 |
| E Service Mileage: | 442184 KM | A Service Date: | 13.04.1990 |
| WT Service Mileage: | 503426 KM | WT Service Date: | 08.11.1990 |
| US Service Mileage: | 887667 KM | A Service Date: | 07.11.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**28.07.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BRUSHES REPLAED IN NO 4-5 TM'S.'.

**08.08.1989** Service defect: 'SW - NO 1 T/M GRIND.'.

**09.08.1989** Service defect: 'A - NO.1.T/M UNDER CUT.'.

**10.08.1989** Service defect: 'SW - TRACTION MOTOR - NO1 TM UNDERCUT,VEED OUT & NEW BRUSHES FITTED,V RING PAINTED'.

**29.08.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN V RING,INSULATORS CLEANED.'.
**29.08.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO6 TM V RING,INSULATORS CLEANED.P-600K.'.
**16.11.1989** Service defect: 'UN - GENERAL - F/MANS SIDE SLIDING WINDOW REPLACED.'.
**15.01.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN V RING,INSULATORS,COMM CLEANED A/C FLASH OVER.'.
**15.01.1990** Service defect: 'UN - TRACTION MOTOR - NO 5 TM CHANGED A/C BLOWN COMMUTATOR SEGMENTS.(IN 50 OUT 244'.
**26.01.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L2,L3,L4,L6,R1,R4,R5 WICKS REPLACED.'.
**27.02.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT CIRCUIT BREAKER REPLACED A/C FAULTY.'.
**27.02.1990** Service defect: 'UN - FUEL SYSTEM LINES - R6 HP FUEL LINE REPLACED.'.
**27.02.1990** Service defect: 'UN - TRACTION MOTOR - NO5 TM WEAR PLATES RENEWED.'.
**07.03.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - SANDS BOOKED NOT WORKING.64 WIRE NOT CONNECTED FROM TOP RECEPTACLE TO TERMINAL BLOCK('B'END).RECONNECTED.'.
**07.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MAGNET VALVE REPLACED.'.
**23.03.1990** Service defect: 'UN - DYNAMIC BRAKE - LOCO TRIAL RUN A/C FAULTY D/BRAKE,TESTED OK.'.
**23.03.1990** Service defect: 'UN - TRACTION MOTOR - NO1 TM CHANGED A/C HIGH MICA.(IN 262 OUT 99).'.
**28.03.1990** Service defect: 'TS - DYNAMIC BRAKE - G/RELAYS IN D/BRAKE.FLASH IN NO5 TM CLEANED.BLOWER & GRIDS CHECKED OK.BUSBAR IN BRAKE TANK REPAIRED.'.
**06.04.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BROKEN LUG ON NO 4 WIRE IN 'B'END PEDESTAL REPAIRED.'.
**05.05.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - LOWER 'B'END JUMPER RECEPTACLE REPAIRED.'.
**01.06.1990** Service defect: 'TS - TRACTION MOTOR - NO4 TM CHANGED A/C PINION LOOSE.(IN C29 OUT 3).'.
**24.06.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - SLIGHT FLASH ON NO5 TM,ADJUSTED BOTTOM BRUSH HOLDERS A/C LOOSE.P-200K.'.
**02.07.1990** Service defect: 'TS - ENGINE - LOCO SHUTTING DOWN.IDLE & NOTCH 8 SPEEDS ADJUSTED LOWER A/C TO HIGH.OVERSPEED 2700 CHECKED OKAY.'.
**13.07.1990** Service defect: 'UN - FUEL SYSTEM PUMP - R3 FUEL PUMP CHANGED.'.
**20.08.1990** Service defect: 'WT - BRAKE ADJUST'.
**20.08.1990** Service defect: 'WT - MILE END'.
**13.09.1990** Service defect: 'UN - GENERAL ACCIDENT - DERAILMENT REPAIRS COMPLETED.'.
**13.09.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN VEED OUT & CURED.'.
**13.09.1990** Service defect: 'UN - TRACTION MOTOR - NO1 TM CHANGED.(IN 127).'.
**18.09.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN CHANGED.'.
**12.10.1990** Service defect: 'TS - TRACTION MOTOR - NO3 TM CHANGED.'.
**28.10.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR G/RELAY,TM'S & MAIN GEN CHECKED,NO SIGN OF FLASH-OVERS.TRANSITION CANS CHANGED.P-1MEG.'.
**07.11.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - 'A'END LHS HEADLIGHT REPLACED.'.
**07.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE REPLACED.'.
**13.11.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO5 WHEEL SET CHANGED.'.
**29.11.1990** Service defect: 'UN - LUBRICATING SYSTEM - 2 BANK OF 5 OIL GASKETS REPLACED A/C LEAKING.'.
**15.01.1991** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED'.
**15.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.4 WHEELSET CHANGED'.
**15.01.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - COMP. GOVERNOR CHANGED A/C FAULTY'.
**15.01.1991** Service defect: 'UN - OTHER BODY REPAIRS - STEPS OBSERVER SIDE REPLACED'.
**18.01.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO. 3 TRACTION MOTOR CHANGED A/C GROUND RELAY'.
**27.01.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE - REVERSER - HOT LUG ON MOTORING/BRAKING SWITCH.'.
**27.01.1991** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MIAN GENERATOR SLIGHT FLASH P=500K'.
**27.01.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO3 TM SLIGHT FLASH,NO5 TM OILY'.
**27.01.1991** Service defect: 'TS - LEAKING VICTAULIC RHS NEAR TURBO'.
**25.03.1991** Service defect: 'UN - GENERAL - 'B'END CAB FLOOR REPLACED.'.
**28.04.1991** Service defect: 'UN - DYNAMIC BRAKE - REPLACED DYN/BRAKE POT 'A'END.'.
**08.05.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL - 30A & 13A WIRES EARTHED,REPAIRED USING 51E & 13E WIRES C=100K.'.
**13.05.1991** Service defect: 'TS - ENGINE GOVERNOR - GOVENOR CHANGED.'.
**13.05.1991** Service defect: 'TS - MAIN GENERATOR - ALL MAIN GEN BRUSHES CHANGED,A/C GR'S COMM CLEANED,GEN WASHED.'.
**17.05.1991** Service defect: 'TS - TRACTION MOTOR - NO 1 T/MOTOR CHANGED.'.
**07.06.1991** Service defect: 'UN - TRACTION MOTOR - NO 3 T/MOTOR REPLACED,A/C BROKEN WHEEL.IN-C-97,OUT-S-12.'.
**14.06.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - BRAKE STRAP ON L/S NO1 WHEEL ADJUSTED TO MOVE IT AWAY FROM WHEEL.'.
**14.06.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - LIFTED TOP BRUSH HOLDER NO5 T/M TO CLEAR COMM,A/C TOO CLOSE.CLEANED BOTTOM OF NO6 T/M,A/C OILY.LOCO MEGGERS P = 500K.'.

**14.06.1991** Service defect: 'TS - GENERAL - ALL WIPER BLADES REPLACED.'.
**14.06.1991** Service defect: 'TS - MAIN GENERATOR - CLEANED BOTTOM OF MAIN GEN,A/C OILY.'.
**14.06.1991** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - L6 SAND PIPE REPLACED.'.
**14.06.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL AIR FEED VALVE REPLACED.'.
**14.06.1991** Service defect: 'TS - VIGILANCE - VIG RESEALED & CHECKED OK.'.
**28.06.1991** Service defect: 'TS - OVERHEATING - HIGH LEVEL OF RADIATOR THERMOSTAT ADJUSTED,A/C HOT ENGINE BOOKING.'.
**28.06.1991** Service defect: 'TS - TRACTION MOTOR - NO 1 T/MOTOR REPLACED,A/C GR'S.IN-132.OUT-262.NO 4 T/MOTOR REPLACED,A/C INTERPOLES DOWN.'.
**28.06.1991** Service defect: 'TS - A & B AUTO COUPLERS CRACKED.28/6.'.
**17.09.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 3 WHEELSET CHANGED.'.
**17.09.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - V/REGULATOR REPLACED,A/C NIL CHARGE.'.
**17.09.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - EXCITER REPLACED,A/C NOISY BEARING.EXCITER SLIPRRING REPAIRED.'.
**17.09.1991** Service defect: 'TS - FUEL SYSTEM INJECTORS - INJECTORS REPLACED.'.
**17.09.1991** Service defect: 'TS - GENERAL - LIST OF LOG BOOK REPAIRS COMPLETED.'.
**17.09.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED.'.
**17.09.1991** Service defect: 'TS - TRACTION MOTOR - NO T/MOTOR CHANGED,A/C ARMATURE TO EARTH.'.
**17.09.1991** Service defect: 'TS - TRACTION MOTOR EARTH - NO 5 T/MOTOR CHANGED EX 938,A/C EARTH.'.

**940**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**941**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**942**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**13.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO WIRING LOOM REPLACED A/C EARTH ON PHASE WIRE IN SPEEDO HEAD.'.
**21.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING REPAIRED ON HLR.'.
**21.07.1989** Service defect: 'UN - MAIN GENERATOR - MAIN GEN BRUSH RING RETAPED & RELUGGED.'.
**21.07.1989** Service defect: 'UN - TRACTION MOTOR - NO4 TM CHANGED A/C EARTH ON ARMATURE.(13 IN 246 OUT).'.
**29.07.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C SLIGHT FLASH.P-200K.'.
**29.07.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO5 TM FLASHED A/C FLATS.REPLACED 2 BRUSHES A/C FRAYED & BURNT PIGTAILS.'.
**07.08.1989** Service defect: 'UN - COOLING SYSTEM - TOP WATER RAIL GASKETS CHANGED BOTH SIDES.'.
**04.09.1989** Service defect: 'UN - TRACTION MOTOR - NO 1 TM CHANGED A/C BURNT OUT EQUALIZER.(IN C101 OUT 70).'.
**04.09.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - N5 TM GROUND & REBRUSHED.'.
**09.09.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO1 TM CHANGED A/C EARTH ON ARMATURE.(IN C106 OUT C101).'.
**11.10.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN COMM,ISULATORS CLEANED,V RING PAINTED.BOTTOM BRUSHES REMOVED & CLEANED A/C STUCK.P-500K.'.
**11.10.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - ALL BRUSHES CHANGED IN NO1 TM A/C BROKEN BRAIDS.& CRACKED. 6 BRUSHES CHANGED IN NO 3 TM A/C SHORT.'.
**23.10.1989** Service defect: 'UN - TRACTION MOTOR - NO3 TM CHANGED.(IN 61 OUT C44).'.
**02.11.1989** Service defect: 'UN - WHEELSLIP - APPARENT W/SLIP - NO INDICATION , ALL EQUIP CHECKED WSR1,2,3 ALL SHOWING LIGHT AND BUZZER INDICATION.'.
**09.11.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN V RING INSULATORS,COMM CLEANED A/C G/RELAY.'.
**09.11.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 2 BRUSHES CHANGED IN NO1 TM A/C PIGTAILS OFF.P-600K.'.
**15.11.1989** Service defect: 'UN - MAIN GENERATOR - MAIN GEN WASHED OUT.'.
**23.11.1989** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.(IN 96018V1YB).'.
**30.11.1989** Service defect: 'UN - COOLING SYSTEM OVERHEATING - BOOKED FOR HOT ENGINE.RADIATOR FAN THERMOSTATS & FAN CONTAC-TORS CHECKED OK.'.
**16.12.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN SLIGHT FLASH,CLEANED.P-200K.'.
**16.12.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO1 TM PIGTAILS AT TOP CRACKED BRUSHES-FLATS.NO4 TM SLIGHT FLASH.'.
**12.01.1990** Service defect: 'TS - AUXILLARY MACHINES - REPLACED FUEL PUMP BRUSHES.'.
**13.02.1990** Service defect: 'TS - GENERAL SHUTDOWN - BOOKED FOR SHUTTING DOWN.OP 58-68.FUEL PRESSURE 24LB.NOTCH 82400.O/SPEED 2690.'.

**07.03.1990** Service defect: 'UN - BOGIE - BOTH BOGIES CHANGED.(IN 37 & 60 OUT 73 & 30).'.
**07.03.1990** Service defect: 'UN - TRACTION MOTOR - ALL TM'S CHANGED (IN 63,510,164,174,28,171.OUT117,C19,66,13,C106,61).'.
**28.04.1990** Service defect: 'UN - GENERAL - 'A'END CAB DOOR,WINDOW REPAIRED.F/MANS SIDE WINDOW REPAIRED.'.
**04.05.1990** Service defect: 'UN - COOLING SYSTEM OVERHEATING - BOOKED FOR HOT ENGINE.FAN OPERATION CHECKED OK.'.
**05.05.1990** Service defect: 'UN - COOLING SYSTEM OVERHEATING - BOOKED FOR HOT ENGINE.ELECTRICALLY CHECKED OK.'.
**24.05.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN V RING & INSULATORS CLEANED & DRESSED A/C FLASHOVERP-200K.'.
**29.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER BOOKED FAULTY,CHECKED OK IN DEPOT.'.
**20.06.1990** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1,L4 WICKS CHANGED.'.
**10.07.1990** Service defect: 'UN - DYNAMIC BRAKE - BLOWER MOTOR LEADS REPAIRED.BUS BAR IN TANK REINSULATED.'.
**10.07.1990** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 6 GRIDS REPLACED.'.
**01.08.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN VEED OUT,CLEANED,BLOWN OUT,NEW BRUSHES INSTALLED, CURED.'.
**03.09.1990** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED A/C NOT WORKING.'.
**08.09.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R1,R6,L2,L4 WICKS REPLACED.'.
**04.11.1990** Service defect: 'TS - TRACTION MOTOR - NO6 TM CHANGED A/C ARMATURE FAILED.NO74 IN OUT 171.'.
**01.12.1990** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - CONTROL CIRCUIT BREAKER BOOKED FOR TRIPPING,UNABLE TO FAULT IN DEPOT.'.
**06.12.1990** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - MAIN CONTROL CIRCUIT BREAKER REPLACED.A/C TRIPPING.'.
**11.12.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CONTROL CIRCUIT BREAKER REPLACED A/C TRIPPING.'.
**08.01.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FRONT TRACTION MOTOR BLOWER REPLACED A/C BEARING.'.
**17.01.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - HUNTING- ECP ,RP AND RHEOSTAT IN GOVERNOR REPLACED.'.
**17.01.1991** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - REPOSITIONED COG IN GOVERNOR'.
**21.01.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL LEAK- DIAPHRAGM IN CRANKCASE VALVE REPLACED A/C HOLED.'.
**01.02.1991** Service defect: 'C - VIGILANCE - VIG REPAIRED AT SERVICE.'.
**09.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L5 WICK PLUG FOUND MISSING-REPLACED'.
**09.02.1991** Service defect: 'UN - LUBRICATING SYSTEM - NEW GASKET FITTED TO OIL STRAINER'.
**09.02.1991** Service defect: 'UN - OVERSPEED TRIPPING TO MONITOR *'.

**943**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**944**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**03.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - HP FLEX HOSE ON COMPRESSOR REPLACED A/C LEAKING.'.
**03.07.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - GROUND RELAYS CAUSED BY COOLANT WATER LEAKING INTO NO4&5 TM'S.LEAKS REPAIRED.P-50K.'.
**03.07.1989** Service defect: 'UN - PIPE FLANGE TO RADIATOR TO REPAIR.3/7.'.
**20.08.1989** Service defect: 'UN - VIGILANCE - VIGILANCE BOOKED FAULTY.CHECKED SEVERAL TIMES IN DEPOT, UNABLE TO FAULT.'.
**26.09.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED HEATER SWITCH & BURNT LUG,LHS A END.26/9.'.
**31.01.1990** Service defect: 'UN - VIGILANCE - DC VALVE GASKETS REPLACED.'.
**13.02.1990** Service defect: 'UN - AUXILLARY MACHINES - EXCITER CHANGED A/C COLLAPSED BEARING.'.
**13.02.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN VEED OUT & CURED.'.
**20.02.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN COMM,VEE RING,INSULATORS CLEANED,SLIGHT COPPER DRAGP-100K.'.
**01.03.1990** Service defect: 'UN - GENERAL - SENT TO IW FOR STORAGE.'.
**01.03.1990** Service defect: 'UN - LOCO TO BE STORED'.
**04.08.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - R1,R2 CYLINDER HEADS CHANGED.'.
**04.08.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.
**28.08.1990** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY TO CHANGE.'.
**14.10.1990** Service defect: 'UN - DYNAMIC BRAKE - BOOKED FOR GROUND RELAY IN D/BRAKE.TM'S,BLOWER MOTOR CONTACTORS CHECKED OK.LOCO MEGGERED OK.'.
**24.10.1990** Service defect: 'UN - TRACTION MOTOR - NO 6 TM CHANGED A/C EARTH ON ARMATURE.(IN C99 OUT C73).'.
**01.11.1990** Service defect: 'UN - OBS HEATER C/B REQD NIL IN STOCK'.
**30.11.1990** Service defect: 'UN - DYNAMIC BRAKE - 'B'END POTENTIOMETER FITTED TO 'A'END A/C FAULTY.'.
**14.12.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO2 T/M FLASH,CLEANED.'.
**20.12.1990** Service defect: 'TS - LUBRICATING SYSTEM - OIL LEAK - BANK OF FIVE GASKET REPLACED.'.

**03.02.1991** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - IDLE ADJ. 1000greater than970 RPM,N.8 ADJ. 2500greater than2400 RPM,O/S ADJ. 2650greater than2700 RPM.'.
**22.03.1991** Service defect: 'UN - TRACTION MOTOR - ALL REAR T/M BLOWER V BELTS REPLACED,A/C BROKEN.'.
**04.04.1991** Service defect: 'UN - GENERAL - T/MOTOR BLOWER BELTS REPLACED.'.

**946**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**947**

**12.07.1989** Service defect: 'SW - BOGIE - BOGIES CHANGED EX957 FITTED'.
**12.07.1989** Service defect: 'SW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR AND CURRENT LIMIT CHANGED A/C NOT CHARGING'.
**28.07.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CURRENT SET UP.'.
**28.07.1989** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL TRANSFER PUMP CHANGED.'.
**09.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END FEED VALVE CHANGED.'A'END ISOLATING COCK CHANGED.'.
**15.08.1989** Service defect: 'UN - NO4 GEARCASE CRACKED.11/8.'.

**948**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**20.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BOOKED FOR BRAKES NOT APPLYING IN AUTO.BRAKES CHECKED OK,AIRGAUGE CHANGED A/C STICKY.'.
**25.07.1989** Service defect: 'UN - TRACTION MOTOR - NO 3 TM COMM GRIND DONE.'.
**28.07.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR GROUND RELAY ON START,LOCO CHECKED OK IN DEPOT.'.
**31.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END AUTO BRAKE VALVE CHANGED A/C BRAKES NOT APPLYING.'.
**06.08.1989** Service defect: 'UN - DYNAMIC BRAKE - SLIGHT FLASH ON REVERSER.'.
**14.08.1989** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R5,L5,R6,L6,L2 WICKS & OIL REPLACED.'.
**14.08.1989** Service defect: 'C - DYNAMIC BRAKE - GROUND RELAY IN D/BRAKE.NO4 TM DOWN TO 10K,LOCO TO BE TEST RUN.'.
**23.08.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BLOWER MOTOR REPLACED A/C THROWING SOLDER.'.
**13.09.1989** Service defect: 'UN - GENERAL - CAB & E/ROOM DOOR SEALS REPLACED.'.
**14.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED A/C BENT.'.
**08.11.1989** Service defect: 'UN - DYNAMIC BRAKE - ALL GRIDS CHANGED.SET UP & TEST RUN,CHECKED OK.'.
**26.11.1989** Service defect: 'TS - CONTACTOR EP VALVES - P 21 EP REPLACED,A/C STICKING IN'.
**26.11.1989** Service defect: 'TS - DYNAMIC BRAKE - BRAKE POT REPLACED'.
**26.11.1989** Service defect: 'TS - MAIN GENERATOR FLASHOVER - FLASH ON MAIN GEN CLEANED.P-400K.'.
**26.11.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - FLASH ON NO3 & 6 TM'S CLEANED.'.
**21.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE CHANGED.'.
**16.02.1990** Service defect: 'UN - ENGINE - TO IWS FOR CAM SHAFT BEARING REPLACMENT.'.
**25.05.1990** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC BRAKE TANK COVERS RE-INSULATED.DYNAMIC BRAKE AIR OUTLET MODIFIED.(W.I.192A.D.) D.B.F. CONTACTOR PREVIOUSLY'.
**25.05.1990** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - ELECTRICAL VIGILANCE FITTED.(W.I.132A.D.)DAY/NIGHT VIGILANCELIGHTS FITTED (W.I.113A.D.)'.
**25.05.1990** Service defect: 'SW - ENGINE - ENGINE CHANGED WITH ENGINE EX 967 (2ND. HAND ENGINE.) ENGINELOAD TESTED.'.
**25.05.1990** Service defect: 'SW - GENERAL - SERVICE WATER TANK & HAND BASIN REPAIRED.'.
**25.05.1990** Service defect: 'SW - OTHER BODY REPAIRS - CAB UPGRADE.(DOOR SEALS REPLACED & NEW ARMRESTS FITTED 'A' END. DRIVER'S SIDE CAB DOOR 'A' END REPAIRED.'.
**29.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED.'.
**31.05.1990** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - STABILZING RHEOSTAT REPLACED.'.
**31.05.1990** Service defect: 'UN - GENERAL - INSULATION DUST CLEANED FROM 'A'END PEDESTAL.'.
**15.06.1990** Service defect: 'UN - AUXILLARY MACHINES - D/BRAKE BLOWER CHANGED.'.
**26.06.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - OIL PRESSURE SWITCH REPAIRED.'.
**28.06.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - F/MANS SIDE HEATER SWITCH REPLACED.'.
**02.07.1990** Service defect: 'SW - FUEL SYSTEM - FUEL TAG MODS.'.
**26.07.1990** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R1,R3,L2 WICKS & OILS REPLACED A/C DIRTY.'.
**11.09.1990** Service defect: 'UN - VIGILANCE - VIGILANCE BOOKED FAULTY,CHECKED OK.'.
**02.11.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - R6 HEAD & PISTON REPLACED A/C DROPPED VALVE.'.
**13.11.1990** Service defect: 'TS - ENGINE CYLINDER HEADS - NO 4 CYLINDER HEAD CHANGED.'.
**13.11.1990** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.
**10.12.1990** Service defect: 'UN - OTHER BODY REPAIRS -

SLIDING WINDOW D/S 'B'END REPLACED.'.
**07.01.1991** Service defect: 'UN - FUEL SYSTEM -

**949**

Details: locomotive '949 P' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $241920
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 10.07.1959
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 29.08.92
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 08.01.1992 | | |
| Last Lift: | 23.09.1982 | | |
| SW Service Mileage: | 464390 KM | SW Service Date: | 08.01.1991 |
| A Service Mileage: | 425770 KM | A Service Date: | 01.02.1991 |
| B Service Mileage: | 451444 KM | B Service Date: | 28.05.1991 |
| C Service Mileage: | 330025 KM | C Service Date: | 03.06.1988 |
| D Service Mileage: | 1138658 KM | D Service Date: | 25.02.1987 |
| E Service Mileage: | 401677 KM | A Service Date: | 01.12.1989 |
| WT Service Mileage: | 454362 KM | WT Service Date: | 13.06.1991 |
| US Service Mileage: | 474149 KM | A Service Date: | 14.11.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**05.07.1989** Service defect: 'UN - GENERAL - WINDOWS DRIVERS SIDE SEALED A/C DRAUGHTY.'.
**13.07.1989** Service defect: 'UN - GENERAL - 'A'END CAB WINDOWS RESEALED.'.
**25.07.1989** Service defect: 'TS - CONTACTOR EP VALVES - EP VALVE ON S1 REPLACED.'.
**25.07.1989** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - BOOKED FOR EARTH ON CONTROL.EARTH ON LOOM IN CABINET REPAIR-ED.FUEL PUMP CHANGED A/C EARTH.'.
**25.07.1989** Service defect: 'TS - GENERAL - 'A'CAB DOOR & WINDOW SEALS REPAIRED.'.
**26.07.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTS P22 S1 BOOKED FOR CHATTERING.CONTACTS CHECKED OK, CONTROL AIR PRESSURE CHECKED OK.'.
**26.07.1989** Service defect: 'UN - VIGILANCE - VIGILANCE BOOKED FAULTY,CHECKED OK IN DEPOT.'.
**07.08.1989** Service defect: 'SW - BOGIE - NO 4 AXLE SUSPENSION BEARINGS CHANGED AND NEW WICKS FITTED STANDARD SUSPENSION BEARINGS FITTED'.
**07.08.1989** Service defect: 'SW - COOLING SYSTEM RADIATOR - BOTH RADIATORS CHANGED A/C LEAKING RADIATOR FLANGES REMOVED & REPLACED FROM RADIATORS'.
**07.08.1989** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC BRAKE SUPPORT REPAIRED'.
**07.08.1989** Service defect: 'SW - GENERAL - FIREMAN'S SEAT CHANGED A/C BASE PLATE BROKEN'.
**08.08.1989** Service defect: 'SW - MAIN GENERATOR - MAIN GEN VEED OUT.'.
**15.08.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FAN CONTACTOR COIL REPLACED A/C OPEN CIRCUIT.LUG IN FAN CON-TACTOR BOX REPLACED A/C BROKEN.'.
**15.08.1989** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - 'B'END LOAD METER CHANGED.'.
**21.08.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE VOLTS ADJUSTED 2-38V.'.
**21.08.1989** Service defect: 'UN - GENERAL LOSS OF POWER - OPEN CIRCUIT VOLTAGE ADJUSTED UP TO 880V.'.
**30.08.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.ENGINE REVS ADJUSTED FROM 2300 TO 2400 OVERSPEED 2700.VOLTAGE ADJUSTED.'.
**14.10.1989** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - 'A'END LOADMETER LIGHT CIRCUIT REPLACED A/C EARTH ON GLOBES.'.
**14.10.1989** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRING TO GAUGE LIGHTS REPLACED,RESISTORS REPLACED.WIRING TOFUEL PUMP REPLACED.'.
**14.10.1989** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL TRANSFER PUMP CHANGED.'.
**26.10.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - FLASH ON MAIN GEN CLEANED.'.
**26.10.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - FLASH ON NO 4 TM CLEANED.P-400K.'.
**28.10.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATED IN D/BRAKE.MAIN GEN,TM'S CHECKED OK,GRIDS &MOTOR,REVS & D/BRAKE SWITCH CHECKED OK.P-200K.'.
**31.10.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR 3 GROUND RELAYS.TM'S,M/GEN,CONTACTORS CHECKED,NO SIGN OF FLASHOVERS.'.
**31.10.1989** Service defect: 'UN - MAIN GENERATOR - SLIGHT COPPER DRAG IN M/GEN.COMM BRUSHED & CLEANED.P-400K.'.
**21.11.1989** Service defect: 'SW - DYNAMIC BRAKE - BUSBAR RE-INSULTED IN BRAKE TANK'.
**21.11.1989** Service defect: 'SW - MAIN GENERATOR - FLASH TESTED - INTERPOLE CHANGED IN MAIN GENERATOR'.
**01.12.1989** Service defect: 'E - BATTERY MAINTENANCE - NEW SET OF BATTERIES.'.
**10.01.1990** Service defect: 'UN - OVERHEATING - EXAMINED FOR HOT ENGINE,CHECKED OK IN DEPOT.'.
**24.01.1990** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP MOTOR CHANGED.'.
**26.01.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - SHUNT ON BKT REPAIRED A/C BROKEN.'.
**13.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - SHUNT ON BKT REPLACED A/C BROKEN.'.
**13.02.1990** Service defect: 'UN - SHUNTS ON BKT TO EXAMINE.'.

**23.08.1990** Service defect: 'SW - 'A'&'B'70LB FEED VALVES TO REPLACE.'B'END F/MANS'.
**23.08.1990** Service defect: 'SW - SEAT TO REPLACE.23/8*'.
**10.10.1990** Service defect: 'SW - ENGINE - LOCOMOTIVE BACK ON LOAD TANK FOR FURTHER TESTING. RESULTS SATISFACTORY WITH 32MM FUEL. OUTPUT RAISED TO 1450 H.P.'.
**10.10.1990** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REMOVED & INSPECTED - FOUND O.K. INTERCOOLER REMOVED & INSPECTED ALSO & FOUND O.K. BOTH REFITTED.'.
**10.10.1990** Service defect: 'SW - EXHAUST - ALL EXHAUST JOINTS REPLACED. ALL AIR ELBOWS RETORQUED.'.
**11.12.1990** Service defect: 'SW - BOGIE - BOGIES FITTED EX 950, NOS 930/73,930/31.'.
**17.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - DOOR LOCK - CAB DOOR LOCK FITTED A/C MISSING'.
**17.12.1990** Service defect: 'UN - FRONT WINDOW BROKEN - RELEASED AS TRAILING UNIT'.
**17.12.1990** Service defect: 'UN - A/C SHORTAGE OF POWER.'.
**08.01.1991** Service defect: 'SW - EXHAUST - EXHAUST STACK REPAIRED A/C BROKEN.'.
**08.01.1991** Service defect: 'SW - OTHER BODY REPAIRS - OBSERVERS SIDE FRONT WINDOW CHANGED A/C BROKEN.'.
**06.02.1991** Service defect: 'UN - COOLING SYSTEM OVERHEATING - HOT ENGINE ALARM OPERATED,FAN OPERATION CHECKED OKAY, RADIATORS REQUIRE CLEANING *'.
**06.02.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GENERATOR FLASHED CHECKED OKAY *'.
**06.02.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - TRACTION MOTORS CHECKED OKAY A/C GROUND RELAYS *'.
**06.02.1991** Service defect: 'UN - RADIATORS TO STEAM CLEAN URGENTLY'.
**09.02.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GENERATOR FLASHED A/C LOOSE BRUSHES IN ONE HOLDER . BRUSHES SECURED AND COMMUTATOR CLEANED *'.
**28.02.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED.A/C GR SWITCH NOT RESETTING.'.
**08.03.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY - NO4 T/MOTOR CLEANED A/C OILY.'.
**15.03.1991** Service defect: 'UN - MAIN GENERATOR - MAIN GEN BLOWN OUT-COM POLISHED-'V'RING PAINTED.'.
**18.03.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - REF PANEL CHANGED,A/C REVS WITH G F ON WERE DIFFERENT TO REVS WITHOUT G.F. ON. TESTED IN DEPOT OK.'.
**11.04.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HOT ENG TEMP SWITCH ADJUSTED,A/C TOO LOW.'.
**11.04.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - M/GEN VEED & CURED,A/C GR'S.'.
**17.04.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - PEDESTAL REWIRE COMPLETED,A/C SPARKS FROM PEDESTAL.'.
**26.04.1991** Service defect: 'UN - GENERAL - S/FIT REPLACED D/SIDE WINDOW 'B' END,A/C BROKEN.'.
**07.05.1991** Service defect: 'UN - AUXILLARY MACHINES - EXCITER ALT REPLACED,A/C BEARING COLLAPSE.SERIAL NO 8289619 OUT - IN 5358386.'.
**28.05.1991** Service defect: 'B - AUXILLARY MACHINES - AUX GENERATOR FIELD CB REPLACED,A/C FAULTY.AUX GEN VEED OUT.'.
**28.05.1991** Service defect: 'B - TRACTION MOTOR - NO5 T/MOTOR VERY OILY,LEAK FROM ENGINE ROOM INTO BLOWER DUCTING.CLEANED WITH SOLVENT & BLOWN OUT WITH AIR.'.
**28.05.1991** Service defect: 'B - INJECTORS TO BE CHANGED NEXT SERVICE.30/5.'.
**12.06.1991** Service defect: 'UN - WT'.
**01.07.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE TANK DISCONNECTED & GRIDS REMOVED,FAN OPERATION CHECKED OK. GRIDS RECONNECTED & DYN CHECKED OK.'.
**01.07.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN FLASHED,A/C COPPER DRAG.BRUSHED OUT COM.'.
**25.07.1991** Service defect: 'UN - GENERAL - WINDOW WASHERS REPAIRED 'B'END.ASHTRAYS REPAIRED 'A'END.'.
**25.07.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL DRAINED UNDER BANK OF FIVE FILTERS.'.
**25.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L4 & L5 SAND HOSES REPLACED.'.
**29.07.1991** Service defect: 'UN - NO FAULT FOUND - CHECKED FOR GR'S ON START, NONE FOUND.'.
**12.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B' END DRAUGHT YOKE REPLACED, A/C CRACKED HALF WAY THROUGH.'.
**07.11.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - T/M'S,1,2,5 & 6FLASHED,CLEANED,OK.'.
**12.11.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RADIO POWER SUPPLY COMPLETED.'.
**14.11.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - INSULATORS ,V RINGS & COMMS CLEANED,A/C FLASHOVER.'.
**14.11.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - REPLACED 3 BRUSHES ON T/MOTOR NO 5,A/C PIGTAILS.'.
**08.01.1992** Service defect: 'TS - 949 STORED AT ISLINGTON.'.

**950**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**01.07.1989** Service defect: 'UN - ENGINE - ENGINE OVERSPEED REVS ADJUSTED FROM 2590 TO 2740 A/C OVERSPEED OPERATED.'.
**03.07.1989** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC BRAKE MODIFICATIONS COMPLETED.'.
**07.07.1989** Service defect: 'UN - RADIO MODS TO COMPLETE'.
**27.07.1989** Service defect: 'SW - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C HIGH VISCOSITY.'.
**27.07.1989** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - 'A'END AUTO COUPLER CHANGED A/C CRACKED.'.
**21.08.1989** Service defect: 'SW - GENERAL - ALL CAB DOOR

& WINDOWS RESEALED.'.
**21.08.1989** Service defect: 'SW - GENERAL - F/MANS WINDOW 'A'END REPLACED A/C BROKEN.'.
**17.09.1989** Service defect: 'UN - DYNAMIC BRAKE - 'A'END D/BRAKE SELECTOR LUBRICATED.'.
**27.09.1989** Service defect: 'UN - DS WINDSCREEN WIPER MOTOR TO BE CHANGED.27/9.'.
**03.10.1989** Service defect: 'A - COOLING SYSTEM - VICTAULIC ENGINE TO RADIATOR CHANGED A/C LEAKING.'.
**08.11.1989** Service defect: 'UN - GENERAL SHUTDOWN - ENGINE SHUT DOWN.CHECKED IN DEPOT,CRANKCASE EXHAUSTER NOT RUNNING,BRUSHES NOT TOUCHING COMM,BRUSHES REPLACED.'.
**13.11.1989** Service defect: 'UN - GENERAL - WINDOW SEALS REPLACED.'.
**16.11.1989** Service defect: 'UN - VIGILANCE - CAPACITOR REPLACED A/C VIGILANCE FAULTY.'.
**21.11.1989** Service defect: 'UN - DYNAMIC BRAKE - 'B'END D/BRAKE POTENTIOMETER REPLACED.'.
**21.11.1989** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - GOVERNOR MILLI AMPS ADJUSTED TO 475-480.'.
**21.11.1989** Service defect: 'UN - CHECK X PORT STANVAC'.
**01.12.1989** Service defect: 'UN - DYNAMIC BRAKE - G/RELAY IN D/BRAKE.MAIN GEN,TM'S,GRIDS CHECKED OK.P-6M.'.
**01.12.1989** Service defect: 'UN - VIGILANCE - 680W RESISTOR REPLACED A/C VIGILANCE WOULD NOT CANCEL.'.
**15.12.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FOR AS NOT WORKING,CHECKED OK.3V-38V.'.
**15.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE VALVE CHANGED.'.
**02.02.1990** Service defect: 'TS - LUBRICATING SYSTEM - STRAINER OIL VICTAULIC REPLACED A/C LEAKING.'.
**09.03.1990** Service defect: 'TS - GENERAL LOSS OF POWER - BOOKED FOR NO POWER ABOVE NOTCH 5.PROBLEM ON 966.'.
**14.03.1990** Service defect: 'UN - ENGINE GOVERNOR - ENGINE GOVERNOR CHANGED.'.
**30.03.1990** Service defect: 'UN - AUXILLARY MACHINES - CRANKCASE EXHAUSTER CHANGED.'.
**05.04.1990** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - STABILIZING RHEOSTAT IN GOVERNOR REPLACED A/C BLOWN.'.
**25.04.1990** Service defect: 'UN - GENERAL SHUTDOWN - BLEED SCREW ON TOP OF FRONT FILTER TIGHTENED A/C LEAKING.'.
**27.04.1990** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR SHUTTING DOWN.CHECKED UNABLE TO FAULT IN DEPOT.'.
**09.05.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R5 WICK CHANGED'.
**17.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CRACK TESTED,OK.'.
**04.06.1990** Service defect: 'UN - BLOCKED FILTERS - CAR BODY & TURBO FILTERS CHANGED.'.
**09.06.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - GROUND RELAY DUE TO SLIGHT COPPER DRAG.P-1MEG.'.
**21.06.1990** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - ENGINE BOOKED FOR SHUTTING DOWN.PILOT VALVE IN GOVERNOR REPLACED.ENGINE SPEEDS CHECKED & ADJUSTED.'.
**22.08.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED.(IN 73 & 31).'.
**22.08.1990** Service defect: 'UN - TRACTION MOTOR - TM'S CHANGED (IN127,172,8,144,C71,247).'.
**03.09.1990** Service defect: 'UN - TRACTION MOTOR - NO1 TM CHANGED A/C DAMAGED COMM.(IN C78 OUT 246)'.
**24.09.1990** Service defect: 'UN - LUBRICATING SYSTEM - VICTAULIC JOINT RENEWED A/C SPLIT.'.
**01.10.1990** Service defect: 'UN - EMTIME NO3 TM CHANGED,IN S18 OUT 132 A/C EARTHED.'.
**18.10.1990** Service defect: 'UN - FUEL SYSTEM - FUEL TAG MODS COMPLETED.'.

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**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**952**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**953**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**25.07.1989** Service defect: 'UN - AUXILLARY MACHINES - 'B'TM BLOWER BELTS REPLACED.'.
**15.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - ALL WICKS CHANGED.'.
**04.12.1989** Service defect: 'UN - FUEL SYSTEM - NEW FIBRE WASHERS FITTED TO SMALL PIPE ON SIDE OF FUEL TANK A/C LEAKING.'.
**06.12.1989** Service defect: 'UN - MAIN GENERATOR - MAIN GEN CLEANED.'.
**08.12.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - CR3 TRANSITION CAN REPLACED.'.
**08.12.1989** Service defect: 'UN - WHEELSLIP - W/SLIP LIGHT ON AT 50KPH.REVERSER,M/B SWITCH,CONTACTORS,FS CONTACTORS & RESISTORS CHECKED OK.'.

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**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**14.07.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN VEED OUT A/C COPPER DRAG.P-600K.'.

**14.07.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 2 BRUSHES CHANGED IN NO2 TM A/C BRAIDS.NO2 TM HAS FLATS.'.
**26.07.1989** Service defect: 'SW - TRACTION MOTOR - NO2 TM COMM GROUND A/C FLATS.'.
**18.08.1989** Service defect: 'UN - FUEL SYSTEM - RETURN FUEL PIPE REPAIRED A/C LEAKING.'.
**28.08.1989** Service defect: 'UN - AUXILLARY MACHINES - REAR BLOWER BELTS REPLACED.'.
**28.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L5 WICK REPLACED.'.
**02.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1,L4,L5,R2 WICKS CHANGED A/C DIRTY.'.
**13.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END AUTO COUPLER CHANGED A/C WORN.'.
**17.11.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY LEAD REPAIRED A/C BLOWN OFF.'.
**23.11.1989** Service defect: 'UN - GENERAL - 'A'END LHS WINDOW REPAIRED.'.
**18.12.1989** Service defect: 'UN - VIGILANCE - TIMING CHOKE CLEARED A/C SLOW OPERATION OF VIGILANCE.'.
**20.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2,L4,L5,R3,R5,R6 WICKS REPLACED.'.
**20.01.1990** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER KNUCKLE REPLACED.'.
**22.01.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN INSULATORS,V RING COMM CLEANED.P-400K.'.
**02.02.1990** Service defect: 'TS - TRACTION MOTOR - NO6 TM CHANGED A/C EARTH.(IN 90 OUT 136).'.
**20.02.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN WASHED.'.
**22.03.1990** Service defect: 'UN - ENGINE - LOCO BOOKED FOR VIBRATION.ENGINE MOUNTINGS CHECKED.'.
**22.03.1990** Service defect: 'UN - GENERAL LOSS OF POWER - LOCO BOOKED VERY WEAK.NOTCH 1 POWER 250 AMPS,ALL CYLINDERS FIRING.FP 22LBS,OP 60-70,REVS OK.'.
**30.03.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B'END TOP JUMPER RECEPTACLE REPAIRED'.
**30.03.1990** Service defect: 'UN - VIGILANCE - DOUBLE CHECKED VALVE GASKETS REPLACED.'.
**09.04.1990** Service defect: 'TS - GENERAL SHUTDOWN - LOCO BOOKED FOR SHUTTING DOWN.CHECKED IN DEPOT,NO FAULT FOUND.'.
**17.04.1990** Service defect: 'UN - MAIN GENERATOR - M/G VERY SLIGHT COPPER DRAG - TO BE MONITORED.NO FLASHOVER VISIBLE.'.
**24.04.1990** Service defect: 'UN - TRACTION MOTOR - NO 4 TM CHANGED A/C EARTH ON INTERPOLES.(IN 141 OUT 44).'.
**18.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BOOKED FOR LOW POWER.LIMIT PANEL CHANGED.'.
**25.05.1990** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R2,R5,R6,L1,L6 WICKS REPLACED.'.
**25.05.1990** Service defect: 'C - ENGINE CYLINDER HEADS - R4 HEAD CHANGED.'.
**25.05.1990** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.
**10.06.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - ALL CYL HEADS CHANGED EXCEPT R4.'.
**18.06.1990** Service defect: 'UN - RADIATOR LEVEL TO MONITOR A/C LOSING WATER.'.

**955**

Details: locomotive '955 K' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $245900
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 24.08.1961
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 12.02.94
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 12.05.1993 | | |
| Last Lift: | 20.12.1985 | | |
| SW Service Mileage: | 389924 KM | SW Service Date: | 01.03.1991 |
| A Service Mileage: | 442030 KM | A Service Date: | 08.01.1992 |
| B Service Mileage: | 122231 KM | B Service Date: | 12.05.1988 |
| C Service Mileage: | 416655 KM | C Service Date: | 04.09.1991 |
| D Service Mileage: | 211421 KM | D Service Date: | 24.11.1989 |
| WT Service Mileage: | 400968 KM | WT Service Date: | 24.06.1991 |
| US Service Mileage: | 312220 KM | A Service Date: | 12.05.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**17.07.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR 3 G/R'S.MAIN GEN,TM'S,CABLES,GRIDS & BLOWER CHECK-ED OK.MEGGER READING DOWN 50K TO 30K.SUSPECT MOISTURE.'.
**17.07.1989** Service defect: 'TS - TRACTION MOTOR - NO3 TM CHANGED A/C EARTH ON ARMATURE.(IN C107 OUT 42).'.
**18.07.1989** Service defect: 'SW - MAIN GENERATOR - MAIN GEN CURED.'.
**21.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES DUPLEX GAUGE CHANGED A/C LOW READINGS.'.
**01.08.1989** Service defect: 'SW - ENGINE LINER - L1 LINER SEALS RENEWED.'.
**11.08.1989** Service defect: 'SW - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C WATER.'.
**29.08.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - SLIGHT FLASH ON MAIN GEN.V RING,COMM,INSULATORS CLEANED.'.
**29.08.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BRUSH REPLACED IN NO5 TM A/C STUCK.'.

**01.09.1989** Service defect: 'UN - MAIN GENERATOR - MAIN GEN VEED OUT.'.
**02.10.1989** Service defect: 'UN - TRACTION MOTOR - NO2 TM CHANGED A/C RISER BARS.(IN 153 C21 OUT). NO3 TM CHANGED A/C THROWING SOLDER.(IN 167 C107 OUT).'.
**10.10.1989** Service defect: 'UN - TRACTION MOTOR - NO6 TM CHANGED A/C EARTH ON FIELD.(IN 37 OUT C89).'.
**25.10.1989** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR SHUTTING DOWN.OIL PRESSURE CHECKED,OK.NO FAULT FOUND.'.
**10.11.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - FLASH ON MAIN GEN CLEANED.P-600K.'.
**18.11.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN FLASHED A/C COPPER DRAG,CLEANED.P-200K.'.
**24.11.1989** Service defect: 'D - ELECTRICAL MAINTENANCE -WIRING - 'B'END WIRING TO WHEELSLIP RELAY REPLACED.'.
**10.12.1989** Service defect: 'UN - DYNAMIC BRAKE - BKR2 CLEANED A/C D/BRAKE NOT THROWING OVER.'.
**10.12.1989** Service defect: 'UN - MAIN GENERATOR - MAIN GEN VEED OUT.'.
**09.01.1990** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - WIRE TIGHTENED & RE-LUGGED ON ENGINE SPEED RELAY.'.
**13.03.1990** Service defect: 'SW - ENGINE CYLINDER HEADS - HEADS CHANGED A/C CRACKED (LOW WATER)'.
**13.03.1990** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED A/C CRACKED HOUSING'.
**13.03.1990** Service defect: 'SW - GENERAL - CAB UPGRADE AS PER FLEET UPGRADE REQUIREMENTS.'.
**13.03.1990** Service defect: 'SW - GENERAL - LOAD TEST COMPLETED .'.
**13.03.1990** Service defect: 'SW - TRACTION MOTOR THROWING SOLDER - BOGIES CHANGED A/C TRACTION MOTORS THROWING SOLDER, OUTPUT OF GENERATOR TO CHECK.'.
**14.03.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED.'.
**23.03.1990** Service defect: 'UN - GENERAL SHUTDOWN - ENGINE SHUT DOWN.OP 48/58,F/P 25.'.
**24.03.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR G/RELAY.TM'S CHECKED OK.M/GEN CLEANED.JUMPER CABLE FOUND TO HAVE A EARTH.'.
**28.03.1990** Service defect: 'UN - COOLING SYSTEM OVERHEATING - ENGINE SPEED ADJUSTED.OIL PRESSURE ADJUSTED A/C HOT ENGINE.'.
**30.03.1990** Service defect: 'UN - VIGILANCE - VENT HOLE REDRILLED.GASKETS RENEWED IN TYPE D DOUBLE CHECK VALVE.'.
**11.04.1990** Service defect: 'UN - BOGIE - BROKEN BOLT IN AXLE BOX COVER REPLACED.'.
**11.04.1990** Service defect: 'UN - FUEL SYSTEM LINES - R/1 H/P FUEL LINE REPLACED A/C LEAKING.'.
**11.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L1 SAND PIPE SECURED & CLEARED.'.
**13.02.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES TOPPED WITH WATER'.
**19.02.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 'A'END SANDING VALVE (REVERSE) REPLACED WITH SECOND HAND UNIT,A/C FAULTY.'.
**19.02.1991** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - NO 19 CHECK VALVE REMOVED & CLEANED. NEW GASKET FITTED. INDEPENDANT BRAKE VALVE REPLACED 'A' END. PILOT AIR VALVE,'.
**19.02.1991** Service defect: 'A - VIGILANCE - VIG REPLACED.'.
**19.02.1991** Service defect: 'A - 'A'END DOUBLE CHECK VALVE(VIG)TO REMOVE&REPAIR.A/C'.
**19.02.1991** Service defect: 'A - VIG NOT WORKING.'B'END TM MOTOR BLOWER BEARING TO'.
**19.02.1991** Service defect: 'A - REPLACE A/C LOOSE IN HOUSING.'.
**26.02.1991** Service defect: 'SW - REPAIRS TO BOGIES & WHEELSETS,REPAIRS TO BATTERIES'.
**26.02.1991** Service defect: 'SW - & VIGILANCE CONTROL. AIR BRAKE TO BE TESTED.'.
**21.03.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED,A/C FLAT BATTS,BATTS & VOLTAGE REG CHECKED72 VOLTS.'.
**25.03.1991** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED,NEEDS BATT CHANGE.'.
**04.04.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTS CHECKED,OK FOR TRAFFIC,BATTS TO MONITOR.'.
**20.06.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 2 WHEELSET REPLACED,A/C NO2 RHS AXLE BOX BEARING U/S.'.
**20.06.1991** Service defect: 'TS - CONTACTOR EP VALVES - SANDING MAGNET VALVE REPLACED.'.
**20.06.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - PILOT VALVE REPLACED,GOVERNOR OIL REPLENISHED.'.
**20.06.1991** Service defect: 'TS - GENERAL - OBSERVERS SIDE STEP PUT BACK IN PLACE.'.
**20.06.1991** Service defect: 'TS - VIGILANCE - DOUBLE CHECK VALVE ON VIG REPAIRED- CHECKED VIG OK.'.
**25.06.1991** Service defect: 'TS - FUEL SYSTEM PUMP - ELECTRICAL FUEL PUMP CHECKED OK,'.
**25.06.1991** Service defect: 'TS - GENERAL SHUTDOWN - LOW OIL SHUTDOWN ON THROTTLE OFF,OIL PRESSURE SWITCH ADJUSTED TO 26PSI,A/C TOO HIGH.'.
**02.07.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR RENEWED,PILOT VALVE FITTED TO GOV.GOV LUBE OIL CHANGED. GOV LUBE OIL PUMP CHANGED.'.
**02.07.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - AIR FILTERS REPLACED ON COMPRESSOR.'.
**15.08.1991** Service defect: 'UN - MAIN GENERATOR - MAIN GEN WASHED & VEED OUT,P=80K.'.
**21.08.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INTAKE FILTERS REPLACED & BOLTS TIGHTENED.'.
**21.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - COPPER PIPE ON FUEL TANK REPAIRED, A/C FITTING DAMAGED.'.
**04.09.1991** Service defect: 'C - AUXILLARY MACHINES - AUX GEN COMM VEED & CLEANED.'.
**04.09.1991** Service defect: 'C - CONTACTOR EP VALVES - P32 EP VALVE REPLACED,A/C LEAKING.'.
**04.09.1991** Service defect: 'C - DYNAMIC BRAKE - 7 BRUSHES CHANGED OUT OF DYN/BRAKE BLOWER MOTOR.'.

**04.09.1991** Service defect: 'C - ENGINE GOVERNOR - GOVERNOR REPLACED EX 938, A/C HUNTING.'.
**04.09.1991** Service defect: 'C - TRACTION MOTOR BRUSHES - BRUSHES CHANGED ON NO 3 & 4 T/M'S A/C OILY.24 CHANGED 16- OILY,8-CONDEMNING LIMIT.'.
**30.09.1991** Service defect: 'UN - 'B'END TRACTION MOTOR BLOWER BELTS TO REPLACE.'.
**11.10.1991** Service defect: 'UN - FUEL SYSTEM LINES - FUEL RETURN PIPE REPAIRED A/C SPLIT.'.
**19.11.1991** Service defect: 'UN - D/BRAKE TO REPAIR.19/11.'.
**21.11.1991** Service defect: 'TS - DYNAMIC BRAKE - DYN BRAKE TANK REPLACED.TESTED OK.'.
**07.01.1992** Service defect: 'UN - BOGIE - BOGI LEANING TO LEFT.-CENTRE WEAR PLATES REPAIRED.'.
**08.01.1992** Service defect: 'A - MECHANICAL EQUIPMENT - T/M BELTS REPLACED. CONTROL AIR PRESSURE GAUGE REPLACED.'.
**08.01.1992** Service defect: 'A - OTHER BODY REPAIRS - SERVICE WATER TANK REPAIRED.'.
**08.01.1992** Service defect: 'A - D/SIDE-F/SIDE SEAT CUSHIONS TO REPAIR.'.
**13.03.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER CHANGED. AIR LINE MOD. FITTED.'.
**03.04.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - 'B' END PACKAGE REPLACED.'.
**14.04.1992** Service defect: 'UN - BOGIE - YOKE PIN REPLACED ON DRAW GEAR 'B'END.'.
**14.04.1992** Service defect: 'UN - MAIN GENERATOR - M/GEN VEE OUT COMPLETED,VEE RING PAINTED, GEN AIR CURED.'.
**08.07.1992** Service defect: 'UN - EXCESSIVE BLOW-BY. TO BE MONITORED.-USE LOCALLY'.
**08.07.1992** Service defect: 'UN - ONLY.'.
**14.07.1992** Service defect: 'FA - BOGIE - NO.4 GEAR HAS TOOTH MISSING.'.
**14.07.1992** Service defect: 'FA - ENGINE PISTON - R1 HEAD REMOVED AND PISTON U/S.'.
**14.07.1992** Service defect: 'FA - 955 HAS BEEN STORED.'.
**12.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - THIS LOCO HAS BEEN CANNABALISED.'.
**12.05.1993** Service defect: 'UN - THIS LOCO HAAS BEEN STORED.'.

### 957

Details: locomotive '957 F' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $245900
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 08.03.1962
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 12.02.94
**BSG Code:** LSAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 15.10.1991 | | |
| Last Lift: | 28.10.1982 | | |
| SW Service Mileage: | 494759 KM | SW Service Date: | 16.07.1991 |
| A Service Mileage: | 505377 KM | A Service Date: | 11.09.1991 |
| B Service Mileage: | 435258 KM | B Service Date: | 21.09.1990 |
| C Service Mileage: | 483215 KM | C Service Date: | 30.05.1991 |
| E Service Mileage: | 395404 KM | A Service Date: | 28.01.1990 |
| WT Service Mileage: | 403641 KM | WT Service Date: | 12.03.1990 |
| US Service Mileage: | 510313 KM | A Service Date: | 15.10.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**03.07.1989** Service defect: 'SW - ENGINE - ENGINE EX 962 FITTED - MAIN GEN, GOVERNOR FITTED TO EX 962 REMOVE FROM 957 ENGINE - REVS INCREASED TO 1025 - RACKS 32MM'.
**03.07.1989** Service defect: 'SW - GENERAL - ENGINE ROOM, CABS AND TOILET CLEANED'.
**03.07.1989** Service defect: 'SW - OTHER BODY REPAIRS - CAB WINDOW SEALS NOT CHANGED A/C IN SATISFACTORY CONDITION ALL DOOR SEALS AND CUBICLE SEALS CHKD & REPLDF AS REQUIRED'.
**03.07.1989** Service defect: 'SW - OTHER BODY REPAIRS - RADIATORHATCHES FITTED - SERVICE WATER REMOVED, REPAIRED AND REFITTED - 'A' END FRONT WINDOWS REPLACED'.
**21.07.1989** Service defect: 'SW - GENERAL - WATER COOLER REMOVED & HOLE SEALED.F/MANS SEAT REPLACED. EXHAUST FROM VIGILANCE PIPED TO OUTSIDE OF LOCO.'.
**27.07.1989** Service defect: 'UN - ENGINE - ENGINE REVS ADJUSTED FROM 2600-2720 A/C OVERSPEED OPERATED.'.
**13.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHANGED.'.
**22.08.1989** Service defect: 'UN - EXHAUST - SHORT EXHAUST CONNECTOR CHANGED.'.
**24.08.1989** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR BEARING SUPPORT PLATE RENEWED.'.
**07.09.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R1 WICK REPLACED.'.
**07.09.1989** Service defect: 'A - TRACTION MOTOR - NO5 CLEAT BOLT REWELDED TO FRAME.'.
**27.09.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REG & CURRENT LIMIT REPLACED.25/9.'.
**06.10.1989** Service defect: 'SW - GENERAL - LOAD TEST COMPLETE AS PER INSTRUCTIONS'.
**19.10.1989** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - STABILIZING RHEOSTAT RENEWED.A POWER REACTOR RENEWED.A/C ENGINE HUNTING.'.
**25.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED A/C FLAT BATTERIES.'.
**03.11.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY BOX REPAIRED.FULL SET OF BATTERIES CHANGED.'.
**13.11.1989** Service defect: 'UN - GENERAL - WINDOW SEALS REPLACED.'.
**28.11.1989** Service defect: 'UN - ENGINE - BOOKED FOR TORCHING.ALL ENGINE AIR FILTERS CHANGED.TURBO RUNDOWN CHECKED OK.'.

**28.11.1989** Service defect: 'UN - FUEL PUMPS TO CALIBRATE.28/11*'.
**05.12.1989** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.(IN 85775VD).'.
**05.12.1989** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMPS RE-CALIBRATED.'.
**05.12.1989** Service defect: 'TS - TRACTION MOTOR - NO 5 TM BOOKED FOR BURNING SMELL.NO 4,5,6 TM'S CHECKED OK.'.
**09.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SENT TO WTM FOR WHEEL ATTENTION.'.
**12.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**12.03.1990** Service defect: 'WT - MILE END BRAKES AJD'.
**14.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BOOKED FOR DRAGGING BRAKES.BRAKES TESTED SINGLE & IN CONSISTNO FAULT FOUND.'.
**23.03.1990** Service defect: 'UN - GENERAL SHUTDOWN - ENGINE SHUT DOWN.F/P 30,O/P60-70.'.
**27.04.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - L4 CYL HEAD REPLACED.'.
**27.04.1990** Service defect: 'UN - ENGINE PISTON - L4 PISTON REPLACED.'.
**27.04.1990** Service defect: 'UN - FUEL SYSTEM LINES - L4 HP FUEL LINE REPLACED'.
**01.05.1990** Service defect: 'UN - AUXILLARY MACHINES - CRANKCASE EXHAUSTER MOTOR REPLACED.'.
**01.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED.'.
**03.05.1990** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP CHANGED.'.
**21.05.1990** Service defect: 'UN - BOGIE - DERAILMENT DAMAGE REPAIRED.'.
**01.06.1990** Service defect: 'UN - GENERAL - DRIVERS SIDE CAB DOOR REPAIRED.'.
**02.06.1990** Service defect: 'UN - BOGIE - L2 SLACK ADJUSTER PIN REPLACED A/C CRACKED.'.
**02.06.1990** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - 'B'END BOLSTER REPLACED.'.
**07.07.1990** Service defect: 'UN - TRACTION MOTOR - NO2 TM CHANGED A/C EARTH.(IN 160 OUT 82).'.
**17.07.1990** Service defect: 'UN - DYNAMIC BRAKE - G/RELAY IN D/BRAKE.'A'LEAD NO5 TM,LOCO SIDE,REINSULATED A/C WORN.'.
**17.07.1990** Service defect: 'UN - NO1 TM LEAD TO MONITOR.'.
**18.07.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.DBF CONTACTOR SHUTE FOUND AJAR, REPLACED,TESTED OK.'.
**17.08.1990** Service defect: 'SW - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - (7) DYNAMIC BRAKE GRIDS & INSULATORS CHANGED. LOCOMOTIVE FLASH TESTED & FOUND O.K.'.
**17.08.1990** Service defect: 'SW - TRACTION MOTOR - NO. 5 TRACTION MOTOR CHANGED. (C75 OUT & C79 IN)'.
**28.08.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - L4 CYLINDER HEAD CHANGED.'.
**12.09.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - R1 WICK REPLACED.'.
**12.09.1990** Service defect: 'UN - COOLING SYSTEM - WATER FITTING TO TURBO LHS REPAIRED.'.
**17.10.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - L4 CYLINDER HEAD REPLACED A/C CRACKED.'.
**26.10.1990** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - STABILISING RHEOSTAT REPLACED.'.
**18.11.1990** Service defect: 'UN - GOV REHOSTATS TO RENEW.'.
**11.12.1990** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MINOR FLASH ON MAIN GEN,CLEANED. A5 CABLE LOW READING 5OHM.'.
**13.12.1990** Service defect: 'SW - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED UP A/C MINOR FLASH.'.
**31.01.1991** Service defect: 'A - ENGINE CYLINDER HEADS - L5 CYLINDER HEAD CHANGED30/1*'.
**07.02.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - ONE GROUND RELAY-TM'S/MG CHECKED OKAY,NO 5 HAD COVER HANGING OFF BY ONE BOLT.'.
**07.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAVELS ADJUSTED.'.
**18.02.1991** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN VEE RINGS CLEANED.INSULATORS CLEANED. A/C GR'S.*'.
**18.02.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO4&5 TM'SVEE RINGS CLEANED.INSULATORS CLEANED.P-500K.*'.
**19.02.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - TM'S & MAIN GEN CHECKED OK.P=300K.A/C GR'S.19/2*'.
**19.02.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 14 BRUSHES CHANGED OUT OF TM'S 4 & 5, FLASHOVERS CLEANED UP.P=300K.20/2*'.
**25.03.1991** Service defect: 'UN - CONTACTOR EP VALVES - EP VALVE CHANGED ON P31.'.
**25.03.1991** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - BRAKE GRIDS REPLACED.'.
**25.03.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO5 T/M SLIGHT FLASH,OTHER TM'S CHECKED,OK.'.
**26.03.1991** Service defect: 'FA - ELECTRICAL MISC. GROUND RELAY - TM NO5 AA CABLE RUBBED THROUGH SLEEVING TO EARTH-REPLACED BOOT,A/C G/R'S IN DYN/BRAKE.'.
**10.04.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE POTENTIOMETER REPLACED TESTED OK,A/C BEHAVING ERRATICALLY.'.
**15.04.1991** Service defect: 'UN - FUEL SYSTEM - FUEL LINE REGULATOR RETURN PIPE REPLACED,A/C WORN THROUGH ONFLOOR.LOCO CHECKED OK.'.
**26.04.1991** Service defect: 'UN - LUBRICATING SYSTEM - CONCERTINA CHANGED,A/C OIL LEAKING FROM FLEXIBLE EXHAUST JOINT FROM TURBO TO EXHAUST.'.
**13.05.1991** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR CHANGED,A/C GR'S.IN-12627 OUT-12734'.
**30.05.1991** Service defect: 'C - BLOCKED FILTERS - COMPRESSOR INTAKE FILTERS RENEWED,A/C BLOCKED.'.
**30.05.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1,R2,R3,R4,R5,R6,L1,L2,L3,L4 WICKS CHANGED.'.
**30.05.1991** Service defect: 'C - ENGINE WATER LEAK - VICTULIC RUBBER FITTED TO LEFT SIDE WATER RAIL,A/C LEAKING.'.

**30.05.1991** Service defect: 'C - FUEL SYSTEM PUMP - FUEL PUMP SPIDER INSERT RENEWED,A/C BROKEN.'.
**30.05.1991** Service defect: 'C - MAIN GENERATOR - 30 BRUSHES REPLACED IN MAIN GEN,RISES CLEANED,SLIGHT COPPER DRAG BRUSHED OUT.'.
**30.05.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE CHANGED.'.
**30.05.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - VIG PILOT AIR VALVE REPLACED.BRAKE PIPE REPAIRS COMPLETED.'.
**30.05.1991** Service defect: 'UN - GENERAL - SEAT BACK IS WELDED,UNABLE TO ADJUST.'.
**30.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER PIPE REPAIRED.'.
**19.06.1991** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP CHANGED.'.
**24.06.1991** Service defect: 'UN - BATTERY MAINTENANCE - 1 BATTERY REPLACED,A/C U/S.BATTERY CHARGING OK.'.
**24.06.1991** Service defect: 'UN - VIGILANCE - VIG FOUND CUT OUT,CHECKED OK,NEW SEAL FITTED.'.
**16.07.1991** Service defect: 'SW - GENERAL - PHONE FITTED.'.
**23.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES REPLACED EX 960.VOLTAGE SET AT 72V.'.
**11.09.1991** Service defect: 'A - BOGIE - ALL SUPPORT BEARING OILS CHANGED.'.
**11.09.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R1,R3,L1 & L2 WICKS CHANGED,A/C DIRTY.'.
**11.09.1991** Service defect: 'A - COOLING SYSTEM - ENGINE COOLANT CHANGED,A/C LAB REPORT.'.
**11.09.1991** Service defect: 'A - R6 SUPPORT BEARING FILLER CAP TO REPLACE,NIL STOCK'.
**11.09.1991** Service defect: 'A - MPC.ALL INJECTORS TO BE CHANGED.11/9.'.
**15.10.1991** Service defect: 'UN - STORED.'.

**958**

Details: locomotive '958 Y' in AN 'Mainland Division'.

**Owner:** ARHS
**Operator:** D
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $237480
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 05.05.1965
**Operating System:** ARHS
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 25.04.92;SOLD TO ARHS 09.03.92
**BSG Code:** LBSO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 06.03.1992 | | |
| Last Lift: | 06.05.1987 | | |
| SW Service Mileage: | 208137 KM | SW Service Date: | 08.06.1989 |
| A Service Mileage: | 461587 KM | A Service Date: | 21.08.1991 |
| B Service Mileage: | 436681 KM | B Service Date: | 16.05.1991 |
| C Service Mileage: | 379428 KM | C Service Date: | 02.11.1990 |
| D Service Mileage: | 234667 KM | D Service Date: | 30.08.1989 |
| E Service Mileage: | 484160 KM | A Service Date: | 09.01.1992 |
| F Service Mileage: | 0 KM | A Service Date: | 06.05.1987 |
| WT Service Mileage: | 484170 KM | WT Service Date: | 13.01.1992 |
| US Service Mileage: | 488406 KM | A Service Date: | 06.03.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**03.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - R1 LEAF SPRING REPLACED A/C COLLAPSED.'.
**02.08.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - REPLACED CANS,CHECKED TRANSITION SEQUENCE IN SHOP,OK.A/C WHEELSLIP BETWEEN 30 & 40 KPH.'.
**04.08.1989** Service defect: 'TS - WHEELSLIP - LOOSE CONNECTION ON BOTTOM OF FS21 RETIGHTENED A/C WHEELSLIP'.
**14.08.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - AUX CONTACT ON S1 ADJUSTED A/C LOAD METER NOT REGISTERING AFTER FIRST TRANSITION.'.
**14.08.1989** Service defect: 'UN - EP VALVES ON P1 & P2 TO REPLACE A/C SLIGHT LEAKS.'.
**14.08.1989** Service defect: 'UN - 14/8.'.
**17.08.1989** Service defect: 'UN - BROKEN PIPE - PIPE FROM TURBO TO HEADER TANK REPAIRED A/C LEAKING.'.
**17.08.1989** Service defect: 'UN - CONTACTOR EP VALVES - EP VALVES ON P1 & P2 REPLACED A/C BLOWING.'.
**04.09.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - 'B'END HEADLIGHT REPAIRED.'.
**13.09.1989** Service defect: 'UN - 'B'END LOWER JUMPER RECEPTICAL CASTING BROKEN.'.
**15.09.1989** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - 'B'END LOWER JUMPER CABLE RECEPTACLE CHANGED.'.
**21.09.1989** Service defect: 'TS - AUXILLARY MACHINES - EXCITER CHANGED A/C BROKEN SHAFT.'.
**12.10.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED NOT WORKING.CHECKED IN DEPOT,3.5-35.6V.'.
**12.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - POWER POINT REPLACED.'.
**18.10.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - FLASH/OVER NOTCH 3-4.- NO.1 T/MOTOR CLEANED/UP.(FLASHED) - OTHER T/MOTORS CHECKED OK.'.
**25.10.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - FLASH ON MAIN GEN CLEANED.P-1.5M.'.
**08.11.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - INSULATORS,COMM,V RING CLEANED.P-4M.'.
**08.11.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO1 TM V RING,INSULATORS,COMM CLEANED A/C FLASH.'.
**22.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - RHS 'B'BOGIE LEAF SPRINGS CHANGED.'.

**27.11.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - FLASH ON NO1 TM CLEANED.'.
**07.12.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN COMM,INSULATORS,V RING CLEANED A/C FLASH OVER.'.
**07.12.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO1 TM CLEANED A/C FLASH OVER. P-1.5M'.
**11.12.1989** Service defect: 'TS - COOLING SYSTEM OVERHEATING - BOOKED FOR HOT ENGINE,OPERATION OF FANS CHECKED OK.'.
**11.12.1989** Service defect: 'TS - DYNAMIC BRAKE - D/BRAKE BOOKED WEAK,CHECKED OK 8V-40V.'.
**11.12.1989** Service defect: 'TS - MAIN GENERATOR FLASHOVER - FLASH ON MAIN GEN CLEANED.'.
**11.12.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - BAD FLASHES ON NO 1 & 6 TM'S CLEANED.P1&HALF MEG.'.
**13.12.1989** Service defect: 'UN - TRACTION MOTOR - NO1 TM CHANGED A/C GROUNDS.(IN C107 OUT 25).'.
**21.12.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION SET UP.'.
**25.01.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REAR ASSEMBLY OF M/B SWITCH REPLACED.'.
**25.01.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN V RING PAINTED.P1.5M.'.
**25.01.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO1 TM V RING CLEANED.'.
**23.02.1990** Service defect: 'UN - COOLING SYSTEM - WATER PIPE ABOVE TURBO REPAIRED A/C LEAKING.'.
**05.03.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSS OF POWER (CONTACTS NOT PICKING UP) ALL CONTACTS PICKING UP OK IN DEPOT.'.
**10.04.1990** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DISCHARGE VALVE REPLACED.'.
**25.04.1990** Service defect: 'UN - WHEELS TO PROFILE,WTM,RN 25/4'.
**26.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**30.04.1990** Service defect: 'UN - DYNAMIC BRAKE - BOOKED FOR NO D/BRAKE.HANDLE INCORRECTLY SET UP'B'END.'.
**16.05.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - COMM,V RING,INSULATORS CLEANED A/C FLASH OVER.'.
**16.05.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO6 TM CLEANED UP A/C FLASH OVER.'.
**24.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - REPLACED BROKEN LUG IN SPEEDO HEAD.'.
**27.07.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - R6 FUEL INJECTOR REPLACED.A/C ENGINE MISFIRING.'.
**14.08.1990** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - WATER TEMP SWITCH CHANGED.R2 TEMP SWITCH CHANGED.'.
**14.08.1990** Service defect: 'A - FUEL SYSTEM PUMP - L3 FUEL PUMP REPLACED.'.
**21.08.1990** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.
**28.08.1990** Service defect: 'UN - COOLING SYSTEM OVERHEATING - THERMOSTAT RESET TO 195 FROM 155 DEGREES.'.
**18.09.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON NO1 WHEELS.SENT TO WTM.'.
**24.10.1990** Service defect: 'UN - GENERAL ACCIDENT - DERAILMENT DAMAGE REPAIRED.'.
**10.11.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - FLASH ON NO1 TM CLEANED.P-200K.'.
**29.01.1991** Service defect: 'UN - 'B'END TM BLOWER BEARINGS NOISY,NIPPLES REQUIRED,'.
**29.01.1991** Service defect: 'UN - TURBO WATER HOSE REQUIRED.'.
**06.02.1991** Service defect: 'TW - HAND BRAKE TO REPAIR,NOT WORKING PROPERLY*LHSWATER'.
**06.02.1991** Service defect: 'TW - VICTAULIC LEAKING AT TURBO TO REPLACE6/2*'.
**08.02.1991** Service defect: 'UN - BOGIE - NOS1@5 GEARCASE BOLTS TIGHTENED.'.
**08.02.1991** Service defect: 'UN - ENGINE - RIGHT REAR ENGINE MOUNT BOLT TIGHTENED'.
**08.02.1991** Service defect: 'UN - ENGINE WATER LEAK - TURBO WATER HOSE CHECKED OK FOR LEAKS-NONE FOUND.'.
**08.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**14.02.1991** Service defect: 'A - MAIN GENERATOR FLASHOVER - MAIN GEN, SLIGHT FLASH OVER -CLEANED OUT.'.
**14.02.1991** Service defect: 'A - TRACTION MOTOR FLASHOVER - NO'S 1 & 5 TM'S-FLASH OVER'S-CLEANED OUT.BRUSHES REPLACED. P=200K.'.
**15.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.4 WICK CHECKED OK.'.
**15.02.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSHES IN NO.1&5 T/MOTOR REMOVED. - (BROKEN PIG/TAILS)'.
**15.02.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - FLASH/OVER - M/GEN.CLEANED/UP A/C SLIGHT FLASH/OVER. - H.T.MEGGERED 0.15.'.
**15.02.1991** Service defect: 'UN - TRACTION MOTOR - T/MOTOR COVER - BOTTOM COVER NO.4 T/MOTOR SECURED.'.
**15.02.1991** Service defect: 'UN - RETURN TO M.P.R.FOR REPAIRS.'.
**25.02.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN/GEN CHECKED & CLEANED.A/C GR'S.'.
**25.02.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO1 T/M 'V'RING & RISERS CLEANED 'V' RING PAINTED.A/C GR'S.'.
**19.03.1991** Service defect: 'UN - VIGILANCE - CUT OFF VALVE REPLACED,A/C VIG CONTROL NOT BUILDING UP.'.
**18.04.1991** Service defect: 'UN - GENERAL - LOG BOOK REPAIRS COMPLETED.'.
**07.05.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO AXLE DRIVE REPLACED,A/C COLLECTOR BURNT OUT.'.
**07.05.1991** Service defect: 'TS - TRACTION MOTOR - NO 5 T/MOTOR REPLACED,A/C EARTH FAULT.OUT-C27-IN 110.'.
**16.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT

SANDING GEAR - R6 SANDING EQUIPMENT REPAIRED.L4 SANDING HOSE REPAIRED.'.

**16.05.1991** Service defect: 'B - VIGILANCE - VIG EQUIPMENT REPAIRED,PIPE REPLACED.'.

**31.07.1991** Service defect: 'TW - ICE BOX TO FIT & CONNECT.31/7.'.

**21.08.1991** Service defect: 'A - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL CHECKED OK.'.

**21.08.1991** Service defect: 'A - ELECT. MISC. - GAUGES & INSTRUMENTS - 'B'END LOAD METER REPLACED.'.

**21.08.1991** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO EXHAUST CASING BOLTS REPLACED & TIGHTENED.'.

**21.08.1991** Service defect: 'A - EXHAUST - STACK REPLACED,A/C U/S.BOTH SHORT EXHAUST CONNECTORS REPLACED.'.

**21.08.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - B END PEDESTAL ISOLATING COCK REPLACED.'.

**21.08.1991** Service defect: 'A - TRACTION MOTOR - TOP BRUSH HOLDER NO 6 T/M REPLACED,A/C FAULTY HAMMER.'.

**19.09.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - REPLACED EP VALVE GASKET P1 CONTACTOR,EP VALVE + GASKET P21 CONTACTOR,EP VALVE 531 CONTACTOR.'.

**19.09.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - 6 WIRE RUBBED THROUGH TO EARTH IN D/PEDESTAL,RETAPPED.'.

**26.09.1991** Service defect: 'TS - ENGINE WATER LEAK - DRESSER RUBBERS REPLACED.'.

**26.09.1991** Service defect: 'TS - FUEL SYSTEM LINES - FUEL LEAK REPAIRED.'.

**06.03.1992** Service defect: 'UN - BOGIE - BOGIES EXCHANGED WITH 957 OK.'.

**06.03.1992** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR INSPECTED AND LOCO MEGGERED TESTED OK.'.

**959**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**960**

Details: locomotive '960 T' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $237480
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 13.07.1965
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 29.08.92
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 26.02.1981 | | |
| SW Service Mileage: | 694866 KM | SW Service Date: | 19.12.1989 |
| A Service Mileage: | 686215 KM | A Service Date: | 23.04.1991 |
| B Service Mileage: | 533497 KM | B Service Date: | 05.07.1988 |
| C Service Mileage: | 665450 KM | C Service Date: | 09.08.1990 |
| D Service Mileage: | 622416 KM | D Service Date: | 09.01.1990 |
| US Service Mileage: | 694483 KM | A Service Date: | 24.05.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**06.07.1989** Service defect: 'UN - GENERAL ACCIDENT - TO ISL A/C ACCIDENT DAMAGE.'.

**19.09.1989** Service defect: 'SW - GENERAL - DYNAMIC BRAKE HATCH LOUVRES AND CONTRACTORS FITTED MODS COMPLETED NO'S 132 & 156'.

**19.09.1989** Service defect: 'SW - GENERAL - FUEL RACKS INCREASED TO 32MM AND ENGINE UPGRADED TO 1800HP'.

**19.09.1989** Service defect: 'SW - VIGILANCE - ELECTRICAL VIGILANCE FITTED 'A' END'.

**22.09.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EXCITER REPLACED A/C EARTH ON FIELDS.22/9.'.

**02.10.1989** Service defect: 'TS - FUEL SYSTEM INJECTORS - RIGHT BANK INJECTOR PUMPS CHANGED A/C LOCO LACKING POWER.'.

**17.10.1989** Service defect: 'UN - COOLING SYSTEM - L5,L6,WATER BRANCH PIPE GASKETS REPLACED.'.

**30.10.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - 44 WIRE IN 'B'END CONTROL STAND INSULATED A/C EARTH.'.

**30.10.1989** Service defect: 'UN - FUEL SYSTEM PUMP - LH BANK FUEL PUMPS CHANGED.'.

**01.11.1989** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE PT BLOWN - REPLACED CHECKED 2.5 - 32 VOLTS'.

**04.01.1990** Service defect: 'TS - FUEL SYSTEM - ALL CYL'S CHECKED FOR FIRING OK IN NOTCH 8.'.

**09.01.1990** Service defect: 'D - BOGIE - NO6 AXLE DUST SEAL REPLACED.'.

**09.01.1990** Service defect: 'D - BOGIE MAINTENANCE - WICKS - 6 WICKS REPLACED A/C VERY DIRTY.'.

**20.02.1990** Service defect: 'TS - EXHAUST - EXHAUST STACK REPLACED.ROOF HATCH REPAIRED.OIL BATH FILTER REPAIRED A/C FIRE IN TURBO AREA.'.

**23.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 2 WHEELSET CHANGED.'.

**04.04.1990** Service defect: 'TS - ENGINE CYLINDER HEADS - L4 CYL HEAD CHANGED A/C CRACKED VALVE.'.

**15.04.1990** Service defect: 'UN - ENGINE - R1,R2,R3 + 2 CONNECTOR JOINTS REPLACED.'.

**19.04.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - 17AA WIRE REPAIRED.C= 150K P= 100K A/C EARTH ON CONTROL.'.

**24.04.1990** Service defect: 'UN - WHEELSLIP - BOOKED FOR CONTINUOUS WHEELSLIP.REVERSER LUBRICATED A/C NOT THROWING OVER FULLY.'.

**27.04.1990** Service defect: 'UN - DYNAMIC BRAKE - 'A'END D/BRAKE POTENTIOMETER CHANGED A/C BURNT OUT.'.
**30.04.1990** Service defect: 'UN - DYNAMIC BRAKE - 'A'END D/BRAKE POTENTIOMETER REPLACED A/C BLOWN.'.
**17.05.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2,L5,L6,R2 WICKS REPLACED.'.
**17.05.1990** Service defect: 'A - GENERAL - 'B'END MAIN RES PIPE REPLACED.'.
**23.05.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INTER COOLER REPLACED.TURBO WATER HOSE REPLACED.'.
**05.06.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - AUX CONTACT ON BKT ADJUSTED A/C NOT MAKING.REPAIRED AT TB ON4/6.'.
**10.06.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE SELECTOR HANDLE CONTACTS CLEANED A/C D/BRAKE FAULTY.'.
**23.06.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSS OF POWER.CLEANED & ADJUSTED AUX CONTACTS ON P1.'.
**28.07.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - AUX GEN REPLACED A/C E ON C.'.
**09.08.1990** Service defect: 'C - BOGIE MAINTENANCE - WICKS - FULL SET OF WICKS CHANGED.'.
**31.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - L2 SPRING REPLACED.'.
**10.10.1990** Service defect: 'UN - EXHAUST - R1,2,3 EXHAUST CONNECTOR REPLACED.R4,5,6 L4,5,6 EXHAUST CONNECTOR GASKETS REPLACED.'.
**18.12.1990** Service defect: 'UN - NO 2,4,6 WHEELSETS TO REPLACE AT M.P.C.'.
**12.02.1991** Service defect: 'UN - BOGIE - BOGIES REPLACED A/C WHEEL SIZE'.
**12.02.1991** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYNAMIC BRAKE TANK REPLACED A/C GRIDS BURNT OUT'.
**12.02.1991** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LOADMETER REPLACED'.
**12.02.1991** Service defect: 'UN - VIGILANCE - NO'19B'CHECK VALVE REPLACED. PILOT AIR VALVE REPLACED A/C NO VIG.'.
**08.03.1991** Service defect: 'UN - FUEL SYSTEM - FUEL PIPE NEAR LOW PRESSURE RELIEF VALVE CHECKED OK IN DEPOT'.
**11.03.1991** Service defect: 'UN - CONTACTOR EP VALVES - LOOSE WIRE ON MAGNET VALVE TIGHTENED,TESTED OK.A/C AIR BLOWING FROM EP WHEN IN D/B.'.
**11.03.1991** Service defect: 'UN - EXHAUST - EXHAUST STACK REPLACED.'.
**18.03.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION. TWO CONTACTS CHANGED,A/C CONTACTORS DROPPING OUT'.
**04.04.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO3 T/M REPLACED,A/C EARTH.'.
**08.04.1991** Service defect: 'TS - COOLING SYSTEM - REPLACED TURBO WATER HOSE A/C SPLIT'.
**08.04.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - REPLACED M.R.SAFETY VAVLE A/C USED FOR ANOTHER LOCO.'.
**23.04.1991** Service defect: 'A - FUEL SYSTEM - L6 FUEL INLET JOINT REPAIRED,A/C LEAKING.'.
**23.04.1991** Service defect: 'A - TRACTION MOTOR - T/M'S DRIED OUT,A/C WATER WHILE ON WASH, LOCO MEGGERED OK.'.
**24.05.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - R4,R6,L6 HEADS CHANGED.'.
**24.05.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED.'.
**24.05.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTORS CHANGED.'.
**15.07.1991** Service defect: 'TS - STORED.'.

**961**

Details: locomotive '961 F' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $237480
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 16.08.1965
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**BSG Code:** LBAM

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 04.02.1997 | | |
| Last Lift: | 08.10.1987 | | |
| SW Service Mileage: | 601265 KM | SW Service Date: | 17.05.1996 |
| A Service Mileage: | 622561 KM | A Service Date: | 04.02.1997 |
| B Service Mileage: | 536823 KM | B Service Date: | 11.02.1995 |
| C Service Mileage: | 579408 KM | C Service Date: | 15.11.1995 |
| D Service Mileage: | 613099 KM | D Service Date: | 08.10.1996 |
| E Service Mileage: | 399846 KM | A Service Date: | 13.07.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 08.10.1987 |
| WT Service Mileage: | 419263 KM | WT Service Date: | 14.03.1994 |
| US Service Mileage: | 613382 KM | A Service Date: | 11.10.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**29.07.1989** Service defect: 'SW - RADIO REPAIR - RADIO INSTALATION COMPLETED.'.
**01.08.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - 'B'END F/MANS HEATER REWIRED.'.
**19.10.1989** Service defect: 'UN - TRACTION MOTOR - NO2 TM CHANGED A/C EARTH ON ARMATURE.(IN 158 OUT E63).'.
**07.12.1989** Service defect: 'UN - BOGIE - NO2 GEARCASE REPLACED.BRAKE GEAR REPLACED.SLUDGE TANK CHANGED A/C DERAILMENT.'.
**07.12.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - L5 CYL HEAD CHANGED A/C CRACKED VALVE.'.
**07.12.1989** Service defect: 'UN - FUEL SYSTEM PUMP - ALL FUEL PUMPS CHECKED FOR CALIBRATION.'.
**08.12.1989** Service defect: 'UN - BOGIE - BOOKED FOR SPARKS FROM 'B'BOGIE.BOGIES CHECKED OK.'.
**08.02.1990** Service defect: 'C - BOGIE - 'B'BOGIE REAR SHOCKER RENEWED.'.

**08.02.1990** Service defect: ‘C - BOGIE MAINTENANCE - WICKS - L3,R3 WICKS REPLACED.’.
**11.02.1990** Service defect: ‘TS - MAIN GENERATOR FLASHOVER - 4 BRUSHES,1 BRUSH HOLDER SPRING REPLACED,V RING,COMM CLEANEDA/C FLASH OVER.’.
**11.02.1990** Service defect: ‘TS - TRACTION MOTOR FLASHOVER - NO6 TM V RING,INSULATORS CLEANED A/C FLASH OVER.P-1M.’.
**25.02.1990** Service defect: ‘TS - MAIN GENERATOR FLASHOVER - MAIN GEN V RING,INSULATORS,COMM CLEANED.4 BRUSHES REPLACED.’.
**25.02.1990** Service defect: ‘TS - TRACTION MOTOR FLASHOVER - NO6 TM V RING,COMM,INSULATORS CLEANED A/C FLASH.P-1.5M.’.
**08.03.1990** Service defect: ‘UN - GENERAL - ‘A‘END F/MANS WINDOW REPAIRED.’.
**12.04.1990** Service defect: ‘UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - ‘B‘END BOTTOM JUMPER RECEPTACLE CHECKED OK.’.
**11.05.1990** Service defect: ‘UN - DYNAMIC BRAKE - ‘A‘END POTENTIOMETER REPLACED.’.
**19.05.1990** Service defect: ‘A - AIR INTAKE FILTERS TO REP NIL STOCK.’.
**24.05.1990** Service defect: ‘UN - DYNAMIC BRAKE - D/BRAKE RHEOSTAT MOUNTING BOLTS ADJUSTED.’.
**04.08.1990** Service defect: ‘UN - RADIO REPAIR - RADIO REPAIRS COMPLETED.’.
**21.08.1990** Service defect: ‘UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED.’.
**21.08.1990** Service defect: ‘UN - GENERAL ACCIDENT - ‘B‘END BRAKE HANGER,‘B‘END LEAF SPRING REPOSITIONED,NO4 GEARCASE REPLACED A/C DERAILMENT DAMAGE.’.
**21.08.1990** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - ‘A‘END COUPLER CHANGED.’.
**23.08.1990** Service defect: ‘D - BOGIE MAINTENANCE - WICKS - R2,R3,R4.R5,L2,L4,L5,L6 WICKS REPLACED.’.
**12.10.1990** Service defect: ‘UN - DYNAMIC BRAKE SETTING - A POT REPLACED,VOLTS SET 3.9//18.1VOLTS’.
**13.10.1990** Service defect: ‘UN - DYNAMIC BRAKE - POTENTIOMETER CHANGED A/C FAULTY.’.
**30.10.1990** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - GAUGE LIGHT RESISTOR REPLACED.’.
**30.10.1990** Service defect: ‘UN - LUBRICATING SYSTEM - NO3 OIL FILTER GASKET ON BANK OF 5 REPLACED.’.
**22.11.1990** Service defect: ‘A - BOGIE MAINTENANCE - WICKS - R1,R2,R3,L4 WICKS & OILS REPLACED.’.
**11.12.1990** Service defect: ‘TS - BATTERY MAINTENANCE - JUMP STARTED & CHECKED POWER & REVS. LEFT RUNNING TO CHARGE BATTERIES.’.
**17.12.1990** Service defect: ‘UN - OTHER BODY REPAIRS - WINDOW - SLIDING WINDOW CHANGED A/C BROKEN’.
**08.01.1991** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - REAR TRACTION MOTOR BLOWER CHANGED A/C BEARING U/S.’.
**13.02.1991** Service defect: ‘TS - BATTERY MAINTENANCE - BATTERIES TOPPED UP AND CHARGE CHECKED OK’.
**13.02.1991** Service defect: ‘TS - BATTERIES TO MONITOR’.
**21.02.1991** Service defect: ‘UN - DYNAMIC BRAKE REGULATOR - DYN/BRAKE RHEOSTAT REPLACED.‘A‘END.’.
**04.03.1991** Service defect: ‘UN - ENGINE TURBOCHARGER/SUPERCHARGER - AIR INTAKE SEAL ON TURBO REPLACED.’.
**06.03.1991** Service defect: ‘UN - FUEL SYSTEM LINES - FUEL RETURN LINE ON TANK REPAIRED.’.
**14.08.1991** Service defect: ‘TS - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET CHANGED,A/C DAMAGED AXLE BOX.’.
**14.08.1991** Service defect: ‘TS - CONTACTOR MISCELLANEOUS - CK1 ARC CHUTE REPLACED.’.
**14.08.1991** Service defect: ‘TS - FUEL SYSTEM - FUEL SYSTEM SIGHT GLASS REPLACED, A/C BROKEN IN HALF.’.
**14.08.1991** Service defect: ‘TS - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE HANDLE REPLACED.’.
**14.08.1991** Service defect: ‘TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED.’.
**14.08.1991** Service defect: ‘TS - TRACTION MOTOR EARTH - NO 5 T/MOTOR REPLACED, A/C EARTH.’.
**14.08.1991** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT ON CONTROL REPAIRED,A/C BURNT LOOM AT R2 CONTACTMOC=50K.’.
**14.08.1991** Service defect: ‘UN - ELECTRICAL MISC. GROUND RELAY - REPLACED 1 BRAKE GRID, A/C BROKEN,DAMAGED FRAME.CLEANED ALL INSULATORS, REPAIRED 1 INSULATOR.GRID -M= 2M.BLOWER MOTOR-’.
**14.08.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO RESISTOR REPAIRED.AIR LEAK ON SPEEDO REPAIRED.’.
**16.08.1991** Service defect: ‘UN - ELECTRICAL MISC. GROUND RELAY - DYNAMIC CHECKED FOR GR’S TESTED OK, YARD TESTED OK.’.
**16.08.1991** Service defect: ‘UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED, A/C CONTROL EARTH FOUND.’.
**19.08.1991** Service defect: ‘UN - DYNAMIC BRAKE - 61B WIRE REPLACED, A/C GR’S IN DYN.’.
**22.08.1991** Service defect: ‘UN - BOGIE - NO 1 AXLE COLLAR BETWEEN WHEEL & TRACTION MOTOR CHECKED OK &RELEASED TO TRAFFIC, A/C CRACKED.’.
**18.09.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE ‘A‘END CHECKED OK IN DEPOT.’.
**18.09.1991** Service defect: ‘UN - FIREMANS SIDE WINDOW SHATTERED,CAB TO CLEAN.18/9.’.
**06.11.1991** Service defect: ‘UN - ELECTRICAL MISC. GROUND RELAY - MAIN GEN CLEANED(V-RING),T/MOTORS CHECKED OK.POWER-1.5M,A/CGR’S.’.
**06.11.1991** Service defect: ‘UN - GENERAL - ‘B‘END OBS WINDOW REPLACED,A/C CRACKED.’.
**04.12.1991** Service defect: ‘A - ELECTRICAL MAINTENANCE -WIRING - FUEL PUMP WIRES REPAIRED.’.
**04.12.1991** Service defect: ‘TS - DYNAMIC BRAKE - DYN/BRAKE POT REPLACED,A/C TAKEN FOR 965.’.
**04.12.1991** Service defect: ‘TS - ELECTRICAL MAINTENANCE -WIRING - REPLACED WIRES TO ENGINE ROOM LIGHT.’.
**04.12.1991** Service defect: ‘TS - ENGINE AIR FILTERS - AIR FILTERS REPLACED.’.

**04.12.1991** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED,NO - 46417-L-2VB. AFTERCOOLER REPLACED.'.
**19.12.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE RHEOSTAT REPLACED,A/C FAULTY.'.
**19.12.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BALLAST LAMP REPLACED,A/C SPEEDO NOT WORKING.'.
**20.02.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHARGE RATE ADJUSTED TO 71.8V,CHECKS OUT OK.'.
**20.02.1992** Service defect: 'UN - DYNAMIC BRAKE SETTING - DYNAMIC BREAK REPAIRED.OK.REPLACED MLPR1 RESISTOR,ADJUSTED GLPR1 RESISTOR,REWIRED PART OF LOOM.'.
**20.02.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GAUGE LIGHT REPAIRED.OK.'.
**04.03.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR LEADS REMOVED AND REPLACED. COMPRESSOR HEADS REPLACED AND TESTED OK.'.
**11.03.1992** Service defect: 'B - EXHAUST - SHORT EXHAUST CONNECTION REPLACED.'.
**11.03.1992** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - INDEPENDENT REL.VALVE CHANGED OK.'.
**11.03.1992** Service defect: 'B - OTHER BODY REPAIRS - D/SIDE DOOR CATCH REPAIRED.F/MANS SIDE WINDOW REPAIRED.'.
**19.03.1992** Service defect: 'UN - TRACTION MOTOR - NO.4 T/M CHANGED. T/M CONNECTING LUG REPLACED LOCO SIDE.A/C HOT.'.
**01.05.1992** Service defect: 'UN - EXHAUST - CRACKED SHORT EXHAUST JOINT REPLACED.OK.'.
**01.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE FAULT REPAIRED.OK.'.
**20.05.1992** Service defect: 'A - RADIATOR TO MONITOR.20/5.'.
**28.05.1992** Service defect: 'UN - DYNAMIC BRAKE - 'A' END DYN/BRAKE POT REPLACED,A/C BLOWN.DYN/BRAKE AMPLIFIERREPLACED 'A' END,A/C SUSPECT.'.
**08.07.1992** Service defect: 'UN - BAD LEAK IN RADIATORS.-TO USE LOCALLY ONLY.'.
**31.07.1992** Service defect: 'C - AUXILLARY MACHINES - FUEL PUMP REPLACED A/C EARTH FAULT.'.
**31.07.1992** Service defect: 'C - BOGIE - R1 AXLE 1/4 INCH SCORE MARK. R2 AXLE BEARING ON WICK-2/3 SCORING-'BAD'.'.
**31.07.1992** Service defect: 'C - DYNAMIC BRAKE - DYNAMIC BRAKE RHEOSTAT REPLACED A/C DYNAMIC NOT WORKING.'.
**31.07.1992** Service defect: 'C - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER BELTS REPLACED.'.
**31.07.1992** Service defect: 'C - RADIATORS STILL LEAKING.31/7/92.'.
**06.10.1992** Service defect: 'UN - CONTACTOR EP VALVES - MAGNET VALVE REPLACED.'.
**06.10.1992** Service defect: 'UN - GENERAL - W/WIPER WASHER BOTTLE FITTED.'.
**06.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYL PIPE REPAIRED.'.
**21.10.1992** Service defect: 'A - ENGINE WATER LEAK - SLIGHT WATER LEAK REPAIRED.'.
**21.10.1992** Service defect: 'A - VIGILANCE - VIGILANCE TIMING ADJUSTED.'.
**21.10.1992** Service defect: 'A - LOAD METER GLASS TO REPLACE,A/C SMASHED.21/10.'.
**23.10.1992** Service defect: 'TS - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C BINDER COMING OFF.'.
**16.11.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 3 W/SET REPLACED, ALL WICKS & AXLE JOURNALS CHECKED OK.'.
**16.11.1992** Service defect: 'UN - TRACTION MOTOR - NO 3 T/MOTOR REPLACED, A/C W/SET.'.
**25.11.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE TESTED OK.'.
**25.11.1992** Service defect: 'UN - TRACTION MOTOR - 'B' END T/MOTOR BLOWER CHANGED,COMPLETE UNIT EX 846 FITTED.'.
**11.01.1993** Service defect: 'TS - BOGIE REPAIRS - ACCIDENT - BENT BOGIE CUT OUT TEMP.REPLACED WITH BOLTS. REPINED BRAKE GEAR.CLEANED E.P.VALVE,PORTS.'.
**15.01.1993** Service defect: 'B - BOGIE MAINTENANCE - SPRINGS - 'B'END LEAF SPRINGS REPLACED INTO POCKETS.'.
**15.01.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET CONNECTOR AND BOLT REPLACED.'.
**15.01.1993** Service defect: 'B - EXHAUST - EXHAUST BELLOWS SPLIT REPAIRED.'.
**15.01.1993** Service defect: 'B - MONITOR LEAKING RIGHT BANK RADIATOR.'.
**18.02.1993** Service defect: 'TS - BOGIE - BOGIE SWAP WITH 965 COMPLETED, LOCO MOVEMENT TEST OK.'.
**23.02.1993** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED A/C TERMINAL BLOWN OFF.'.
**16.03.1993** Service defect: 'SW - GENERAL - SENT TO ISLINGTON FOR PAINTING.'.
**07.04.1993** Service defect: 'A - ELECT. MISC. - GAUGES & INSTRUMENTS - LOADMETER CHANGED,A/C SHATTERED FACE.'.
**07.04.1993** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - LOW WATER SWITCH WIRING REPAIRED.'.
**07.04.1993** Service defect: 'A - OVERSPEED OPERATION - OVERSPEED ADJUSTED,A/C TOO LOW.'.
**13.07.1993** Service defect: 'E - ELECTRICAL MISCELLANEOUS - CRANKCASE EXHAUSTER CIRCUIT BREAKER REPLACED.'.
**13.07.1993** Service defect: 'E - MAIN GENERATOR BRUSHES - 1 BRUSH CHANGED ON M/GEN,A/C SPLATTER ON PIGTAILS.'.
**13.07.1993** Service defect: 'E - OTHER BODY REPAIRS - ALL SLIDING WINDOWS LUBRICATED.'.
**12.10.1993** Service defect: 'A - BATTERY MAINTENANCE - ONE BATTERY CHANGED A/C TERMINAL BLOWN.'.
**12.10.1993** Service defect: 'A - DYNAMIC BRAKE - 'B'END DYNAMIC BRAKE POT REPLACED.'.
**12.01.1994** Service defect: 'B - RADIATOR/PRESSURISING FAN - R1 CONTACTOR RE-WIRED CORRECTLY, A/C LOW SPEED FAN WOULD NOTOPERATE. FANS TESTED OK.'.
**21.03.1994** Service defect: 'UN - ENGINE

TURBOCHARGER/SUPERCHARGER - TURBO AIR SUPPLY REPAIRED, A/C FAULTY FITTING.'.

**21.03.1994** Service defect: 'UN - GENERAL - HAND BRAKE CHAIN REPLACED, A/C BROKEN LINKS IN CHAIN.'.

**21.03.1994** Service defect: 'UN - GENERAL LOSS OF POWER - REVS BUT NO POWER. SHUNT REPLACED ON BKT CONTACTOR, A/C BROKEN OFF.'.

**21.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DISCHARGE PIPE REPLACED, A/C LEAKING.'.

**31.03.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - LOOSE HEATER ELEMENT D/S 'A'END REPAIRED.'.

**31.03.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R1 SANDER REPAIRED, A/C NO AIR.'.

**18.06.1994** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - 'B'COUPLER CHECKED OK, A/C CRACKED.'.

**18.06.1994** Service defect: 'C - OTHER BODY REPAIRS - 'B'END WINDOW REPLACED.'.

**18.06.1994** Service defect: 'C - TOP BRUSH HOLDER NO 4 T/MOTOR TO CHANGE.18/6.'.

**962**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**963**

Details: locomotive '963 A' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $237480
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 07.02.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 27.03.1995 | | |
| Last Lift: | 11.11.1992 | | |
| SW Service Mileage: | 1035751 KM | SW Service Date: | 03.02.1995 |
| A Service Mileage: | 1029694 KM | A Service Date: | 18.10.1994 |
| B Service Mileage: | 1006169 KM | B Service Date: | 13.04.1994 |
| C Service Mileage: | 1035312 KM | C Service Date: | 31.01.1995 |
| D Service Mileage: | 653814 KM | D Service Date: | 24.11.1989 |
| E Service Mileage: | 397024 KM | A Service Date: | 31.10.1987 |
| F Service Mileage: | 877619 KM | A Service Date: | 11.11.1992 |
| WT Service Mileage: | 966790 KM | WT Service Date: | 28.09.1993 |
| US Service Mileage: | 1034399 KM | A Service Date: | 22.11.1994 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**01.08.1989** Service defect: 'UN - DYNAMIC BRAKE - 'B'END D/BRAKE POTENTIOMETER REPLACED.'.

**09.08.1989** Service defect: 'UN - GENERAL - ALL SEALS ON E/ROOM & CAB DOORS REPLACED.'.

**22.08.1989** Service defect: 'A - GENERAL - ALL ELECTRICAL CABINET DOOR SEALS REPLACED.'.

**28.09.1989** Service defect: 'UN - BROKEN PIPE - MAIN RES.FLEXABLE DISCHARGE HOSE REPLACED.28/9'.

**24.10.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED WEAK.HOT LUG ON LOADMETER SHUNT.VOLTS RECHECKED 3-37V.'.

**26.10.1989** Service defect: 'TS - DYNAMIC BRAKE - D/BRAKE BOOKED AS WEAK,VOLTAGE FIELD CURRENT CHECKED. 2.6V-37V.'.

**26.10.1989** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - HP DISCHARGE VALVE RENEWED.'.

**28.10.1989** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - DYNAMIC POT.REPLACED A/C BURNT OUT.DB VOLTS 2.6-38V.28/10.'.

**07.11.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED WEAK.CHECKED,3V-36V.'.

**24.11.1989** Service defect: 'D - COOLING SYSTEM - VICTAULIC TO RADIATOR CHANGED.'.

**24.11.1989** Service defect: 'D - EXHAUST - L3 EXHAUST BOLTS TIGHTENED.'.

**24.11.1989** Service defect: 'D - FUEL SYSTEM - L2 FUEL BUS RAIL TIGHTENED A/C LEAKING.'.

**24.11.1989** Service defect: 'D - MECHANICAL EQUIPMENT COMPRESSOR - D/S LOW PRESSURE DELIVERY VALVE ON COMPRESSOR CHANGED A/C BROKEN SPRING.'.

**08.12.1989** Service defect: 'SW - DYNAMIC BRAKE - ASBESTOS GRIDS EXCHANGED FOR NON ASBESTOS'.

**16.01.1990** Service defect: 'UN - BOGIE - 'B'END SIDE BEARER CLEARANCES ADJUSTED.'.

**03.02.1990** Service defect: 'UN - DYNAMIC BRAKE - RHEOSTAT REPLACED.'.

**07.02.1990** Service defect: 'TS - TRACTION MOTOR - NO3 TM CHANGED A/C PINION END BEARING.(IN 170 OUT C54).'.

**11.02.1990** Service defect: 'UN - COOLING SYSTEM - HOSE UNDER TURBO CHANGED A/C BLOWN OUT.'.

**15.02.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT CIRCUIT BREAKER REPLACED.'.

**16.02.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN WASHED.'.

**21.03.1990** Service defect: 'UN - DYNAMIC BRAKE - 'A'END D/BRAKE POTENTIOMETER A/C BURNT OUT.'.

**30.03.1990** Service defect: 'TS - BOGIE - 'B'END BOGIE CHANGED AT TAILEM BEND 28/3.A/C FLAT WHEELS.'.

**30.03.1990** Service defect: 'TS - TRACTION MOTOR - NOS 4,5,6 TRACTION MOTORS CHANGED AT TAILEM BEND.(IN 13,C19,66 OUT C7,74,C47.)'.

**11.04.1990** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C FLASH.'.

**11.04.1990** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 3 TM V RING,INSULATORS CLEANED.P-500K.'.

**20.04.1990** Service defect: 'WT - BRAKES TO ADJUST'.

**06.05.1990** Service defect: 'TS - COOLING SYSTEM - FLEXIBLE HOSE TO TURBO REPLACED A/C SPLIT.'.

**09.05.1990** Service defect: 'UN - GENERAL -

'A'DOOR,WINDOW,CABINET SEALS REPAIRED.ARM RESTS & OBSERVERS MIRROR REPLACED.ENGINE DOOR LOCKS REPAIRED.'.

**09.05.1990** Service defect: 'UN - OTHER BODY REPAIRS - NOSE DOOR FLASHING REPAIRED.'.

**17.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CRACK TESTED,OK.'.

**22.05.1990** Service defect: 'UN - TRACTION MOTOR - NO3 TM CHANGED A/C BLOWN COMM SEGMENTS.(IN 117 OUT 170).'.

**06.06.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - SANDER MAGNET VALVE REPLACED A/C EARTH.'.

**22.06.1990** Service defect: 'UN - BOGIE - 'B'BOGIE SIDE BEARER ADJUSTED.'.

**17.07.1990** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO6 WHEELSET CHANGED A/C DOWN TO GAUGE.'.

**17.07.1990** Service defect: 'TS - TRACTION MOTOR - NO4 TM CHANGED A/C EARTH(IN 142 OUT 13)'.

**26.07.1990** Service defect: 'UN - RADIO REPAIR - CELLULAR TELEPHONE INSTALLED.'.

**06.08.1990** Service defect: 'A - EARTH FAULT MISCELLANEOUS - BOOKED FOR EARTH FAULT.DUE TO MOISTURE,DRIED OUT,CHECKED OK.'.

**20.10.1990** Service defect: 'UN - BOGIE - 'B'BOGIE CHANGED.'.

**20.10.1990** Service defect: 'UN - TRACTION MOTOR - 'B'END TM'S CHANGED.'.

**20.10.1990** Service defect: 'UN - SENT TO W.T.M.'.

**07.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L4,L5,L6,R6 WICKS & OILS REPLACED A/C DIRTY.'.

**19.11.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO4 & 6 WHEELSETS CHANGED.'.

**06.12.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - LIGHT FLASH DETECTED ON MAIN GEN, CLEANED.'.

**18.01.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - GROUND RELAYS IN DYNAMIC BRAKE - TESTED , UNABLE TO FAULT.'.

**18.01.1991** Service defect: 'UN - NO .2 WEAR PLATE TO WELD'.

**18.01.1991** Service defect: 'UN - EXHAUST JOINTS TO CHECK'.

**12.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS PROFILED A/C SMALL'.

**12.02.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO4 TM REPLACED A/C INTERPOLES DOWN TO EARTH'.

**04.03.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - TO W.T.M.A/C L4 WHEEL LARGE FLAT.'.

**05.03.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - 'B'END HEADLIGHT SWITCH REPLACED, CHECKED OK.'.

**22.03.1991** Service defect: 'A - FUEL SYSTEM INJECTORS - INJECTORS INSTALLED.'.

**22.03.1991** Service defect: 'A - TRACTION MOTOR SUSPENSION BEARING - NO5 T/M SUPPORT BEARINGS REPLACED.'.

**23.04.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - WHEELS MAGNAFLUXED FOR CRACKS,OK.'.

**18.05.1991** Service defect: 'TS - BOGIE - BOGIES CHANGED WITH 964,A/C FLATS.'.

**18.05.1991** Service defect: 'TS - FUEL SYSTEM INJECTORS - INJECTORS CHANGED.'.

**19.07.1991** Service defect: 'UN - BOGIE - BOGIES FITTED EX 960.'.

**19.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - 'B'END INDEP BRAKE VALVE REPLACED, A/C LEAKING.BOTH ENDS CHECK OK.EMERGENCY VALVE REPAIRED & AIRBRAKE TESTED OK.'.

**19.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - A7BL BRAKE MOD COMPLETED,A/C AUTO BRAKE FAULTY.'.

**24.07.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - 'O' RING REPLACED AT TOP OF TURBO OIL FEED, A/C WATER LEAK.'.

**24.07.1991** Service defect: 'UN - GENERAL - 'B'END CAB FLOOR REPLACED.'.

**07.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - NEW EDDY CURRENT CLUTCH & DRUM FITTED, A/C U/S.'.

**07.08.1991** Service defect: 'UN - GASKET ON HEAT EXCHANGER TO REPLACE, A/C U/S.7/8.'.

**01.10.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL REPAIRED.'.

**18.10.1991** Service defect: 'C - ELECT. MISC. - GAUGES & INSTRUMENTS - L.T. EARTH REPAIRED ON LIGHT IN LOADMETER,A/C WIRE TO FRAME.'.

**18.10.1991** Service defect: 'C - ENGINE WATER LEAK - PIPE FITTING ABOVE BANK OF FIVE REPAIRED,A/C WATER LEAK.'.

**18.10.1991** Service defect: 'C - FUEL SYSTEM INJECTORS - INJECTORS CHANGED,A/C EXCESSIVE SMOKE FROM STACK.'.

**21.10.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 1 T/MOTOR TOP COVER MISSING,REPLACED,A/C FLASHOVER.'.

**24.10.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - V- RING RISERS & COMM CLEANED ON M/GEN & T/M'S,A/C GR'S.'.

**30.12.1991** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDO LIGHT TOO DULL.-CHECKED OK.'.

**30.12.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - THREE T/M BLOWER BELTS REPLACED.-BLOWER MOTOR REALIGNED.'.

**07.01.1992** Service defect: 'UN - COOLING SYSTEM - COOLANT WATER CHANGED.'.

**07.01.1992** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.

**07.01.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - T/M BLOWER BELTS REPLACED.HOUSING REPAIRED.'.

**20.02.1992** Service defect: 'A - GENERAL - OBS.SIDE SEAT CHANGED.'.

**20.02.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'BREAK PIPE HOSE REPLACED +DUMMY COUPLING.'.

**20.02.1992** Service defect: 'A - SHORT BELLOWS FOR EXHAUST REQUIRED.21/2.'.

**03.04.1992** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED.'.

**11.05.1992** Service defect: 'UN - EXHAUST - LONG EXHAUST CONNECTOR REPLACED,A/C BLOWN.SHORT

EXHAUST CONNECTOR REPLACED EX 965,A/C BLOWN.'.

**11.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - L.P. VALVE REPAIRED ON COMPRESSOR.'.

**11.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE COCK REPLACED.'.

**21.05.1992** Service defect: 'B - MAIN GENERATOR - MAIN GENERATOR BRUSHED OUT & PAINTED,A/C DIRTY.'.

**21.07.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - L3 AND R5 GASKETS REPLACED A/C WATER LEAKS.'.

**31.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END MAIN RESEVOIR AND TRAIN PIPE HOSES REPLACED. NO.3&4 CONTROL PIPE STRAIGHTENED.'.

**14.08.1992** Service defect: 'A - EXHAUST - R1, L3, AND L4 EXHAUST LEAKS REPAIRED.'.

**14.08.1992** Service defect: 'A - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN GEAR-BOX LUBED A/C NOISEY.'.

**29.08.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED A/C LIGHTS FLUCTUATING.'.

**17.09.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO.3 TRANSITION CAN REPLACED A/C TRANSITIONS LOWER THAN NORMAL.'.

**21.09.1992** Service defect: 'UN - MAIN GENERATOR - MAIN/GEN CLEAN UP - RISERS BRUSHED OUT, V-RING PAINTED.ALL BRUSH HOLDERS CHECKED OK A/C GR'S.'.

**21.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'KNUCKLE REPLACED + SPARE REPLACED.'.

**21.09.1992** Service defect: 'UN - TRACTION MOTOR - NO 6 T/MOTOR CLEANED UP, A/C GR'S.'.

**21.09.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO 5 T/M TOP B/HOLDER REPLACED.'.

**24.09.1992** Service defect: 'TS - MAIN GENERATOR - MAIN GEN BRUSHED & PAINTED.ALL COVERS REPLACED & MAIN GENY CURED OK.'.

**24.09.1992** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 2 T/M CLEANED & PAINTED,A/C FLASHOVER.'.

**04.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 'A'END CAB LIGHTS REPAIRED.'.

**10.10.1992** Service defect: 'UN - TRACTION MOTOR - NO 2 T/MOTOR REPLACED,A/C SCORED COMMUTATOR.T/M IN- C100, T/M OUT-C92.'.

**11.11.1992** Service defect: 'F - EXHAUST - L4 EXHAUST LEAK REPAIRED.'.

**11.11.1992** Service defect: 'F - MAIN GENERATOR - 10 MAIN GEN BRUSHES CHANGED.'.

**07.12.1992** Service defect: 'UN - EXHAUST LEAKS.7/12.'.

**13.01.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO4 WHEEL SET REMOVED T/MOTOR STRIPED NEW WHEELS APPLIED. ASSEMBLED REFITTED TO LOCO.'.

**05.02.1993** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR FAN SWITCH REPAIRED.'.

**05.02.1993** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - ECI RELAY CHANGED, A/C BROKEN COIL WIRE.'.

**03.05.1993** Service defect: 'A - CONTACTOR EP VALVES - MAGNET VALVE REPLACED.'.

**03.05.1993** Service defect: 'A - GENERAL - BOTH SLIDING WINDOWS RESEALED,RUBBER REPLACED. LOWER CUBICLEDOORS RESEALED.'.

**03.05.1993** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDENT RELEASE VALVE REPLACED.'.

**03.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - YOKE & PACKAGE REPLACED 'B'END.'.

**05.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRRESSOR CHECKED OK.'.

**05.05.1993** Service defect: 'UN - COMPRESSOR GOV TO ADJUST,SENT OUT ON CONTROL.TO BE'.

**05.05.1993** Service defect: 'UN - REPAIRED ON RETURN.5/5.'.

**07.05.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMP GOV MAGNET VALVE REPLACED, A/C COMP O/CHARGING. COMP GOVERNOR ADJUSTED & SET TO 125PSI.'.

**20.05.1993** Service defect: 'UN - LUBRICATING SYSTEM - HEAT EXCHANGER RUBBER JOINT REPLACED,A/C LEAKING..'.

**09.06.1993** Service defect: 'UN - EXHAUST - EXHAUST LEAKS REPAIRED.'.

**09.06.1993** Service defect: 'UN - GENERAL - CAB SEALS REPLACED. LOCO RUN UP OK.'.

**17.07.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY RESISTOR REPLACED.'.

**17.07.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED,WIRING REPAIRED.'.

**12.08.1993** Service defect: 'UN - TRACTION MOTOR - BLOWER BELTS REPLACED, TESTED OK. LOCO SENT TO TRAFFIC.'.

**06.09.1993** Service defect: 'UN - GENERAL - ALL LOG BOOK REPS COMPLETED.'.

**06.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP SAFETY VALVE BLOWING OFF - COMP HIGH PRESSURE VALVES REMOVED & CLEANED, LARGE QUANTITY OF CARBON REMOVED. NEW'.

**25.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST COMPLETED, LOCO SENT TO W.T.M.'.

**14.10.1993** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO.6 T/M HAD SLIGHT FLASHOVER. CLEANED UP MOTOR AND REPLACED BRUSHES. ALL OTHER T/M'S CHECKED OK.'.

**18.10.1993** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES - ONE BATTERY CHANGED, A/C U/S, LOCO STARTED OK.'.

**27.10.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - CRANKCASE EXHAUSTER REPLACED, A/C SEIZED & TRIPPING BREAKER.'.

**27.10.1993** Service defect: 'C - FUEL PUMP MOTOR - FUEL PUMP MOTOR REPLACED.'.

**27.10.1993** Service defect: 'C - FUEL SYSTEM PUMP - L3 FUEL PUMP REPLACED.'.

**27.10.1993** Service defect: 'C - MAIN GENERATOR BRUSHES - 9 BRUSHES CHANGED ON MAIN GEN.'.

**18.01.1994** Service defect: 'UN - INSULATION WORN - G/R'S IN DYNAMIC. 'FF'CABLE ON NO.6 T/M HAD RUBBED THRU TO FRAME. REPAIRED. D/BRAKE GRIDS OK. LOCO MEGGERED OK.'.

**29.01.1994** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - NO 2 T/MOTOR REPLACED, A/C BEARING FAILURE.'.
**30.03.1994** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP INSTALLED AND VICTAULIC REPLACED. TURBO WATER HOSE REPLACED. LOCO STARTED, INSPECTION OK, NO WATER LEAKS.'.
**30.03.1994** Service defect: 'UN - TRACTION MOTOR - T/MOTOR REPLACED.'.
**13.04.1994** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1 WICK AND OIL CHANGED.'.
**13.04.1994** Service defect: 'B - COOLING SYSTEM - D/S WATER VICTAULIC FROM RADIATOR REPLACED. R5 WATER RAIL GASKET TO CHANGE.'.
**13.04.1994** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - LOW WATER SWITCH REPAIRED.'.
**13.04.1994** Service defect: 'B - ENGINE - MARMON AND VICTAULIC RUBBERS REPLACED RHS 'B'END OF MOTOR.'.
**13.04.1994** Service defect: 'B - LUBRICATING SYSTEM - TOP OIL VICTAULIC ON HEAT EXCHANGER REPLACED.'.
**13.04.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - NO 4 T/M HAD NO PIG TAIL BOLTS IN TOP TWO BRUSH HOLDERS - RECONNECTED.'.
**13.04.1994** Service defect: 'B - VIGILANCE - VIG REPAIRED, A/C NO AIR PRESSURE.'.
**13.04.1994** Service defect: 'B - NO 3 T/M TO MONITOR, A/C GROOVES ON COMM 180DEGS'.
**13.04.1994** Service defect: 'B - APART.13/4.'.
**20.04.1994** Service defect: 'UN - EXHAUST - EXHAUST JOINTS TIGHTENED, GASKETS REPLACED AS REQUIRED.'.
**27.04.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKING AROUND BANK OF FIVE - ENGINE AREA CLEANED, PLUGSRETIGHTENED. LOCO SENT BACK INTO TRAFFIC.'.

**964**

Details: locomotive '964 J' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $237480
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 13.03.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 12.02.94
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 21.05.1991 | | |
| Last Lift: | 04.03.1982 | | |
| SW Service Mileage: | 827057 KM | SW Service Date: | 07.12.1989 |
| A Service Mileage: | 885768 KM | A Service Date: | 13.10.1990 |
| B Service Mileage: | 862705 KM | B Service Date: | 22.06.1990 |
| C Service Mileage: | 916964 KM | C Service Date: | 11.03.1991 |
| D Service Mileage: | 609914 KM | D Service Date: | 09.03.1988 |
| WT Service Mileage: | 718019 KM | WT Service Date: | 24.01.1989 |
| US Service Mileage: | 933017 KM | A Service Date: | 21.05.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**20.07.1989** Service defect: 'UN - AUXILLARY MACHINES - REAR TRACTION MOTOR BLOWER BEARINGS REPLACED.'.
**20.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - NEW SET OF BATTERIES FITTED.(6169-6176)'.
**20.07.1989** Service defect: 'UN - EXHAUST - RH BOTTOM EXHAUST CONNECTOR REPLACED A/C CRACKED.'.
**27.07.1989** Service defect: 'UN - ENGINE GOVERNOR - FUEL RACKS REDUCED TO 29 ML FROM 32 PLUS'.
**15.08.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - ALL WICKS & OILS REPLACED.'.
**15.08.1989** Service defect: 'SW - GENERAL - WATER COOLER REMOVED & HOLED SEALED.'.
**24.08.1989** Service defect: 'UN - DYNAMIC BRAKE - GROUND RELAY IN D/BRAKE.FLASH IN MAIN GEN CLEANED.RADIATOR WATER IN NO5 TM CLEANED & DRIED.'.
**24.08.1989** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - HOT LUG ON MOTORING REVERSER REPAIRED.'.
**07.09.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.CHECKED IN DEPOT.'.
**14.09.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED LOW POWER.CHECKED ELEC.OK.2 MLS.OF FUEL ADDED A/C 300HP LOW'.
**27.09.1989** Service defect: 'UN - CONTACTOR EP VALVES - EP VALVE ON S31 REPLACED A/C NO DYNAMIC.'.
**27.09.1989** Service defect: 'UN - HOT LUGS ON FIELD SHUNTS.'.
**24.10.1989** Service defect: 'UN - BOGIE - BOGIES CHANGED TO BROARD GAUGE.'.
**24.10.1989** Service defect: 'UN - TRACTION MOTOR - TM'S FITTED (C99,6,36,C85,S2,C3.).'.
**07.11.1989** Service defect: 'UN - FUEL SYSTEM PUMP - R3 FUEL PUMP REPLACED A/C STUCK.'.
**07.11.1989** Service defect: 'UN - GENERAL - F/MANS SIDE WINDOW REPLACED.'.
**14.11.1989** Service defect: 'TS - BOGIE MAINTENANCE - WICKS - R6,L6 WICKS RENEWED.'.
**14.11.1989** Service defect: 'TS - ENGINE GOVERNOR - GOVERNOR CHANGED.'.
**16.11.1989** Service defect: 'UN - VIGILANCE - VIGILANCE BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**07.12.1989** Service defect: 'SW - ELECT - RECEPTACLES/INTER CAR COUPLINGS - LOWER JUMPER RECEPTICAL'A'END REPLACED.'.
**13.01.1990** Service defect: 'UN - E.P. VALVE REQUIRED'.
**15.02.1990** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT CIRCUIT BREAKER BOOKED FAULTY.PROBLEM ON 963.'.
**08.03.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.CHECKED,WORKING OK

IN DEPOT.'.
**10.03.1990** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - MERCOR VOLTAGE REGULATOR REPLACED A/C NOT CUTTING IN.'.
**10.03.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CK1,CK2 ARC SHUTES REPLACED.'.
**28.03.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - AUX ON P22 REPAIRED.REPAIRED AT TB ON 27/3.'.
**03.04.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - SLIGHT FLASH ON MAIN GEN CLEANED.'.
**03.04.1990** Service defect: 'UN - TRACTION MOTOR - NO1 TM CHANGED A/C THROWING SOLDER.(IN C84 OUT C99).'.
**03.04.1990** Service defect: 'UN - NO 1 WICK INSP.3/4 RN'.
**05.04.1990** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - 2 EP VALVES CHANGED.P2 AUX CONTACTS REPAIRED.TRANSITION SET UP.'.
**10.04.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - AUX CONTACTS ON S1 REPAIRED.'.
**10.06.1990** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR TORCHING.CHECKED NO FAULT FOUND.'.
**28.06.1990** Service defect: 'TS - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED.FAN DRIVE GEARBOX REPLACED.'.
**01.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE VALVE CHANGED A/C LEAKING.'.
**05.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT VALVE-HANDLE & IND RELEASE VALVE CHANGED.'.
**26.02.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE POT REPLACED.DYN/BRAKE CHECKED OK.'.
**01.03.1991** Service defect: 'TS - ENGINE WATER LEAK - LARGE WATER HOSE TO TURBO REPLACED,A/C LEAK. SMALL HOSE FROMRAD TO TURBO REPLACED,A/C BROKEN. L1 WATER RAIL JOINT'.
**11.03.1991** Service defect: 'C - EXHAUST - EXHAUSTS GASKETS REPLACED.'.
**26.03.1991** Service defect: 'UN - BLOCKED FILTERS - TURBO FILTERS CHANGED.'.
**26.03.1991** Service defect: 'UN - GENERAL - CAB DOOR SEALS RENEWED. OBSERVERS SEAT TIGHTENED.'.
**03.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 70LB FEED VALVE REPLACED 'B'END.'.
**17.04.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING REPAIRED TO BCP LIGHT,A/C NOT WORKING.'.

**965**

Details: locomotive '965 S' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $237480
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 02.05.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** W/O 29.08.92;SCRAPPED 28.07.94
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 13.03.1992 | | |
| Last Lift: | 02.10.1980 | | |
| SW Service Mileage: | 666768 KM | SW Service Date: | 25.07.1990 |
| A Service Mileage: | 675180 KM | A Service Date: | 04.11.1991 |
| B Service Mileage: | 694322 KM | B Service Date: | 17.02.1992 |
| C Service Mileage: | 657755 KM | C Service Date: | 26.06.1991 |
| D Service Mileage: | 602354 KM | D Service Date: | 29.08.1990 |
| E Service Mileage: | 120123 KM | A Service Date: | 11.06.1987 |
| US Service Mileage: | 682290 KM | A Service Date: | 12.12.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**31.07.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - BOOKED FOR WHEELSLIP AT TRANSITION.CHECKED IN DEPOT UNABLE TO FAULT.'.
**03.08.1989** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BRAKE CONTACTS LUBRICATED A/C STICKY.'.
**10.08.1989** Service defect: 'UN - ENGINE - MISSING BIG END SPLIT PINS REPLACED.'.
**10.08.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN WASHED OUT A/C FLASHOVER.'.
**10.08.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - ONE BRUSH CHANGED ON NO 1 TM A/C FLASHOVER.'.
**06.09.1989** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L2,R2,R3,L4,R4 WICKS REPLACED.'.
**07.09.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - FLASH DETECTED ON REVERSER,2 CABLES REPLACED.P-60K.'.
**23.11.1989** Service defect: 'SW - COOLING SYSTEM - RADIATOR SCREENS FITTED'.
**23.11.1989** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC BRAKE CONTRACTOR MODIFIED'.
**23.11.1989** Service defect: 'SW - ENGINE LINER - NEW LINER SEALS FITTED R1,R4,L3,L5'.
**23.11.1989** Service defect: 'SW - FUEL SYSTEM - FUEL RACKS INCREASED TO 32MM'.
**23.11.1989** Service defect: 'SW - GENERAL - ALL SEALS ON DOORS AND WINDOWS REPLACED AS REQUIRED * CABS REPAINTED * MODS M156AD 132 COMPLETED'.
**23.11.1989** Service defect: 'SW - VIGILANCE - ELECTRICAL VIGILANCE FITTED'.
**09.01.1990** Service defect: 'SW - ENGINE WATER LEAK - COLD WATER LEAK CHECKED OK IN DEPOT.'.
**10.01.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MG FLASHED,CLEANED COM, V RING & INSULATORS.'.
**03.02.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER FREED A/C NO POWER IN REVERSE.'.
**03.02.1990** Service defect: 'UN - ENGINE - BOOKED FOR VIBRATION ABOVE NOTCH 6.ENGINE MOUNTING

BOLTS & GEN BOLTS CHECKED OK.'.
**16.02.1990** Service defect: 'TS - TRACTION MOTOR - NO5 TM CHANGED A/C EARTH ON ARMATURE (IN 77 OUT 123).'.
**01.03.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - 5 FIELD SHUNT CABLES REPLACED.'.
**13.03.1990** Service defect: 'UN - VIGILANCE - VIGILANCE BOOKED NOT WORKING.MADE WORKABLE,SUSPECT FAULTY RELAY.'.
**29.03.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - TOP JUMPER SOCKETS BOOKED FAULTY.CHECKED OK.'.
**29.03.1990** Service defect: 'UN - VIGILANCE - REPLACED 2 RELAYS ON VIG BOARD IN NOSE A/C VIG WOULD NOT RESET.'.
**04.04.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED WEAK.TESTED IN DEPOT,TO BE SET UP.'.
**06.04.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE SET UP.'.
**20.04.1990** Service defect: 'TS - MAIN GENERATOR - M/G SLIGHT FLASH, CLEANED COMM & VEE RING T/M NO6 FLASHED CLEANED.A/C 3 G/RELAYS.'.
**20.04.1990** Service defect: 'TS - T/M NO1 THROWING SOLDER-TO MONITOR.'.
**26.04.1990** Service defect: 'UN - TRACTION MOTOR - NO 1 TM CHANGED A/C THROWING SOLDER.(IN 15 OUT 243).'.
**25.07.1990** Service defect: 'SW - ENGINE - ENGINE EX 603 FITTED'.
**25.07.1990** Service defect: 'SW - MAIN GENERATOR - MAIN GENERATOR REPLACED A/C EARTH ON INTERPOLES.(UNIT EX 603'.
**04.08.1990** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED.'.
**17.10.1990** Service defect: 'TS - TRACTION MOTOR - NO4 TM CHANGED A/C BURNT COMM BAR.(IN 161 OUT C45).'.
**18.01.1991** Service defect: 'UN - AUXILLARY MACHINES - REAR T/MOTOR BLOWER HOUSING REWELDED.'.
**12.02.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE REPLACED,A/C OVERCHARGING.'.
**12.02.1991** Service defect: 'A - VIGILANCE - PILOT AIR VALVE SEALS REPLACED'.
**12.02.1991** Service defect: 'A - 'B'KNUCKLE TO CHANGE'.
**05.03.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CLEANED & CHARGING OK.'.
**12.03.1991** Service defect: 'UN - BATTERY MAINTENANCE - 1 BATTERY REPLACED,LOCO STARTED,BATT CHARGE CHECKED OK.'.
**13.05.1991** Service defect: 'UN - AUXILLARY MACHINES - CRANKCASE EXHAUSTER REPLACED,A/C CRANKCASE EXPLOSION.'.
**26.06.1991** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - WIRING TO COILS ON DMR & BKR2 REPAIRED.FPC COIL TESTED OK. WIRING TO PANEL & RESISTORS NEXT TO VR REPAIRED.'.
**13.08.1991** Service defect: 'TS - GENERAL - ALL CAB REPS COMPLETED.'.
**13.08.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - COUPLING THROAT PLATES WELDED.'.
**17.09.1991** Service defect: 'UN - BATTERY MAINTENANCE - REPLACED BATTERY,A/C OPEN CELL.'.
**17.09.1991** Service defect: 'UN - MAIN GENERATOR - CLEANED INSULATORS,RISERS,COMM & V RING OF MAIN GEN,A/C COPPER DRAG.'.
**23.09.1991** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED UP,2 BRUSHES REPLACED, A/C FLASHOVERS BOTTOM LEFT SIDE.'.
**01.10.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS'.
**04.11.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 3 WICKS REPLACED.'.
**04.11.1991** Service defect: 'A - EARTH FAULT MISCELLANEOUS - ATTENTION BUZZER CHANGED. A/C SHORTED TO GROUND.'.
**04.11.1991** Service defect: 'A - ENGINE WATER LEAK - WATER LEAKS REPAIRED.'.
**04.11.1991** Service defect: 'A - EXHAUST - EXHAUST LEAKS REPAIRED.'.
**04.11.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - MAGNET VALVE REPLACED. A/C L6 & R6 SANDERS NOT WORKING.'.
**04.11.1991** Service defect: 'A - BOLSTER TO CHANGE.'.
**05.11.1991** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - 'B' END BOLSTER REPLACED. A/C CRACKED.'.
**05.11.1991** Service defect: 'UN - TRACTION MOTOR - NO.4 T/M WASHED.A/C OILY.'.
**05.11.1991** Service defect: 'UN - NO.4 T/M TO MONITOR A/C LOW MEGGER READING.'.
**28.11.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE POT REPLACED.'.
**12.12.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATT CHARGE CHECKED,ADJUSTED TO 71.6U.'.
**12.12.1991** Service defect: 'UN - DYNAMIC BRAKE - D/B SET UP CHECKED & ADJUSTED OK.'.
**12.12.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - INTERCOOLER COVER TIGHTENED.'.
**12.12.1991** Service defect: 'UN - FUEL SYSTEM LINES - R2 H.P. FUEL PIPE REPLACED,A/C LEAKING.'.
**12.12.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DISCHARGE PIPE TIGHTENED.'.
**22.01.1992** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES REPLACED.'.
**13.03.1992** Service defect: 'TS - GENERAL - STORED.'.

**966**

Details: locomotive '966 E' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 16.7m
**Tare Weight:** 105.9tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $237480
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-9
**Date Built:** 27.06.1967
**Operating System:** AN
**Intended Use:** MAINLINE

**Installed Power:** 1300kw
**Remarks:** W/O 12.02.94
**BSG Code:** LBAM

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 19.08.1991 | | |
| Last Lift: | 18.10.1985 | | |
| SW Service Mileage: | 348983 KM | SW Service Date: | 02.11.1990 |
| A Service Mileage: | 392561 KM | A Service Date: | 23.07.1991 |
| B Service Mileage: | 367891 KM | B Service Date: | 13.03.1991 |
| C Service Mileage: | 327860 KM | C Service Date: | 27.06.1990 |
| D Service Mileage: | 194847 KM | D Service Date: | 23.08.1988 |
| WT Service Mileage: | 354811 KM | WT Service Date: | 16.01.1991 |
| US Service Mileage: | 393876 KM | A Service Date: | 01.08.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**14.07.1989** Service defect: 'SW - DYNAMIC BRAKE - D/BRAKE MODIFICATIONS COMPLETED.'.
**24.07.1989** Service defect: 'UN - MAIN GENERATOR - MAIN GEN VEED OUT.'.
**16.08.1989** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL TRANSFER PUMP CHANGED A/C EARTHED.'.
**21.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS BOOKED FOR FLATS.CHECKED.'.
**01.09.1989** Service defect: 'WT - NO. 1 WHEEL TURNED ONLY A/C FLATS.'.
**13.09.1989** Service defect: 'UN - GENERAL - CAB & E/ROOM DOOR SEALS REPLACED.'.
**16.11.1989** Service defect: 'UN - AUXILLARY MACHINES - 'B'END TM BLOWER BELTS REPLACED.'.
**16.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L1,L3,L5,R1,R3,R5,R6 WICKS REPLACED.'.
**16.11.1989** Service defect: 'UN - EXHAUST - LH BOTTOM EXHAUST CONNECTOR REPAIRED.'.
**24.11.1989** Service defect: 'B - -
**24.11.1989** Service defect: 'B - WHEELSLIP - WSCR REPLACED A/C BURNT OUT.'.
**29.11.1989** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - HOT LUG ON FS24 REPLACED.'.
**24.01.1990** Service defect: 'UN - COOLING SYSTEM - GASKETS,BRANCH PIPE,HEAD TO HEADER PIPE REPLACED.'.
**14.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACT & RETURN SPRING ON S21 REPLACED A/C BROKEN.'.
**14.02.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - M/GEN COMM CLEANED A/C SLIGHT FLASH.SEVERAL STUCK BRUSHES FREED.'.
**20.02.1990** Service defect: 'A - R.H.S.SHORT EXH.CONNECTOR TO REPLACE/FUEL PUMP'.
**20.02.1990** Service defect: 'A - BRUSHES TO REPLACE.'.
**21.02.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - INTERMEDIATE WHEEL CHANGE,NO4 & 5 WHEELS.'.
**28.03.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - STUCK BRUSHES IN M/GEN FREED.'.
**28.03.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 2 BRUSHES IN NO2 TM CHANGED CHANGED A/C PIGTAILS.P-200K.'.
**24.04.1990** Service defect: 'UN - COOLING SYSTEM - L1,L2 WATER RAIL JOINTS REPLACED.'.
**24.04.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE TANK BUS BAR REPAIRED.'.
**11.05.1990** Service defect: 'UN - BOGIE - BOTH BOGIES CHANGED.'.
**11.05.1990** Service defect: 'UN - TRACTION MOTOR - ALL TM'S CHANGED.(IN 247,C71,144,C79,C100,C48).'.
**29.05.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.
**29.05.1990** Service defect: 'UN - TRACTION MOTOR - ALL TM'S CHANGED.(IN 168,137,C83,75,S20,88).'.
**14.06.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - SLIGHT FLASH ON MAIN GEN A/C COPPER DRAG.P-200K.'.
**14.06.1990** Service defect: 'UN - NO5 TM OILING UP.14/6*'.
**19.06.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO3 (R) WICK & OIL REPLACED.'.
**19.06.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN FLASHED A/C COPPER DRAG.P-200K.'.
**19.06.1990** Service defect: 'UN - MAIN GEN TO VEE OUT*'B'END YOKE CRACKED.19/6.'.
**20.06.1990** Service defect: 'UN - MAIN GENERATOR - MAIN GEN VEED OUT & CURED.'.
**28.06.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - BOOKED FOR EARTH ON POWER.TM'S DRIED OUT,OK.P-15KOHMS.'.
**28.06.1990** Service defect: 'UN - TRACTION MOTOR - NO5 TM WASHED OUT.'.
**27.07.1990** Service defect: 'SW - 'B' PACKAGE TO BE CHANGED AT MEDD'.
**07.08.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER & PACKAGE CHANGED.'.
**07.08.1990** Service defect: 'UN - 0'.
**11.09.1990** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3 WICK REPLACED.'.
**11.09.1990** Service defect: 'TS - TRACTION MOTOR - NO 5 TM CHANGED (IN C66 OUT S20).'.
**13.09.1990** Service defect: 'UN - TRACTION MOTOR - NO 5 TM CHANGED A/C INTERNAL ELECTRICAL FAULT.(IN 32 OUT C66'.
**16.09.1990** Service defect: 'UN - DYNAMIC BRAKE - 'A'END POTENTIOMETER REPLACED.'.
**21.09.1990** Service defect: 'SW - W/SHOP INSTRUCTIONS 27,107,108,109,112,113,122,132'.
**21.09.1990** Service defect: 'SW - 137,138,156,192,212,241,245,272.DUAL HOSES.'.
**16.10.1990** Service defect: 'TS - TRACTION MOTOR - NO3 TM CHANGED A/C BURNT COMM BAR.(IN 104 OUT C83).'.
**19.10.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED WEAK.5-31VOLTS.'.
**19.10.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION ADJUSTED.'.
**02.11.1990** Service defect: 'SW - D/BRAKE TO SET UP.30/10*'.
**21.11.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN V RING,INSULATORS,COMM CLEANED A/C FLASHOVER,2 BRUSHES REPLACED.P-200K.'.
**21.11.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 2 BRUSHES REPLACED IN NO4 TM A/C PIGTAILS.'.
**08.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.5 WHEELSET CHANGE A/C FLATS'.
**15.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO-5 AXLE CHANGE'.
**06.02.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - TRAVELS ADJUSTED'.

**06.02.1991** Service defect: 'TW - OTHER BODY REPAIRS - DRIVERS 'A' END SUNVISOR REPAIRED'.
**13.03.1991** Service defect: 'B - OTHER BODY REPAIRS - DRIVERS WINDOW REPLACED.'.
**21.03.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - CONTACTOR(FUEL PUMP)REPAIRED,A/C WATER LEAK.'.
**30.05.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - MIAN GEN POSITIVE SHORTED TO MAIN GEN NEGATIVE,REPAIRED, RETAPED ALSO MAIN GEN CLEANED OUT.COMMUTATOR CLEANED UP.'.
**19.06.1991** Service defect: 'UN - CONTACTOR EP VALVES - P21 EP VALVE CHANGED,A/C AIR BLOW FROM CUBICLE WHEN POWER CONTACTS ARE PICKED UP.'.
**23.07.1991** Service defect: 'A - CONTACTOR MISCELLANEOUS - LUG REPLACED ON MOTOR/BRAKE CONTACTOR, A/C BURNT.'.
**23.07.1991** Service defect: 'A - ENGINE CYLINDER HEADS - L3 HEAD CHANGED.'.
**23.07.1991** Service defect: 'TS - MAIN GENERATOR - MAIN GEN REPS,BUSBAR FITTED,MAIN GEN CURED,BRUSHES BEDDED INA/C GR'S.'.
**01.08.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 1 T/MOTOR CLEANED & PAINTED, A/C FLASHOVER.P-200K.C-500K.'.
**01.08.1991** Service defect: 'UN - NO R2 TOP LINER SEAL TO REPAIR A/C LEAKING.1/8.'.
**19.08.1991** Service defect: 'TS - STORED.19/8.'.

**967**

Details: locomotive '967 N' in AN 'Mainland Division'.

**Owner:** PDSM
**Length Over Headstocks:** 16.7m
**Tare Weight:** 103.2tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $237920
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-8
**Date Built:** 20.12.1955
**Operating System:** PORT DOCK STATION
**Intended Use:** MAINLINE
**Installed Power:** 1300kw
**Remarks:** EX 930;W/O 16.09.89;SOLD PDSM 04.05.90
**BSG Code:** LBSO

| | | | |
|---|---|---|---|
| Return to Service Date: | 20.07.1989 | | |
| Last Lift: | 21.08.1980 | | |
| SW Service Mileage: | 508895 KM | SW Service Date: | 20.07.1989 |
| A Service Mileage: | 499521 KM | A Service Date: | 01.06.1989 |
| B Service Mileage: | 471206 KM | B Service Date: | 28.02.1989 |
| C Service Mileage: | 982296 KM | C Service Date: | 25.02.1988 |
| D Service Mileage: | 241654 KM | D Service Date: | 14.08.1987 |
| E Service Mileage: | 400004 KM | A Service Date: | 01.07.1988 |
| US Service Mileage: | 508883 KM | A Service Date: | 03.07.1989 |

**24.07.1986** Alteration complete 'RENUMBER INDIVIDUAL LOCOMOTIVES AND RAIL CARS AS LISTED. 500 TO 534, 600 TO 607, 700 TO 706, 800 TO 810, 830 TO 875, 930 TO 967 250 TO 261, 280 TO 283 & 100 TO 107 (RS4140)'.
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**03.07.1989** Service defect: 'UN - B COLLISION REPAIRS TO COMPLETE,'.
**03.07.1989** Service defect: 'UN - D/BRAKE GRIDS TO BE RENEWED.RN/3/7'.

**3801**

Details: locomotive '3801 Y' in AN 'Mainland Division'.

**Owner:** 3801 LTD
**Operator:** D
**Length Over Headstocks:** 22.4m
**Tare Weight:** 143tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** 4-6-2
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1988
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2000kw
**Remarks:** INCORRECT DATA
**BSG Code:** LSNO

**4401**

Details: locomotive '4401 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4403**

Details: locomotive '4403 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO

**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4405**

Details: locomotive '4405 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4417**

Details: locomotive '4417 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4418**

Details: locomotive '4418 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4420**

Details: locomotive '4420 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4422**

**15.04.1996** Reclassified from locomotive '4422 R' to ' locomotive 'ST 4422 H'.

**4425**

Details: locomotive '4425 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4427**

Details: locomotive '4427 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4428**

Details: locomotive '4428 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4429**

Details: locomotive '4429 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4430**

Details: locomotive '4430 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4431**

Details: locomotive '4431 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4433**

Details: locomotive '4433 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4434**

Details: locomotive '4434 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4435**

Details: locomotive '4435 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4436**

Details: locomotive '4436 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4437**

Details: locomotive '4437 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4438**

Details: locomotive '4438 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4440**

Details: locomotive '4440 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4441**

Details: locomotive '4441 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4443**

Details: locomotive '4443 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4444**

Details: locomotive '4444 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4446**

Details: locomotive '4446 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4448**

Details: locomotive '4448 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4449**

Details: locomotive '4449 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4450**

Details: locomotive '4450 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4451**

Details: locomotive '4451 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4452**

Details: locomotive '4452 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4453**

Details: locomotive '4453 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4454**

Details: locomotive '4454 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4456**

Details: locomotive '4456 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4457**

Details: locomotive '4457 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4458**

Details: locomotive '4458 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4459**

Details: locomotive '4459 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4461**

Details: locomotive '4461 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4462**

Details: locomotive '4462 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4463**

Details: locomotive '4463 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4464**

Details: locomotive '4464 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4465**

Details: locomotive '4465 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4466**

Details: locomotive '4466 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4467**

Details: locomotive '4467 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4468**

Details: locomotive '4468 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4469**

Details: locomotive '4469 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4470**

Details: locomotive '4470 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4471**

Details: locomotive '4471 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4472**

Details: locomotive '4472 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4473**

Details: locomotive '4473 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4474**

Details: locomotive '4474 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4475**

Details: locomotive '4475 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4476**

Details: locomotive '4476 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4477**

Details: locomotive '4477 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4478**

Details: locomotive '4478 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4479**

Details: locomotive '4479 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4480**

Details: locomotive '4480 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4481**

Details: locomotive '4481 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4482**

Details: locomotive '4482 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4483**

Details: locomotive '4483 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4484**

Details: locomotive '4484 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4485**

Details: locomotive '4485 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4486**

Details: locomotive '4486 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4487**

Details: locomotive '4487 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4488**

Details: locomotive '4488 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4489**

Details: locomotive '4489 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4490**

Details: locomotive '4490 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4491**

Details: locomotive '4491 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4492**

Details: locomotive '4492 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4493**

Details: locomotive '4493 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4494**

Details: locomotive '4494 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4495**

Details: locomotive '4495 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4496**

Details: locomotive '4496 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4497**

Details: locomotive '4497 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4498**

Details: locomotive '4498 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4499**

Details: locomotive '4499 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**4501**

Details: locomotive '4501 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4502**

Details: locomotive '4502 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4503**

Details: locomotive '4503 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4504**

Details: locomotive '4504 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4505**

Details: locomotive '4505 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4506**

Details: locomotive '4506 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4507**

Details: locomotive '4507 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4508**

Details: locomotive '4508 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4509**

Details: locomotive '4509 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4511**

Details: locomotive '4511 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4512**

Details: locomotive '4512 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4513**

Details: locomotive '4513 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4514**

Details: locomotive '4514 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4515**

Details: locomotive '4515 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4516**

Details: locomotive '4516 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4517**

Details: locomotive '4517 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4518**

Details: locomotive '4518 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4519**

Details: locomotive '4519 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4520**

Details: locomotive '4520 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4521**

Details: locomotive '4521 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4522**

Details: locomotive '4522 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4523**

Details: locomotive '4523 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4524**

Details: locomotive '4524 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4525**

Details: locomotive '4525 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4526**

Details: locomotive '4526 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4527**

Details: locomotive '4527 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4528**

Details: locomotive '4528 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4529**

Details: locomotive '4529 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4531**

Details: locomotive '4531 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4532**

Details: locomotive '4532 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4533**

Details: locomotive '4533 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4534**

Details: locomotive '4534 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4535**

Details: locomotive '4535 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4536**

Details: locomotive '4536 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4537**

Details: locomotive '4537 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4538**

Details: locomotive '4538 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4539**

Details: locomotive '4539 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4540**

Details: locomotive '4540 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.61m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 05.06.1962
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**4601**

Details: locomotive '4601 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4602**

Details: locomotive '4602 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4603**

Details: locomotive '4603 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4604**

Details: locomotive '4604 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4605**

Details: locomotive '4605 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4606**

Details: locomotive '4606 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4607**

Details: locomotive '4607 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4608**

Details: locomotive '4608 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4609**

Details: locomotive '4609 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4610**

Details: locomotive '4610 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4611**

Details: locomotive '4611 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4612**

Details: locomotive '4612 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4613**

Details: locomotive '4613 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4614**

Details: locomotive '4614 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4615**

Details: locomotive '4615 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4616**

Details: locomotive '4616 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4617**

Details: locomotive '4617 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4618**

Details: locomotive '4618 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4619**

Details: locomotive '4619 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4620**

Details: locomotive '4620 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4621**

Details: locomotive '4621 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4622**

Details: locomotive '4622 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4623**

Details: locomotive '4623 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4624**

Details: locomotive '4624 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4625**

Details: locomotive '4625 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4626**

Details: locomotive '4626 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4627**

Details: locomotive '4627 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4628**

Details: locomotive '4628 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4629**

Details: locomotive '4629 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4630**

Details: locomotive '4630 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4631**

Details: locomotive '4631 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4632**

Details: locomotive '4632 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4633**

Details: locomotive '4633 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4634**

Details: locomotive '4634 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4635**

Details: locomotive '4635 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4636**

Details: locomotive '4636 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4637**

Details: locomotive '4637 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4638**

Details: locomotive '4638 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4639**

Details: locomotive '4639 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4640**

Details: locomotive '4640 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 15.59m
**Tare Weight:** 114tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.06.1956
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**Wagon Width:** 2921mm
**Wagon Height:** 4420mm
**BSG Code:** LSNO

**4642**

Details: locomotive '4642 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 15.59m
**Tare Weight:** 113tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.03.1992
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2535kw
**Remarks:** ELECTRIC
**BSG Code:** LSNO

**4801**

Details: locomotive '4801 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4802**

Details: locomotive '4802 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4803**

Details: locomotive '4803 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4804**

Details: locomotive '4804 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4805**

Details: locomotive '4805 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4806**

Details: locomotive '4806 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4807**

Details: locomotive '4807 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4808**

Details: locomotive '4808 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4809**

Details: locomotive '4809 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4810**

Details: locomotive '4810 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4811**

Details: locomotive '4811 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4812**

Details: locomotive '4812 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4813**

Details: locomotive '4813 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4814**

Details: locomotive '4814 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4815**

Details: locomotive '4815 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4816**

Details: locomotive '4816 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4817**

Details: locomotive '4817 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4818**

Details: locomotive '4818 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4819**

Details: locomotive '4819 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4820**

Details: locomotive '4820 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4821**

Details: locomotive '4821 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4822**

Details: locomotive '4822 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4823**

Details: locomotive '4823 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4824**

Details: locomotive '4824 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4825**

Details: locomotive '4825 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4826**

Details: locomotive '4826 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4827**

Details: locomotive '4827 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4828**

Details: locomotive '4828 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4829**

Details: locomotive '4829 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4830**

Details: locomotive '4830 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4831**

Details: locomotive '4831 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4832**

Details: locomotive '4832 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4833**

Details: locomotive '4833 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4834**

Details: locomotive '4834 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4835**

Details: locomotive '4835 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4836**

Details: locomotive '4836 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4837**

Details: locomotive '4837 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4838**

Details: locomotive '4838 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4839**

Details: locomotive '4839 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4841**

Details: locomotive '4841 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4842**

Details: locomotive '4842 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4843**

Details: locomotive '4843 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4844**

Details: locomotive '4844 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4845**

Details: locomotive '4845 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4846**

Details: locomotive '4846 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4847**

Details: locomotive '4847 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4848**

Details: locomotive '4848 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4849**

Details: locomotive '4849 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4850**

Details: locomotive '4850 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4851**

Details: locomotive '4851 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4852**

Details: locomotive '4852 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4853**

Details: locomotive '4853 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4854**

Details: locomotive '4854 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4855**

Details: locomotive '4855 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4856**

Details: locomotive '4856 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4857**

Details: locomotive '4857 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4858**

Details: locomotive '4858 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4859**

Details: locomotive '4859 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4860**

Details: locomotive '4860 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4861**

Details: locomotive '4861 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4862**

Details: locomotive '4862 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4863**

Details: locomotive '4863 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4864**

Details: locomotive '4864 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4865**

Details: locomotive '4865 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4866**

Details: locomotive '4866 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4867**

Details: locomotive '4867 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4868**

Details: locomotive '4868 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4869**

Details: locomotive '4869 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4870**

Details: locomotive '4870 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4871**

Details: locomotive '4871 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4872**

Details: locomotive '4872 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4873**

Details: locomotive '4873 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4874**

Details: locomotive '4874 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4875**

Details: locomotive '4875 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4876**

Details: locomotive '4876 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4877**

Details: locomotive '4877 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4878**

Details: locomotive '4878 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4879**

Details: locomotive '4879 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4880**

Details: locomotive '4880 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4881**

Details: locomotive '4881 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4882**

Details: locomotive '4882 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4883**

Details: locomotive '4883 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4884**

Details: locomotive '4884 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4885**

Details: locomotive '4885 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 75tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4886**

Details: locomotive '4886 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4887**

Details: locomotive '4887 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4888**

Details: locomotive '4888 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4889**

Details: locomotive '4889 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4890**

Details: locomotive '4890 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4891**

Details: locomotive '4891 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4892**

Details: locomotive '4892 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4893**

Details: locomotive '4893 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4894**

Details: locomotive '4894 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4895**

Details: locomotive '4895 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4896**

Details: locomotive '4896 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4897**

Details: locomotive '4897 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4898**

Details: locomotive '4898 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4899**

Details: locomotive '4899 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**4901**

Details: locomotive '4901 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4902**

Details: locomotive '4902 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4903**

Details: locomotive '4903 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4904**

Details: locomotive '4904 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4905**

Details: locomotive '4905 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4906**

Details: locomotive '4906 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4907**

Details: locomotive '4907 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4908**

Details: locomotive '4908 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4909**

Details: locomotive '4909 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4910**

Details: locomotive '4910 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4911**

Details: locomotive '4911 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4912**

Details: locomotive '4912 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4913**

Details: locomotive '4913 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4914**

Details: locomotive '4914 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4915**

Details: locomotive '4915 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4916**

Details: locomotive '4916 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4917**

Details: locomotive '4917 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**4918**

Details: locomotive '4918 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 14.1m
**Tare Weight:** 81.3tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1960
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 710kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2790mm
**Wagon Height:** 4190mm
**BSG Code:** LSNO

**8001**

Details: locomotive '8001 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.02.1978
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8002**

Details: locomotive '8002 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1979
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8003**

Details: locomotive '8003 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1978
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8004**

Details: locomotive '8004 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO

**Date Built:** 12.12.1978
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**BSG Code:** LSNO

**8005**

Details: locomotive '8005 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1978
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8006**

Details: locomotive '8006 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1978
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8007**

Details: locomotive '8007 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8008**

Details: locomotive '8008 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8009**

Details: locomotive '8009 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8010**

Details: locomotive '8010 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8011**

Details: locomotive '8011 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8012**

Details: locomotive '8012 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8013**

Details: locomotive '8013 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8014**

Details: locomotive '8014 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8015**

Details: locomotive '8015 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8016**

Details: locomotive '8016 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8017**

Details: locomotive '8017 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m

**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8018**

Details: locomotive '8018 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8019**

Details: locomotive '8019 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8020**

Details: locomotive '8020 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8021**

Details: locomotive '8021 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8022**

Details: locomotive '8022 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8023**

Details: locomotive '8023 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1978
**Operating System:** SRA OF NSW

**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8024**

Details: locomotive '8024 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8025**

Details: locomotive '8025 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8026**

Details: locomotive '8026 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8027**

Details: locomotive '8027 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8028**

Details: locomotive '8028 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8029**

Details: locomotive '8029 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8030**

Details: locomotive '8030 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8031**

Details: locomotive '8031 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8032**

Details: locomotive '8032 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1978
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8033**

Details: locomotive '8033 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8034**

Details: locomotive '8034 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 07.11.1990 | | |
| US Service Mileage: | 83775 KM | A Service Date: | 07.11.1990 |

**8035**

Details: locomotive '8035 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8036**

Details: locomotive '8036 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 30.05.1990 | | |
| SW Service Mileage: | 371515 KM | SW Service Date: | 30.05.1990 |

**8037**

Details: locomotive '8037 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 06.07.1990 | | |
| US Service Mileage: | 34772 KM | A Service Date: | 06.07.1990 |

**06.07.1990** Service defect: 'UN - FUEL SYSTEM - BOOKED FOR FUEL LEAK.UNABLE TO REPAIR.RETURNED TO NSW FOR REPAIRS.'.

**8038**

Details: locomotive '8038 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 02.05.1991 | | |
| WT Service Mileage: | 143817 KM | WT Service Date: | 02.05.1991 |

**8039**

Details: locomotive '8039 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 24.10.1990 | | |
| SW Service Mileage: | 105146 KM | SW Service Date: | 09.05.1990 |
| US Service Mileage: | 193436 KM | A Service Date: | 24.10.1990 |

**05.09.1990** Service defect: 'TS - LUBRICATING SYSTEM - BOOKED FOR OIL LEAKS.RETURNED TO NSW FOR REPAIRS.'.

**8040**

Details: locomotive '8040 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 06.06.1990 | | |
| US Service Mileage: | 134860 KM | A Service Date: | 06.06.1990 |

**8041**

Details: locomotive '8041 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 26.01.1991 | | |
| SW Service Mileage: | 282404 KM | SW Service Date: | 09.05.1990 |
| US Service Mileage: | 392620 KM | A Service Date: | 26.01.1991 |

**18.07.1990** Service defect: 'TS - TRACTION MOTOR - NO6 TM PINION END BEARING FAULTY.RETURNED TO NSW FOR REPAIRS'.
**26.01.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN AIR PIPE REPLACED'.

**8042**

Details: locomotive '8042 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.11.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8043**

Details: locomotive '8043 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 29.10.1993 | | |
| SW Service Mileage: | 342574 KM | SW Service Date: | 30.05.1990 |
| WT Service Mileage: | 1131403 KM | WT Service Date: | 29.10.1993 |
| US Service Mileage: | 438686 KM | A Service Date: | 21.11.1990 |

**21.11.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY,CHECKED OK IN DEPOT.'.
**29.10.1993** Service defect: 'WT - NIL'.

**8044**

Details: locomotive '8044 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 03.11.1993 | | |
| US Service Mileage: | 88912 KM | A Service Date: | 03.11.1993 |

**06.07.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL PIPE FROM HEAT EXCHANGER REPAIRED A/C LEAK.'.
**03.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - 23 WIRE REPLACED, A/C BURNT IN 'A'END PEDESTAL. TEMPORARY REPAIRS CARRIED OUT ON S5 & S6 DYN SWITCHES.'.

**8045**

Details: locomotive '8045 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

| | | | |
|---|---|---|---|
| Return to Service Date: | 07.11.1990 | | |
| US Service Mileage: | 342394 KM | A Service Date: | 07.11.1990 |

**8046**

Details: locomotive '8046 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8047**

Details: locomotive '8047 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8048**

Details: locomotive '8048 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8049**

Details: locomotive '8049 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.12.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8050**

Details: locomotive '8050 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 121tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.11.1986
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1604kw
**Wagon Width:** 2968mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**8101**

Details: locomotive '8101 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8102**

Details: locomotive '8102 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8103**

Details: locomotive '8103 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8104**

Details: locomotive '8104 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8105**

Details: locomotive '8105 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8106**

Details: locomotive '8106 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8107**

Details: locomotive '8107 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8108**

Details: locomotive '8108 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8109**

Details: locomotive '8109 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8110**

Details: locomotive '8110 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8111**

Details: locomotive '8111 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8112**

Details: locomotive '8112 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8113**

Details: locomotive '8113 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8114**

Details: locomotive '8114 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8115**

Details: locomotive '8115 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8116**

Details: locomotive '8116 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8117**

Details: locomotive '8117 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8118**

Details: locomotive '8118 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8119**

Details: locomotive '8119 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8120**

Details: locomotive '8120 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8121**

Details: locomotive '8121 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8122**

Details: locomotive '8122 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8123**

Details: locomotive '8123 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8124**

Details: locomotive '8124 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8125**

Details: locomotive '8125 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8126**

Details: locomotive '8126 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8127**

Details: locomotive '8127 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8128**

Details: locomotive '8128 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8129**

Details: locomotive '8129 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8130**

Details: locomotive '8130 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8131**

Details: locomotive '8131 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8132**

Details: locomotive '8132 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8133**

Details: locomotive '8133 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8134**

Details: locomotive '8134 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8135**

Details: locomotive '8135 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8136**

Details: locomotive '8136 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8137**

Details: locomotive '8137 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8138**

Details: locomotive '8138 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8139**

Details: locomotive '8139 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8140**

Details: locomotive '8140 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8141**

Details: locomotive '8141 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8142**

Details: locomotive '8142 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8143**

Details: locomotive '8143 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8144**

Details: locomotive '8144 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8145**

Details: locomotive '8145 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8146**

Details: locomotive '8146 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8147**

Details: locomotive '8147 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8148**

Details: locomotive '8148 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8149**

Details: locomotive '8149 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8150**

Details: locomotive '8150 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D

**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1500000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** SRA-NSW
**Date Built:** 21.10.1988
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** TRIAL RUN TRAIN PARKES TO PORT AUGUSTA
**BSG Code:** LSNO

**8151**

Details: locomotive '8151 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8152**

Details: locomotive '8152 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8153**

Details: locomotive '8153 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8154**

Details: locomotive '8154 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8155**

Details: locomotive '8155 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1500000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**BSG Code:** LSNO

**8156**

Details: locomotive '8156 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8157**

Details: locomotive '8157 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8158**

Details: locomotive '8158 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8159**

Details: locomotive '8159 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8160**

Details: locomotive '8160 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1500000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**BSG Code:** LSNO

**8161**

Details: locomotive '8161 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 19.76m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8162**

Details: locomotive '8162 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8163**

Details: locomotive '8163 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1500000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**BSG Code:** LSNO

**8164**

Details: locomotive '8164 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8165**

Details: locomotive '8165 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8166**

Details: locomotive '8166 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8167**

Details: locomotive '8167 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8168**

Details: locomotive '8168 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8169**

Details: locomotive '8169 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8170**

Details: locomotive '8170 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8171**

Details: locomotive '8171 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8172**

Details: locomotive '8172 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8173**

Details: locomotive '8173 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8174**

Details: locomotive '8174 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8175**

Details: locomotive '8175 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8176**

Details: locomotive '8176 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8177**

Details: locomotive '8177 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8178**

Details: locomotive '8178 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8179**

Details: locomotive '8179 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8180**

Details: locomotive '8180 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.10.1982
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2968mm
**Wagon Height:** 4267mm
**BSG Code:** LSNO

**8181**

Details: locomotive '8181 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LSNO

**8182**

Details: locomotive '8182 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LSNO

**8183**

Details: locomotive '8183 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LSNO

**8184**

Details: locomotive '8184 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.8m
**Tare Weight:** 129tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1992
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LSNO

**8201**

Details: locomotive '8201 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8202**

Details: locomotive '8202 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8203**

Details: locomotive '8203 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8204**

Details: locomotive '8204 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8205**

Details: locomotive '8205 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8206**

Details: locomotive '8206 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8207**

Details: locomotive '8207 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8208**

Details: locomotive '8208 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8209**

Details: locomotive '8209 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8210**

Details: locomotive '8210 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8211**

Details: locomotive '8211 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8212**

Details: locomotive '8212 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8213**

Details: locomotive '8213 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8214**

Details: locomotive '8214 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8215**

Details: locomotive '8215 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8216**

Details: locomotive '8216 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8217**

Details: locomotive '8217 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8218**

Details: locomotive '8218 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8219**

Details: locomotive '8219 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8220**

Details: locomotive '8220 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8221**

Details: locomotive '8221 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8222**

Details: locomotive '8222 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8223**

Details: locomotive '8223 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8224**

Details: locomotive '8224 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8225**

Details: locomotive '8225 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8226**

Details: locomotive '8226 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8227**

Details: locomotive '8227 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8228**

Details: locomotive '8228 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8229**

Details: locomotive '8229 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8230**

Details: locomotive '8230 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8231**

Details: locomotive '8231 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8232**

Details: locomotive '8232 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8233**

Details: locomotive '8233 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8234**

Details: locomotive '8234 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8235**

Details: locomotive '8235 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8236**

Details: locomotive '8236 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8237**

Details: locomotive '8237 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8238**

Details: locomotive '8238 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8239**

Details: locomotive '8239 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8240**

Details: locomotive '8240 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8241**

Details: locomotive '8241 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8242**

Details: locomotive '8242 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8243**

Details: locomotive '8243 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8244**

Details: locomotive '8244 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8245**

Details: locomotive '8245 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8246**

Details: locomotive '8246 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8247**

Details: locomotive '8247 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8248**

Details: locomotive '8248 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8249**

Details: locomotive '8249 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8250**

Details: locomotive '8250 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8251**

Details: locomotive '8251 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8252**

Details: locomotive '8252 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8253**

Details: locomotive '8253 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8254**

Details: locomotive '8254 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8255**

Details: locomotive '8255 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8256**

Details: locomotive '8256 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8257**

Details: locomotive '8257 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8258**

Details: locomotive '8258 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2259kw
**Remarks:** CHAMPION 82 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**8501**

Details: locomotive '8501 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8502**

Details: locomotive '8502 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8503**

Details: locomotive '8503 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8504**

Details: locomotive '8504 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8505**

Details: locomotive '8505 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8506**

Details: locomotive '8506 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8507**

Details: locomotive '8507 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8508**

Details: locomotive '8508 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8509**

Details: locomotive '8509 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8510**

Details: locomotive '8510 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.73m
**Tare Weight:** 123tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 09.07.1979

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2960mm
**Wagon Height:** 4330mm
**BSG Code:** LSNO

**8601**

Details: locomotive '8601 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8602**

Details: locomotive '8602 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8603**

Details: locomotive '8603 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8604**

Details: locomotive '8604 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8605**

Details: locomotive '8605 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8606**

Details: locomotive '8606 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8607**

Details: locomotive '8607 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8608**

Details: locomotive '8608 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8609**

Details: locomotive '8609 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8610**

Details: locomotive '8610 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8611**

Details: locomotive '8611 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8612**

Details: locomotive '8612 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8613**

Details: locomotive '8613 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8614**

Details: locomotive '8614 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8615**

Details: locomotive '8615 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8616**

Details: locomotive '8616 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8617**

Details: locomotive '8617 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8618**

Details: locomotive '8618 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8619**

Details: locomotive '8619 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8620**

Details: locomotive '8620 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8621**

Details: locomotive '8621 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8622**

Details: locomotive '8622 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8623**

Details: locomotive '8623 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8624**

Details: locomotive '8624 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8625**

Details: locomotive '8625 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8626**

Details: locomotive '8626 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8627**

Details: locomotive '8627 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8628**

Details: locomotive '8628 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8629**

Details: locomotive '8629 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8630**

Details: locomotive '8630 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8631**

Details: locomotive '8631 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8632**

Details: locomotive '8632 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8633**

Details: locomotive '8633 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8634**

Details: locomotive '8634 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8635**

Details: locomotive '8635 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8636**

Details: locomotive '8636 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8637**

Details: locomotive '8637 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8638**

Details: locomotive '8638 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8639**

Details: locomotive '8639 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8640**

Details: locomotive '8640 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8641**

Details: locomotive '8641 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8642**

Details: locomotive '8642 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8643**

Details: locomotive '8643 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8644**

Details: locomotive '8644 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8645**

Details: locomotive '8645 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8646**

Details: locomotive '8646 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8647**

Details: locomotive '8647 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8648**

Details: locomotive '8648 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8649**

Details: locomotive '8649 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**8650**

Details: locomotive '8650 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 18.73m
**Tare Weight:** 119tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 15.03.1983
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2700kw
**Remarks:** ELECTRIC
**Wagon Width:** 2950mm
**Wagon Height:** 4400mm
**BSG Code:** LSNO

**9001**

Details: locomotive '9001 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9002**

Details: locomotive '9002 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9003**

Details: locomotive '9003 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9004**

Details: locomotive '9004 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9005**

Details: locomotive '9005 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9006**

Details: locomotive '9006 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9007**

Details: locomotive '9007 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9008**

Details: locomotive '9008 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9009**

Details: locomotive '9009 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9010**

Details: locomotive '9010 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9011**

Details: locomotive '9011 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9012**

Details: locomotive '9012 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9013**

Details: locomotive '9013 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9014**

Details: locomotive '9014 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9015**

Details: locomotive '9015 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9016**

Details: locomotive '9016 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9017**

Details: locomotive '9017 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9018**

Details: locomotive '9018 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9019**

Details: locomotive '9019 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9020**

Details: locomotive '9020 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9021**

Details: locomotive '9021 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9022**

Details: locomotive '9022 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9023**

Details: locomotive '9023 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9024**

Details: locomotive '9024 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9025**

Details: locomotive '9025 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9026**

Details: locomotive '9026 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9027**

Details: locomotive '9027 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9028**

Details: locomotive '9028 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9029**

Details: locomotive '9029 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9030**

Details: locomotive '9030 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**9031**

Details: locomotive '9031 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 165tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1994
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 2862kw
**Remarks:** CHAMPION 90 CLASS D/E LOCOMOTIVE.
**Wagon Width:** 3185mm
**Wagon Height:** 4255mm
**BSG Code:** LSNO

**42201**

Details: locomotive '42201 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42202**

Details: locomotive '42202 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.09.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42203**

Details: locomotive '42203 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969

**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42204**

Details: locomotive '42204 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42205**

Details: locomotive '42205 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42206**

Details: locomotive '42206 X' in AN 'Mainland Division'.

**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42207**

Details: locomotive '42207 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42208**

Details: locomotive '42208 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42209**

Details: locomotive '42209 M' in AN 'Mainland Division'.

**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE

**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42210**

Details: locomotive '42210 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42211**

Details: locomotive '42211 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42212**

Details: locomotive '42212 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42213**

Details: locomotive '42213 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42214**

Details: locomotive '42214 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42215**

Details: locomotive '42215 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE

**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42216**

Details: locomotive '42216 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42217**

Details: locomotive '42217 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42218**

Details: locomotive '42218 L' in AN 'Mainland Division'.

**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42219**

Details: locomotive '42219 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**42220**

Details: locomotive '42220 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.56m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 25.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1640kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4240mm
**BSG Code:** LSNO

**44100**

Details: locomotive '44100 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 16.89m
**Tare Weight:** 112tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1450kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2845mm
**Wagon Height:** 4216mm
**BSG Code:** LSNO

**44201**

Details: locomotive '44201 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44202**

Details: locomotive '44202 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44203**

Details: locomotive '44203 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44204**

Details: locomotive '44204 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44205**

Details: locomotive '44205 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44206**

Details: locomotive '44206 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44207**

Details: locomotive '44207 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44208**

Details: locomotive '44208 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44209**

Details: locomotive '44209 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44210**

Details: locomotive '44210 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44211**

Details: locomotive '44211 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44212**

Details: locomotive '44212 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44213**

Details: locomotive '44213 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44214**

Details: locomotive '44214 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44215**

Details: locomotive '44215 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44216**

Details: locomotive '44216 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44217**

Details: locomotive '44217 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44218**

Details: locomotive '44218 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44219**

Details: locomotive '44219 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44220**

Details: locomotive '44220 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44221**

Details: locomotive '44221 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Broad
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44222**

Details: locomotive '44222 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44223**

Details: locomotive '44223 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44224**

Details: locomotive '44224 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44225**

Details: locomotive '44225 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44226**

Details: locomotive '44226 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44227**

Details: locomotive '44227 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44228**

Details: locomotive '44228 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44229**

Details: locomotive '44229 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44230**

Details: locomotive '44230 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44231**

Details: locomotive '44231 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44232**

Details: locomotive '44232 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44233**

Details: locomotive '44233 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44234**

Details: locomotive '44234 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44235**

Details: locomotive '44235 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44236**

Details: locomotive '44236 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44237**

Details: locomotive '44237 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44238**

Details: locomotive '44238 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44239**

Details: locomotive '44239 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**44240**

Details: locomotive '44240 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 115tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 29.03.1971
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1601kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2934mm
**Wagon Height:** 4242mm
**BSG Code:** LSNO

**48100**

Details: locomotive '48100 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48101**

Details: locomotive '48101 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48102**

Details: locomotive '48102 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48103**

Details: locomotive '48103 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48104**

Details: locomotive '48104 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48105**

Details: locomotive '48105 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48106**

Details: locomotive '48106 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48107**

Details: locomotive '48107 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48108**

Details: locomotive '48108 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48109**

Details: locomotive '48109 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48110**

Details: locomotive '48110 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48111**

Details: locomotive '48111 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48112**

Details: locomotive '48112 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48113**

Details: locomotive '48113 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48114**

Details: locomotive '48114 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48115**

Details: locomotive '48115 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48116**

Details: locomotive '48116 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48117**

Details: locomotive '48117 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48118**

Details: locomotive '48118 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48119**

Details: locomotive '48119 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48120**

Details: locomotive '48120 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1989
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48121**

Details: locomotive '48121 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48122**

Details: locomotive '48122 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48123**

Details: locomotive '48123 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48124**

Details: locomotive '48124 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48125**

Details: locomotive '48125 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48126**

Details: locomotive '48126 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48127**

Details: locomotive '48127 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48128**

Details: locomotive '48128 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48129**

Details: locomotive '48129 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48130**

Details: locomotive '48130 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48131**

Details: locomotive '48131 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48132**

Details: locomotive '48132 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48133**

Details: locomotive '48133 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48134**

Details: locomotive '48134 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48135**

Details: locomotive '48135 G' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48136**

Details: locomotive '48136 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48137**

Details: locomotive '48137 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48138**

Details: locomotive '48138 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48139**

Details: locomotive '48139 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48140**

Details: locomotive '48140 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48142**

Details: locomotive '48142 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48143**

Details: locomotive '48143 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48144**

Details: locomotive '48144 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48145**

Details: locomotive '48145 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48146**

Details: locomotive '48146 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48147**

Details: locomotive '48147 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48148**

Details: locomotive '48148 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48149**

Details: locomotive '48149 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48150**

Details: locomotive '48150 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48151**

Details: locomotive '48151 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48152**

Details: locomotive '48152 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48153**

Details: locomotive '48153 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48154**

Details: locomotive '48154 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48155**

Details: locomotive '48155 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48156**

Details: locomotive '48156 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48157**

Details: locomotive '48157 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48158**

Details: locomotive '48158 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48159**

Details: locomotive '48159 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48160**

Details: locomotive '48160 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48161**

Details: locomotive '48161 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48162**

Details: locomotive '48162 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw

**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48163**

Details: locomotive '48163 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48164**

Details: locomotive '48164 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

**48165**

Details: locomotive '48165 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW
**Operator:** D
**Length Over Headstocks:** 13.49m
**Tare Weight:** 78tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1959
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 780kw
**Remarks:** DIESEL ELECTRIC
**Wagon Width:** 2970mm
**Wagon Height:** 4270mm
**BSG Code:** LSNO

## 2.2 Locomotive classification starting with 'A'

**A 60**

Details: locomotive 'A 60 D' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LBVO

**A 62**

Details: locomotive 'A 62 V' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELCTRIC
**BSG Code:** LBVO

**A 66**

Details: locomotive 'A 66 L' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LBVO

**A 70**

Details: locomotive 'A 70 L' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LBVO

**A 71**

Details: locomotive 'A 71 U' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LBVO

**A 73**

Details: locomotive 'A 73 P' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELCTRIC
**BSG Code:** LBVO

**A 77**

Details: locomotive 'A 77 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LBVO

**A 78**

Details: locomotive 'A 78 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LBVO

**A 79**

Details: locomotive 'A 79 A' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LBVO

**A 81**

Details: locomotive 'A 81 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 10.07.1991

**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LBVO

**A 85**

Details: locomotive 'A 85 S' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.6m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1991
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** DIESEL ELECTRIC
**BSG Code:** LBVO

## 2.3 Locomotive classification starting with 'AL'

**AL 18**

Details: locomotive 'AL 18 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $691470
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 10
**Date Built:** 04.10.1976
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** W/O 25.09.93
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 18.08.1993 | | |
| Last Lift: | 16.05.1987 | | |
| SW Service Mileage: | 1076829 KM | SW Service Date: | 07.08.1992 |
| A Service Mileage: | 1170207 KM | A Service Date: | 27.05.1993 |
| B Service Mileage: | 1196117 KM | B Service Date: | 18.08.1993 |
| C Service Mileage: | 1143163 KM | C Service Date: | 11.03.1993 |
| D Service Mileage: | 748909 KM | D Service Date: | 01.10.1990 |
| E Service Mileage: | 1050167 KM | A Service Date: | 09.04.1992 |
| F Service Mileage: | 0 KM | A Service Date: | 16.05.1987 |
| WT Service Mileage: | 1174259 KM | WT Service Date: | 25.05.1993 |
| US Service Mileage: | 1195186 KM | A Service Date: | 07.08.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**14.07.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BRUSHES REPLACED IN NO 5&6 TM'S.NO4 TM HAS FLASHED,POSSIBLE CAUSE,COPPER DRAG BETWEEN SEGMENTS.'.
**02.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - VOLTAGE - BATTERY VOLTAGE LOW AFTER 'E' SVCE AND HAD TO BE JUMP STARTED IN DEPOT.'.
**02.08.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - REGULATOR - VOLTAGE REGULATOR ADJUSTED TO 72V.'.
**02.08.1989** Service defect: 'UN - ENGINE GOVERNOR - LOW OIL IN GOV - GOV DRAIN PLUG REPLACED.'.
**13.08.1989** Service defect: 'UN - TRACTION MOTOR - BROKEN T/M BLOWER DUCT - 'B' END AIR DUCT PLATE REWELDED.'.
**17.08.1989** Service defect: 'UN - GENERAL ACCIDENT - BROKEN WINDSCREEN - 'A' END OBSERVERS SIDE WINDSCREEN REPLACED A/C BROKEN BY HITTING AN EAGLE.'.
**19.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLAT WHEELS CHECKED TO BE OK.'.
**19.08.1989** Service defect: 'UN - DYNAMIC BRAKE - B END DYNAMIC BRAKE , CONTROLLER RESISTOR WIRING REPAIRED.'.
**08.09.1989** Service defect: 'A - ALTERNATOR - AUX ALTERNATOR BINDING LIFTING - AUX ALT REPLACED.'.
**23.09.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - HEATER FAULT - WIRE ON TERMINAL BOARD REPAIRED A/C BROKEN.'.
**23.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REVERSER FAULT - REVERSER MOTOR UNIT REPLACED.'.
**03.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**06.12.1989** Service defect: 'UN - EXHAUST - CRACKED JOINT - EXHAUST EXPANSION JOINT REPLACED.'.
**11.12.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2&4),6 BAGS(3,5&6).'.
**11.12.1989** Service defect: 'A - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - T/MOTOR COMM.CLEANED/UP NO.4 MOTOR. - 2 BRUSH HOLDERS REPLACED.'.
**11.12.1989** Service defect: 'A - ENGINE LINER - BROKEN STUD - NO.15 LINER REPLACED.'.
**24.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.
**07.01.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - 'A'END RHEOSTAT RH49 REPLACED.'.
**08.01.1990** Service defect: 'UN - BLOCKED FILTERS - CLOGGED FILTERS - AIR INTAKE FILTERS REPLACED.'.
**13.01.1990** Service defect: 'TW - BATTERY MAINTENANCE - LOW ON WATER - 12 GALLS ADDED TO BATTERIES.'.
**13.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**26.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**26.01.1990** Service defect: 'TW - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION

COMPLETED.'.
**20.02.1990** Service defect: 'SW - AIR CONDITIONING - AIR/COND.- ?????'.
**20.02.1990** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC FAULT - TWO RESISTORS REPLACED'A'END.(MELTED,O.C.C.) - B.C.MICRO/SWITCH WIRE REPAIRED.(TO FRAME)'.
**20.02.1990** Service defect: 'SW - RADIO REPAIR - BLACK BOX - REPOSITIONED.'.
**22.02.1990** Service defect: 'WT - BRAKE ADJUST MILE END'.
**23.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**26.02.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**27.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(4,5&6),6 BAGS(1,2&3). (TMGL)'.
**27.02.1990** Service defect: 'TW - NO FAULT FOUND - DYNAMIC - OPERATION NOT FAULTED.'.
**28.02.1990** Service defect: 'UN - FUEL SYSTEM - MODIFICATION - HARMON FUEL SAVING DEVICE INSTALLED.'.
**03.03.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AIR COND FAULT - CIRCUIT BREAKERS CHANGED (EX AL 22).'.
**18.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. ROUGH RIDING - STABILISERS 'B'END REVERSED.'.
**18.03.1990** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - PULL METER - 'B'END PULL METER REPLACED.'.
**19.03.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FUEL TEST - HARMON FUEL TEST COMPLETED.'.
**21.03.1990** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - SHAFT SEAL REPLACED & UNIT RE-GASSED. - CONE RUBBERS REPLACED.'.
**21.03.1990** Service defect: 'UN - BOGIE - NO.3 DRIVE GEAR - CHECKED OK.'.
**03.04.1990** Service defect: 'A - AIR CONDITIONING - AIR/COND.FAULT'.
**03.04.1990** Service defect: 'A - OTHER BODY REPAIRS - COLLISION REPAIRS -'.
**05.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**06.04.1990** Service defect: 'UN - BOGIE - SIDE/SLAP - CENTRE PLATES REPLACED.'.
**06.04.1990** Service defect: 'UN - RADIO REPAIR - RADIO -'.
**30.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HARMON FUEL TESTS - COMPLETED.'.
**06.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**19.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**19.05.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - SPEEDO UNIT REPLACED.'.
**24.05.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,5&6),5 BAGS(3&4).'.
**24.05.1990** Service defect: 'B - ENGINE CYLINDER HEADS - CRACKED HEAD - NO.11 CYLINDER HEAD REPLACED.'.
**24.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - MECHANISM CHANGED,PLUG TO UNIT REPAIRED.'.
**28.05.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - (OLD AGE). - B END SPEEDO MOTOR ON SPEEDO RPLACED A/C U/S'.
**28.05.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDO FAULTY - A END MAIN DRIVE GEAR ON AXLE REPLACED A/C TEETH CHEWED OFF,CABLE REPLACED A/C PERISHED'.
**06.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&3),5 BAGS(4,5&6).'.
**11.06.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAULTY FAN - NO.1 DYNAMIC FAN REPLACED.'.
**16.06.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - TRANSFER MOTOR REPLACED.'.
**16.06.1990** Service defect: 'UN - ENGINE - HUNTING PROBLEM - FILTERS ETC.CHECKED OK.'.
**20.06.1990** Service defect: 'SW - OTHER BODY REPAIRS - CREW CALL MODS.- COMPLETED.'.
**29.06.1990** Service defect: 'SW - EXHAUST - BLOWN GASKETS - EXHAUST GASKETS RE-NEWED & STACKS REPLACED.'.
**08.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 4 BAGS ADDED TO EACH CASE.'.
**01.08.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS ADED TO EACH G/CASE. DRIVE GEAR WEAR - NO.3 DRIVE GEAR CHECKED OK.'.
**01.08.1990** Service defect: 'A - TO BE PROFILED A/C R.4 FLANGE (8+). (1/8)'.
**09.08.1990** Service defect: 'UN - RADIO REPAIR - C/BREAKER TRIPPING - LOOSE CONVERTER WIRES SECURED.'.
**19.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**23.08.1990** Service defect: 'SW - EXHAUST - FUMES IN 'B'END CAB - TURBO EXPANSION JOINT REPLACED.'.
**24.08.1990** Service defect: 'UN - NO FAULT FOUND - LOW POWER - LOCO LOAD/TESTED,NOT FAULTED.'.
**30.08.1990** Service defect: 'TS - ALTERNATOR - ALTN.LIGHT ILLUMINATED - AUX/GENERATOR REPLACED.(BINDER U/S) - SERIAL NO.301G-75.'.
**02.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**10.09.1990** Service defect: 'TS - OTHER BODY REPAIRS - HATCH MISSING - O/SIDE EXTENDED RANGE CONTACTOR HATCH REPL'D - (TAKEN FROM CL3)'.
**10.09.1990** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORTED - RAD/FAN CONTACTOR WIRE REPAIRED. - (LUG BLOWN OFF WIRE TO CONTACTOR)'.
**10.09.1990** Service defect: 'TS - RADIATOR/PRESSURISING FAN - OPEN CCT.FAN - NO.2 RADIATOR FAN REPLACED. - FAN WIRING REPAIRED.'.
**10.09.1990** Service defect: 'TS - RADIO REPAIR - RADIO WIRING - REPAIRED.'.
**18.09.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL PIPE NEXT TO ENG PROTECTION DEVICE REPAIRED A/C LEAKING.'.
**19.09.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - WORN PLATES - THROAT PLATES 'A'&'B'END REPLACED. - (MANGANESE PLATE USED)'.
**27.09.1990** Service defect: 'UN - EXHAUST - BLOWN JOINT - TURBO EXPANSION JOINT & GASKETS REPLACED.'.
**15.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C

WTM.'.

**20.10.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS(4,5&6),4 BAGS(1,2&3).'.

**20.10.1990** Service defect: 'UN - NO FAULT FOUND - LOW POWER - CHECKED IN DEPOT,NOT FAULTED.'.

**26.10.1990** Service defect: 'UN - NO FAULT FOUND - HUNTING UNDER POWER - LOAD/BANKED,NOT FAULTED.'.

**05.11.1990** Service defect: 'UN - AIR CONDITIONING - BROKEN PIPE FROM LIQUID RECEIVER TO DRIER REPAIRED UNIT REGASSED'.

**09.11.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS(2,3&4),6 BAGS(1,5&6).'.

**09.11.1990** Service defect: 'A - THRU RUNNING MODS TO COMPLETE.'.

**12.11.1990** Service defect: 'SW - OTHER BODY REPAIRS - THRU-RUNNING MODS - COMPLETED.'.

**26.11.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK 4 BAGS (1,2,3,4,5,6)'.

**08.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS(4,5&6),6 BAGS(1,2&3).'.

**20.12.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND - SYSTEM RE-GASSED.'.

**20.12.1990** Service defect: 'UN - BATTERY MAINTENANCE - DEAD CELLS - 4 NO.STARTING BATTERIES REPLACED.'.

**20.12.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - DRIVE MISSING - SPEEDO DRIVE & UNIT INSTALLED.'.

**20.12.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAILURE - 'B'END CONVERTOR REPLACED.'.

**11.01.1991** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS(1),6 BAGS(2-5),7 BAGS(6).'.

**11.01.1991** Service defect: 'TS - DYNAMIC BRAKE - CABLES BURNT - HATCH REMOVED,DYNAMIC WIRING REPAIR COMPLETED'.

**11.01.1991** Service defect: 'TS - EXHAUST - BURNT/OUT JOINT - TURBO EXPANSION JOINT REPLACED.'.

**27.01.1991** Service defect: 'UN - DRIVER FAULT - FUEL FILTERS CLEANED/REPLACED A/C LOCO RAN OUT OF FUEL.'.

**30.01.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. NOT CHARGING - CHECKED O.K. NO FAULT FOUND.'.

**30.01.1991** Service defect: 'UN - ROUGH RIDING, - RESILIENT RUBBERS TO BE CHECKED.'.

**04.02.1991** Service defect: 'SW - BOGIE - ROUGH/RIDING - NEW SET RESILIANTS FITTED.'.

**04.02.1991** Service defect: 'SW - OVERHEATING - HOT ENGINE REPORT - RADIATORS,THERMOSTATS & FANS CHECKED OK.'.

**07.02.1991** Service defect: 'UN - BOGIE - RESILIANT RUBBERS REPLACED A/C SIDE SLAP'.

**07.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - LOCO CRATERED,SUSPENSION BEARING OIL TOPPED UP.'.

**07.02.1991** Service defect: 'UN - EXHAUST JOINT BROKEN AT BOTTOM OF TURBO,BOLSTER'.

**07.02.1991** Service defect: 'UN - WEAR PLATES BADLY WORN,MAIN RESERVOIR PIPE LEAKING'.

**07.02.1991** Service defect: 'UN - 'B'END DRAUGHT PACKAGE TO RENEW URGENTLY].'.

**13.02.1991** Service defect: 'UN - 'B' BOGIE TO WASH'.

**21.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - TO W.T.M.A/C CONDEMNED 'G' GAUGE - SIDE SLAP.'.

**27.02.1991** Service defect: 'UN - BOGIE - BOGIES - O/HAULED SET INSTALLED.'A'BOGIE CL130. 'B'BOGIE CL129.'.

**11.04.1991** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK - NO10 POWER ASSY REPLACED A/C LINER LEAKING WATER FROM GROMMET HOLE.'.

**11.04.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - 'A' END DRAW GEAR PACKAGE REPLACED A/C EXPLODED BOX.'.

**30.04.1991** Service defect: 'UN - EXHAUST - EXHAUST EXPANSION JOINT BETWEEN TURBO & MANIFOLD REMOVED, REPLACED WITH NEW JOINT EX AL 22,A/C CRACKED.TESTED OK.'.

**01.05.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - LOOSE PIGTAILS NO 3 T/MOTOR,REPAIRED.'.

**08.05.1991** Service defect: 'UN - OTHER BODY REPAIRS - OBS/SIDE WINDOW 'A'END REPLACED.'.

**15.05.1991** Service defect: 'A - ENGINE - NO 10 POWER ASSEMBLY REPLACED.'.

**15.05.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - N012 TEST COCK REPLACED.'.

**21.05.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN WINDSCREEN - 'A' END O/S REPLACED.'.

**12.07.1991** Service defect: 'C - WATERCOOLER DRAIN TO CHECK, A/C POSSIBLY BLOCKED.'.

**12.07.1991** Service defect: 'C - 12/7.*HOT PLATE SWITCH 'A'END TO REPLACE, A/C NIL'.

**12.07.1991** Service defect: 'C - STOCK MPC.12/7.*'.

**01.08.1991** Service defect: 'TS - BATTERY MAINTENANCE - DEAD CELLS - 3 NO.STARTING BATTERIES REPLACED.'.

**01.08.1991** Service defect: 'TS - WHEELSLIP - WHEEL/SLIP - LOCO TEST RUN COMPLETED,NO FAULT EVIDENT. - PREVIOUSLY COUPLED TO CL11 WITH T/MTR PROBLEM.'.

**18.09.1991** Service defect: 'TW - BATTERY MAINTENANCE - DEAD CELL - 1 NO.STARTING BATTERY REPLACED.'.

**18.09.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**10.10.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - HEATERS REPAIRED.'.

**10.10.1991** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER CHANGE.AIR INTAKE FILTERS CHANGED.'.

**04.11.1991** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - GOVERNOR REPLACED. A/C 'B' VALVE HIGH RESISTANCE.'.

**11.12.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 6 HEAD CHANGED,A/C CRACKED + SPLIT HEAD GASKET GROMMET. CHECKED FOR LEAKS, OIL DRAINED & REFILLED.'.

**13.01.1992** Service defect: 'UN - BOGIE - T/M BLOWER DUCTS REPAIRED.'.

**13.01.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION CHECKED OK.'.

**22.01.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - FC CONTACTS CHANGED, 3 FULL SETS.'.

**22.01.1992** Service defect: 'A - DYNAMIC BRAKE - 4 BRUSHES CHANGED DYN BRAKE FANS.'.

**19.02.1992** Service defect: 'UN - ENGINE WATER LEAK - NOS.3.4.ELBOW ASSEMBLEYS LEAKS FIXED .CHANGED'O'RINGS.'.

**17.03.1992** Service defect: 'UN - AUXILLARY MACHINES -

UX. GEN. MOUNT REPAIED.'.

**17.03.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - R6 SLACK ADJUSTER REPLACED.'.

**24.03.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO.4 HEAD REPLACED.A/C LEAKING GROMMETS.'.

**09.04.1992** Service defect: 'E - ELECTRICAL MISC. MODULES - D.P. MODULE REPLACED,A/C BRAKE WARNING & GRID OVERCURRENT LIGHTS COMING ON ON DY/BRAKE SET UP WHILE STATIONARY.'.

**09.04.1992** Service defect: 'E - LUBRICATING SYSTEM - TURBO SOAK BACK FILTER 'O'RING REPLACED,A/C OIL LEAK.'.

**11.05.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - L.H. RADIATOR BANK SWAPPED WITH CL2,A/C END RADIATOR U/S. LOCO STARTED & TESTED OK FOR WATER LEAKS.'.

**11.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**10.06.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS INSPECTED ,MINOR WET SPOT FOUND OBSERVERS SIDE-TO BE MONITORED.'.

**10.06.1992** Service defect: 'UN - RADIATORS TO MONITOR FOR LEAKS'.

**26.06.1992** Service defect: 'A - COOLING SYSTEM - COOLANT WATER CHANGED.'.

**26.06.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - HEATER ELEMENTS REPLACED.'.

**26.06.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 26 T/M BRUSHES CHANGED.'.

**07.08.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO.1 WHEELSET CHANGED. NO.1 - 4 - AND 5 WHEELSETS ALL NEW.'.

**17.08.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET SCREEN BADLY BLOCKED. SCREEN REMOVED AND CLEANED. HEAT SHIELD REPAIRED. TURBO CHECKED OK. EXHAUST'.

**09.09.1992** Service defect: 'UN - BLOCKED FILTERS - MICHIANA FILTERS CHANGED A/C LOCO SHUTTING DOWN WITH LOW OIL PRESSURE.'.

**22.09.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - NO 6 WHEELSET CHANGED,NEW BEARINGS INSTALLED,A/C R6 SUPPORT BEARING MISSING TWO BOLTS & LOOSE.CROWN GEAR CHIPPED & BOTH'.

**22.09.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - HOT ENGINE ALARM AND LIGHT CHECKED OK.'.

**22.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED & TESTED OK.'.

**22.09.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE COCK REPLACED,'A'END D/S.'.

**23.09.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - TR11 MODULE FAILED STATIC TRANSITION TEST BUT OK ON TRIAL RUN.'.

**23.09.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION FWD & BACKWARD CHECKED OK.'.

**02.11.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION TESTED STATICALLY OK. LOCO SENT ON TRIAL RUN, TRANSITION CHECKED OK, LOCO RELEASED TO TRAFFIC.'.

**02.11.1992** Service defect: 'UN - WHEELSLIP - WHEELSLIP, LOCO CIRCUITING CHECKED OK.'.

**06.11.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - PIGTAIL BOLTS TIGHTENED IN ALL T/M'S, LOOSE.'.

**06.11.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - PIGTAILS & BRUSHES CHANGED IN NO 6 T/MOTOR, A/C BANGING LOOSE.'.

**17.12.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - RESISTORS R11 & R12 REPLACED, A/C BLOWN.'.

**17.12.1992** Service defect: 'A - TRACTION MOTOR - NO 1 T/MOTOR REPLACED, A/C HIGH RESISTANT JOINT ON BRUSH. T/M IN- 8191-1128. T/M OUT- 69E1-1053.'.

**17.12.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - TOP BRUSH HOLDER ON NO 3 T/M REPLACED, A/C MOLTEN DAG NEAR RISER BARS. TOP BRUSH HOLDER ON NO4 T/M REPLACED, A/C LOOSE'.

**23.12.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 5 CYLINDER HEAD REPLACED, A/C WATER LEAK. LOCO RUN UP & TESTED OK.'.

**23.12.1992** Service defect: 'UN - GENERAL - PARTITION DOOR (ENG ROOM) HINGES REPAIRED.'.

**23.12.1992** Service defect: 'UN - LUBRICATING SYSTEM - TURBO OIL FILTER OIL LEAK REPAIRED.'.

**21.01.1993** Service defect: 'UN - NO FAULT FOUND - FULL INSPECTION CARRIED OUT,UNABLE TO FIND LEAK.'.

**21.01.1993** Service defect: 'UN - REVERSER - REPAIRED PF MODULES.REVERSE TRANSITION OK.'.

**21.01.1993** Service defect: 'UN - VIGILANCE - CAPACITOR ON FLIP-FLOP REPLACED.VIGILANCE CHECKED OK.'.

**02.02.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - SENT TO PT AUG, A/C GOVERNOR REPAIRS.'.

**23.02.1993** Service defect: 'UN - ENGINE - 1' & 3 1/2' MARMON COUPLINGS REPLACED ON PIPES TO MICHIANA. MARMON COUPLINGS OM WATER PIPES TIGHTENED.'.

**23.02.1993** Service defect: 'UN - LUBRICATING SYSTEM - GASKETS & 'O'RINGS REPLACED ON PIPES TO MAIN LUBE OIL PUMP. HOSES TO GOVERNOR REPLACED.'.

**11.03.1993** Service defect: 'C - BOGIE - NO 1 & NO 2 LATERALS CHACKED OK, NO 3 & 4 LHS RESILIENT RUBBERS CHECKED OK, L1,L2 & L5 RESILIENT RUBBERS REPLACED.'.

**11.03.1993** Service defect: 'C - COOLING SYSTEM - COOLANT CHANGED.'.

**11.03.1993** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - MICRO SWITCH 'B'END CHANGED,A/C WRONG ONE IN.'.

**11.03.1993** Service defect: 'C - ENGINE - NO 5 POWER ASSEMBLY CHANGED.'.

**02.04.1993** Service defect: 'UN - GENERAL - DOOR SEAL TO ENGINE ROOM REPLACED & REPAIRED. CAB SIDE DOOR OBS/SIDE SEAL REPLACED.'.

**15.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE TO EQUALISING RESERVOIR GAUGE REPLACED, VIGILANCE GAUGEREPAIRED, FLOW GAUGE REPAIRED, AIR TEST OK,A/C BRAKE PIPE'.

**15.04.1993** Service defect: 'UN - VIGILANCE - VIGILANCE TIMING RESET.'.

**29.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO TRANSMITTER & CURRENT REGULATOR REPLACED.'.

**29.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO 19 DOUBLE CHECK VALVE CLEANED & SEALS REPLACED. OBS/SIDE 'A'END MAIN/RES COCK REPLACED.'.
**29.04.1993** Service defect: 'UN - VIGILANCE - VIG TIMING ADJUSTED.'.
**27.05.1993** Service defect: 'A - ENGINE LINER - NO 10 LINER CHANGED,A/C SCORED.'.
**27.05.1993** Service defect: 'A - ENGINE PISTON - NO 10 PISTON CHANGED,A/C SCORED.'.
**06.07.1993** Service defect: 'TS - ENGINE WATER LEAK - 'Y' PIECE GASKETS AND COUPLING RUBBERS REPLACED.'.
**06.07.1993** Service defect: 'TS - LUBRICATING SYSTEM - OIL CHANGED A/C FUEL DILUTION. TOP DECK CHECKED OK. 70PSI IN NOTCH 8.'.
**06.07.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESEVOIR PIPE COCK REPAIRED.'.
**07.08.1993** Service defect: 'UN - ENGINE - OIL & WATER LEAKS REPORTED - ENGINE INSPECTION OK. TOP RING CLEARANCES MEASURED & RECORDED. LOCO RELEASED FOR CONTROL'.
**07.08.1993** Service defect: 'UN - SLIGHT LEAK AT HEADER TANK.7/8.'.
**18.08.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R4, L4, R5 AND R6 WICKS REPLACED. ALL HAVE NEW OIL.'.
**18.08.1993** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - ENGINE TEMPERATURE SWITCH REPLACED A/C FALLEN APART.'.
**18.08.1993** Service defect: 'B - ENGINE - ENGINE OIL PRESSURE 100PSI.'.
**18.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR GOVERNOR ADJUSTED. AUXILLARY DOOR REPAIRED.'.
**18.08.1993** Service defect: 'B - OTHER BODY REPAIRS - WATER FILLER NECK WELDED A/C CRACKED.'.
**18.08.1993** Service defect: 'B - RADIATOR/PRESSURISING FAN - NO.3 RADIATOR FAN AND FUSES REPLACED. FAN BEARINGS U/S.'.
**18.08.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ONE BRUSH HOLDER CHANGED.9 O'CLOCK. 9 BRUSHES CHANGED.'.

**AL 19**

Details: locomotive 'AL 19 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $691470
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 10
**Date Built:** 18.10.1976
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** W/O 18.12.93
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 21.10.1993 | | |
| Last Lift: | 08.07.1988 | | |
| SW Service Mileage: | 924840 KM | SW Service Date: | 05.05.1993 |
| A Service Mileage: | 1030366 KM | A Service Date: | 21.10.1993 |
| B Service Mileage: | 889069 KM | B Service Date: | 05.02.1993 |
| C Service Mileage: | 974629 KM | C Service Date: | 20.07.1993 |
| D Service Mileage: | 793200 KM | D Service Date: | 13.08.1992 |
| E Service Mileage: | 477211 KM | A Service Date: | 21.01.1991 |
| F Service Mileage: | 0 KM | A Service Date: | 08.07.1988 |
| WT Service Mileage: | 997823 KM | WT Service Date: | 27.08.1993 |
| US Service Mileage: | 1003884 KM | A Service Date: | 07.09.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**31.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**14.08.1989** Service defect: 'TS - ELECTRICAL MISC. MODULES - WHEELSLIP AT TRANSITION - TR MODULE REPLACED AND LOCO TESTEDOK.'.
**14.08.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOW TENSION EARTH - 6H60 WIRE BETWEEN TEST SWITCH AND FOR RELAY REPAIRED A/C RUBBED THROUGH.'.
**17.08.1989** Service defect: 'UN - BOGIE - TEMPORARY REPAIRS MADE TO NO5 GEARCASE CAP.'.
**21.08.1989** Service defect: 'UN - ENGINE - EXESS OIL COMING FROM STACK.'.
**24.08.1989** Service defect: 'UN - BOGIE - NO 5 GEAR CASE LUG REPAIRED,A/C BROKEN.'.
**24.08.1989** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE , RHEOSTATS OK,GRIDS OK,RHEOSTAT CIRCUIT BREAKER FOUND OFF.'.
**30.09.1989** Service defect: 'UN - ENGINE - EXCESSIVE WORN AND CHIPPED PISTON RING LANDS - ALL 16N0 POWER ASSY'S REPLACED WITH NEW PISTONS, RINGS, AND LINERS'.
**30.09.1989** Service defect: 'UN - ENGINE - REUSED.'.
**30.09.1989** Service defect: 'UN - ENGINE - SUPPLIED UNDER WARRANTY FROM S&S USA. CYL HEADS WASHED AND REUSED. SEAT RINGS WITH 'O' RING FITTED. CON ROD BEARINGS'.
**30.09.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - OIL LEAK - TURBO REMOVED TO CHECK INTERNALS FOR POSSIBLE OIL LEAK. 2N0 BOLTS FOUND LOOSE AND RUBBED INTO TURBO WHEEL.'.
**30.09.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - SUN GEAR SHAFT ON TURBO WHEEL REQUIRES REPLACING AND ALSO INLET SCROLL LABYRINTH SEAL. TURBO TO FULLY O/H. EX S&S TURB'.
**09.10.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**08.11.1989** Service defect: 'A - ENGINE - CRABS TORQUED TO 2400.'.
**08.11.1989** Service defect: 'A - LUBRICATING SYSTEM - LUBE CHECK - 4BAGS OF CRATER ADDED TO EACH GEAR CASE.'.
**08.11.1989** Service defect: 'A - TRACTION MOTOR EARTH - NO.6.TRACTION MOTOR REPLACED A/C EARTH

FAULT.'.
**08.12.1989** Service defect: 'TW - AIR CONDITIONING - AIR/COND - UNIT RE-GASSED.'.
**08.12.1989** Service defect: 'TW - AUXILLARY MACHINES - FRIDGE FAULT - RAGS REMOVED FROM FRIDGE CONDENSOR INTAKE. - OPERATION CHECKED OK.'.
**08.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (CRATER)'.
**02.01.1990** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - UNIT RE-GASSED & OPERATION CHECKED OK.'.
**02.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS BLOCKED - CLEARED & OPERATION CHECKED OK.'.
**05.01.1990** Service defect: 'B - AIR CONDITIONING - FAULT - HIGH/PRESSURE DISCHARGE HOSE REPLACED.(SPLIT) - SERVICE VALVE REPLACED.'.
**05.01.1990** Service defect: 'B - TO BE PROFILED A/C CONDEMNED WHEEL(R.3 FLANGE 9)'.
**05.01.1990** Service defect: 'B - (5/1)'.
**10.01.1990** Service defect: 'WT - NO 3 WHEEL TO CHANGE A/C FLANGE'.
**10.01.1990** Service defect: 'WT - NO 2 WHEEL TO CHANGE A/C THERMAL CRACKING'.
**11.01.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - ONE SPOT REPORTED CRACK NO2 WHEELSET,CHECKED IN DEPOT NONE FOUND.'.
**19.01.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEELS - O/HAULED BOGIES INSTALLED.'.
**19.01.1990** Service defect: 'SW - TRACTION MOTOR - T/MOTORS - UP/GRADED T/MOTORS FROM CLYDE INSTALLED.'.
**04.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - TRANSMITTER FAULT - SPEEDO TRANSMITTER REPLACED & TESTED OK.'.
**09.02.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK -'.
**09.02.1990** Service defect: 'UN - TRACTION MOTOR - WORN PINION - NO.2 T/MOTOR REPLACED.'.
**13.02.1990** Service defect: 'UN - RADIO REPAIR - UHF RADIO FITTED.'.
**02.03.1990** Service defect: 'UN - FUEL SYSTEM - MODIFICATION - HARMON FUEL SAVING DEVICE INSTALLED.'.
**14.03.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2,3,5&6),18 BAGS(4).'.
**14.03.1990** Service defect: 'TS - TRACTION MOTOR SUSPENSION BEARING - SUPPORT FAILURE - NO.4 T/MOTOR REPLACED.'.
**05.04.1990** Service defect: 'UN - AUXILLARY MACHINES - FRIDGE REPAIRS -'.
**05.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HARMON FUEL TESTING - COMPLETED.'.
**05.04.1990** Service defect: 'UN - EXHAUST - BLOWN GASKET - GASKET REPLACED ON NO.4 STACK.'.
**05.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED.'.
**09.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS(1),6 BAGS(3,4,5&6),8 BAGS(2). DRIVE GEAR DRY - NO.2 G/CASE TO MONITOR.'.
**09.04.1990** Service defect: 'UN - VIGILANCE - STICKING BUTTON - 'A'END D/SIDE BUTTON OPERATION NOT FAULTED'.
**10.04.1990** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - FLUCTUATING POWER -'.
**14.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - BROKEN HOSE - R.1 SANDER HOSE & NOZZLE REPLACED.'.
**28.04.1990** Service defect: 'UN - AUXILLARY MACHINES - FRIDGE - REMOVED A/C BLOWING FUSES.'.
**28.04.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - POWER SURGE - TRANSITION TESTED OK.'.
**05.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS(1,3,4,5&6),10 BAGS(2).'.
**09.05.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 1 BAG(1&5),2 BAGS(2,3,4&6).'.
**16.05.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO.3 T/MOTOR REPLACED.(ARMATURE TO FRAME)'.
**20.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2,3,4&6),10 BAGS(5).'.
**04.06.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING -'.
**13.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. - (CRATER ADDED A/C NO TMGL AVAILABLE)'.
**03.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 4 BAGS ADDED TO EACH CASE.'.
**03.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**12.07.1990** Service defect: 'UN - NO FAULT FOUND - GROUND RELAY'S - UNABLE TO FAULT, HIGH TENSION 5 MEG.'.
**22.07.1990** Service defect: 'UN - ALTERNATOR - ALTERNATOR FAILURE - UNIT CHANGED/OUT.(EX.CL8 ALT.INSTALLED)'.
**03.08.1990** Service defect: 'A - AUXILLARY MACHINES - HYLAN FRIDGE REFITTED TO 'A' END CAB AFTER MODIFICATIONS COMPLETED.'.
**20.08.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&4),REST OK.'.
**20.08.1990** Service defect: 'UN - NO FAULT FOUND - HUNTING - LOCO LOAD/TESTED,NOT FAULTED.'.
**08.09.1990** Service defect: 'TS - ALTERNATOR - WINDING TO FRAME - ALTERNATOR REPLACED.'.
**16.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**25.09.1990** Service defect: 'B - AUXILLARY MACHINES - FRIDGE FAILURE - REMOVED & ICE/BOX FITTED.'.
**06.10.1990** Service defect: 'UN - BOGIE - 5 BAGS EACH CASE-NOO.2 10 BAGS.LUGS NO.2 GEAR CASE RE-WELDED'.
**31.10.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND.FAULT -'.
**31.10.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**03.11.1990** Service defect: 'UN - AIR CONDITIONING - UNIT NOT COOLING - UNIT REGASSED,CHECKED OK.'.
**03.11.1990** Service defect: 'UN - AUXILLARY MACHINES - WATER/COOLER FAULT - UNIT REGASSED,CHECKED OK.'.
**15.11.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 7 BAGS(4&5),8 BAGS(3&6),9 BAGS(1&2).'.

**20.11.1990** Service defect: 'UN - DYNAMIC BRAKE - NO EXTENDED RANGE - DC1 E&F INT/LOCKS REPAIRED.'.
**20.11.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DROPPING LOAD - T.H.&S.E.MODULES REPLACED.(HUNTING)'.
**20.11.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN FAILURE - NO.1 RAD/FAN & 2 NO.FUSES & FAN PLUG REPLACED. - (BEARING FAILURE)'.
**21.12.1990** Service defect: 'TS - BROKEN VALVE - DROPPED VALVE - NO.12 ASSEMBLY REPLACED.'.
**21.12.1990** Service defect: 'TS - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & ALL FILTERS CHANGED.'.
**11.02.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1),5 BAGS(2-6).'.
**26.02.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 7 BAGS ADDED TO EACH G/CASE. WORN BLOCKS - FULL SET BRAKE/BLOCKS FITTED,BRAKES ADJUSTED.'.
**20.03.1991** Service defect: 'UN - ENGINE LINER - NO13 LINER CHANGED 'B'END.'.
**20.03.1991** Service defect: 'UN - ENGINE PISTON - NO 13 PISTON CHANGED 'B' END.'.
**20.03.1991** Service defect: 'UN - GENERAL - WINDSCREEN WIPER REPLACED.'.
**20.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED & TESTED OK,ODOMETER ADJUSTED.'.
**08.05.1991** Service defect: 'UN - OTHER BODY REPAIRS - DAMAGED COW/CATCHER - TEMP.REPAIRED,RELEASED TO TRAFFIC. - (HIT PLATFORM AT BROKEN/HILL)'.
**30.05.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 30 T/MOTOR BRUSHES CHANGED OUT,A/C VERY SHORT.'.
**03.06.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL REPAIRED,EARTH IN AUX GEN.'.
**03.06.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - 'A'END F/HEADLIGHT SWITCH REPLACED, A/C UNSAFE.'.
**10.07.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - BRUSH CHANGED NO 1 TRACTION MOTOR 9 BRUSHES CHANGED NO 5 TRACTION MOTOR A/C BROKEN AND ALL PIGTAILS OFF.'.
**25.07.1991** Service defect: 'A - GENERAL - 'A'END OBS BLIND REPAIRED.'.
**25.07.1991** Service defect: 'A - CAMSHAFT LOBES & ROCKER ROLLERS TO MONITOR, A/C'.
**25.07.1991** Service defect: 'A - WEAR.25/7.'.
**31.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - COWCATCHER REPAIRED,REPLACED & PAINTED.'.
**06.08.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - P3 ARC CHUTE RE-LOCATED, A/C NO POWER AFTER TRANSITION.'.
**17.09.1991** Service defect: 'C - MAIN GENERATOR - CLEANED MAIN GEN RECTIFIER PANEL & SLIPRING BRUSHHOLDERS.'.
**17.09.1991** Service defect: 'C - RADIATOR/PRESSURISING FAN - NO 2 RAD FAN FUSES REPLACED,A/C BLOWN.NO 2 RAD FAN CONTACTORREPLACED,A/C WELDED IN.2ND HAND MOVEABLE CONTACT TIPS FITTED'.
**16.10.1991** Service defect: 'UN - VIGILANCE - VIGILANCE OVER/CHARGING - PRESSURE SWITCH REPLACED.'.
**14.11.1991** Service defect: 'UN - AIR CONDITIONING - AIR/CON REPAIRS COMPLETED.'.
**21.11.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - HOT LUG IN REAR OF ELECT CABINET CHANGED.5 STEP & COUPLING LIGHTS CHANGED,A/C EXPLODED.'.
**21.11.1991** Service defect: 'A - GENERAL - OBS/SIDE WINDOW REPAIRED.'.
**21.11.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - NO'S 1 & 8 TEST COCKS REPLACED,A/C LEAKING.'.
**21.11.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - 35 T/M BRUSHES CHANGED.'.
**04.12.1991** Service defect: 'UN - AIR CONDITIONER UNIT REMOVED.REMOVE CONDENSING SET'.
**04.12.1991** Service defect: 'UN - TO REPLACE MOTOR & COMPRESSOR.4/12.'.
**18.12.1991** Service defect: 'SW - AIR CONDITIONING - COMP UNIT CHANGED OVER - TESTED, WORKING OK.AIR OFF EVAP,7C ONLY 'A'END WORKING.'.
**18.12.1991** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - 'A'END CONTROL & FUEL PUMP SWITCH CHANGED.CHECKED OK.'.
**18.12.1991** Service defect: 'SW - 'B'END AIR CON DISCONNECTED,A/C FAULTY HOSES.18/12'.
**18.12.1991** Service defect: 'SW - .'.
**23.12.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON. REPAIRED.'.
**17.01.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - L6 BRAKE CYLINDER CHANGED.'.
**30.01.1992** Service defect: 'TS - TRACTION MOTOR EARTH - NO 2 T/MOTOR REPLACED,A/C EARTH ON NO 2 INTERPOLES.IN-81E1-1241.OUT- 69E1-1518.'.
**04.02.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS -'.
**12.02.1992** Service defect: 'TS - BODY REPAIRS - ACCIDENT - COW CATCHER REPAIRED.OK. STRAIGHTENED THROAT PLATE.OK. PAINT COWCATCHER.OK.'.
**19.02.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - PIGTAILS HANGING ON T/M.OK.'.
**03.03.1992** Service defect: 'TS - NO FAULT FOUND - ALL MODULES CHECKED.LOCO MEGGERED IN STOP AND IN MOTION OK.'.
**26.03.1992** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NOS.2 AND 5 WHEELSETS REPLACED.'.
**26.03.1992** Service defect: 'TS - ELECTRICAL MISC. MODULES - DE MODULE REPLACED.A/C TAKEN FOR AL24.'.
**26.03.1992** Service defect: 'TS - FUEL SYSTEM LINES - BROKEN FUEL PIPE REPAIRED.'.
**26.03.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - 'B' END AUTO BRAKE VALVE CHECKED OK.'.
**26.03.1992** Service defect: 'TS - TRACTION MOTOR - NOS.2 AND 5 T/MS REPLACED.'.
**08.04.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO2 W/SET CHANGED.LOCO MOVEMENT TESTED IN POWER & DYN/BRAKE IN YARD OK.'.
**08.04.1992** Service defect: 'UN - TRACTION MOTOR - NO 2 T/MOTOR REPLACED,IN - 66A11470.OUT - 67D-C163.'.
**20.05.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 2 WICKS REPLACED,A/C DIRTY.'.

**20.05.1992** Service defect: 'A - WHEELS TO MONITOR,A/C L1#24 ON FLANGE.20/5.'.
**05.06.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - EARTH FAULT RECTIFIED, CABLE REPAIRS COMPLETED, SHORT FOUND IN MAIN ALTERNATOR TERMINAL BOX RESULTING IN INBALANCE IN'.
**13.08.1992** Service defect: 'D - CONTACTOR MISCELLANEOUS - HOT LUG REPLACED ON GFA CONTACTOR.'.
**13.08.1992** Service defect: 'D - COOLING SYSTEM - COOLANT CHANGED.'.
**13.08.1992** Service defect: 'D - ENGINE - AIR INTAKE FILTERS REPLACED.'.
**14.10.1992** Service defect: 'TS - GENERAL SHUTDOWN - TURBO TESTED FOR L.O.P. SHUTDOWN.MICHA PRESSURE TESTED OK, A/C LOCO SHUTTING DOWN.'.
**05.11.1992** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATORS REPLACED.'.
**05.11.1992** Service defect: 'A - GENERAL - ENGING ROOM DOOR REPAIRED.'.
**05.11.1992** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - COUPLER LIFT RODS REPAIRED.'.
**20.11.1992** Service defect: 'UN - BOGIE - BOGIE CHANGE COMPLETED. T/M CONNECTION COMPLETED. WOODEN CLEATS REPLACED. STEPS REPOSITIONED.'.
**16.12.1992** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN SHAFT FITTED & END FLOAT ADJUSTED OK.'.
**16.12.1992** Service defect: 'UN - ENGINE - AFTERCOOLERS FITTED.'.
**16.12.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGE COMPLETED, A/C TURBO BLADE RETAINING CLIPS FAILED CAUSING BLADES TO MOVE FROM POSITION. TURBO FILTER CHANGE'.
**23.12.1992** Service defect: 'UN - BOGIE - L1 AXLE BOX WEAR PLATE REPLACED. L1 & R1 RESILIENT THRUST PADS REPLACED & LATERALS CHECKED.'.
**05.02.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - NOS L3,L5,R1 & R5 WICKS REPLACED.'.
**05.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'A'END PACKAGE BOLT REPLACED, A/C BROKEN.'.
**05.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDERS CHANGED & CHECKED OK. AIR LEAK AT 'A'END FLOW METER REPAIRED.'.
**04.03.1993** Service defect: 'UN - AIR CONDITIONING - AIR COND REPAIRED, TESTED OK.'.
**04.03.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR BANKS CHANGED.'.
**04.03.1993** Service defect: 'UN - FUEL SIGHT GLASS - FUEL TANK SIGHT GLASS OBS/SIDE REPLACED.'.
**04.03.1993** Service defect: 'UN - VIGILANCE - VIGILANCE ADJUSTED CHECKED OK.'.
**26.03.1993** Service defect: 'UN - AIR CONDITIONING - AIR/COND REPAIRS COMPLETED.'.
**26.03.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - PCS WIRING REPLACED.'.
**28.04.1993** Service defect: 'A - BOGIE - A END CARRIER PLATE BOLTS REPLACED,A/C LOOSE.NO 3 & 6 G/CASEBOLTS REPAIRED,A/C LOOSE. NO 6 G/CASE SEAL CLAMP REPLACED,'.
**28.04.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1 & R5 WICKS CHANGED & OIL CHANGED.'.
**28.04.1993** Service defect: 'A - CAM SHAFT - CAMSHAFT 1-4 LOBES REPLACED, A/C DAMAGED.'.
**28.04.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - SPEEDO TRANSMITTER REPLACED, A/C DISINTERGRATED INTERNALLY. A END D/SIDE HEATER 2 BARS CHANGED.'.
**28.04.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS BURNT WIRING - TB70-E6 WIRE(HS) RELUGGED,A/C BURNT.'.
**28.04.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO 3 RAD FAN REPLACED,A/C TIGHT BEARING. DIRECTION TESTED OK'.
**28.04.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - NO 3,4 & 6 T/MOTOR BRUSH HOLDERS REPLACED, A/C LOOSE CELLS.'.
**05.05.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPAIRED, A/C NOT WORKING.'.
**19.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE LEAK REPAIRED.'.
**08.06.1993** Service defect: 'UN - ENGINE - NO 16 HEAD,PISTON & INJECTOR REPLACED,A/C DROPPED VALVE.LOCOTOPPED UP WITH WATER & CHECKED OK.'.
**13.07.1993** Service defect: 'TS - MECHANICAL EQUIPMENT BRAKE VALVE - AUTOMATIC BRAKE VALVE REPLACED.'.
**13.07.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER REPAIRED.'.
**13.07.1993** Service defect: 'TS - TRACTION MOTOR - NO 5 T/MOTOR HOOKED & VEED OUT, NO 1 & 3 BRUSH HOLDERS REPLACED,A/C GR'S.'.
**13.07.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - ALL BRUSHES ON ALL T/M'S REPLACED,A/C VERY SHORT.'.
**20.07.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO OIL FILTER GASKET REPLACED.'.
**20.07.1993** Service defect: 'C - LUBRICATING SYSTEM - ALUMINIUM WASHERS REPLACED ON OIL PUMP.'.
**20.07.1993** Service defect: 'C - LUBRICATING SYSTEM OIL COOLER - OIL COOLER VENT PIPE BRAZED.'.
**20.07.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - BRUSH HOLDER (3.00 O'CLOCK)LOOKING AT COMM END,CORRECTED,A/CBEYOND REGULATED DISTANCE LIMIT. CHECKED OK.'.
**07.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED, A/C CRACKED.'.
**07.09.1993** Service defect: 'UN - HEAT SHIELD UNDER D/B FAN,(TURBO END) TO WELD UP,'.
**07.09.1993** Service defect: 'UN - A/C CRACKED.7/9.'.
**21.10.1993** Service defect: 'A - GENERAL - HAND BRAKE CHAIN REPAIRED, A/C BROKEN.'.
**21.10.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CARRIER PLATE TIGHTENED.'.
**21.10.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - T/MOTOR BRUSHES CHANGED ON ALL T/MOTORS.'.

**AL 20**

Details: locomotive 'AL 20 S' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $691470
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 10
**Date Built:** 10.11.1976
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** W/O 20.11.93;SOLD MK 01.10.93
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 10.09.1993 | | |
| Last Lift: | 10.03.1989 | | |
| SW Service Mileage: | 736414 KM | SW Service Date: | 05.02.1993 |
| A Service Mileage: | 836390 KM | A Service Date: | 22.06.1993 |
| B Service Mileage: | 781332 KM | B Service Date: | 03.04.1993 |
| C Service Mileage: | 667951 KM | C Service Date: | 30.09.1992 |
| D Service Mileage: | 891682 KM | D Service Date: | 10.09.1993 |
| E Service Mileage: | 527441 KM | A Service Date: | 24.12.1991 |
| F Service Mileage: | 0 KM | A Service Date: | 10.03.1989 |
| WT Service Mileage: | 808729 KM | WT Service Date: | 19.05.1993 |
| US Service Mileage: | 867277 KM | A Service Date: | 10.08.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**07.07.1989** Service defect: 'A - TRACTION MOTOR BRUSHES - FRAYED & BROKEN PIG/TAILS - BRUSHES IN NO.3 T/MTR.REPLACED. (PACIFIC T/MTRS.)'.
**18.08.1989** Service defect: 'UN - FUEL SYSTEM - FUEL FILTERS CHANGED A/C FUEL IN BY PASS VALVE.'.
**18.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - 'A' END O/S & D/S WIPERS REPAIRED.'.
**21.08.1989** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - NO EARTH FOUND MEGGERED TO 10.OHMS.'.
**31.08.1989** Service defect: 'TW - BOGIE - LUBE CHECK - 5 BAGS OF CRATER ADDED TO EACH GEAR CASE.'.
**31.08.1989** Service defect: 'TW - ELECTRICAL MISC. GROUND RELAY - PIG TAILS ON NO.6 MOTOR CHANGED.'.
**07.09.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS BURNT WIRING - PHASE CONNECTION BURNT OFF.NO.3 RADIATOR FAN CONTACTOR RELUGGED,CIRCUIT CHECKED OK.'.
**15.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - BLOWN GASKET - SANDER RELAY VALVE GASKET REPLACED.'.
**26.09.1989** Service defect: 'UN - ENGINE WATER LEAK - LOSING COOLING WATER - NO.15 JUMPER/LINE REPLACED.(SPLIT)'.
**16.10.1989** Service defect: 'A - BOGIE - * BOOKED ON 26/9,WHEELS CHECKED OK 4/10 *'.
**16.10.1989** Service defect: 'A - BOGIE - WHEEL PROFILE - COMPLETED BUT NO RECORD OF PROFILE. - (NO.1 & 4 WHEELS CONDEMNED FLANGES)'.
**03.11.1989** Service defect: 'UN - GENERAL - THROUGH WORKING MODIFICATIONS COMPLETED.'.
**10.11.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 4 BAGS OF CRATER ADDED TO ALL GEAR CASES.'.
**24.11.1989** Service defect: 'B - ENGINE - CAMSHAFT DOWELS MISSING - CAMSHAFT DOWEL REPLACED ON NO1-4 SEGMENT ACESSORY END JOIN. ALL OTHER DOWELS CHECKED AND SOME'.
**24.11.1989** Service defect: 'B - ENGINE - LOOSE. LOOSE DOWELS TIGHTENED.'.
**24.11.1989** Service defect: 'B - TO BE PROFILE A/C SHARP FLANGES 1,3&5 WHEELS.'.
**24.11.1989** Service defect: 'B - (24/11)'.
**09.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**24.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**05.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**12.01.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**31.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**02.02.1990** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - AIR/GAP ON STICK-IN RELAY ADJUSTED. (CUT/OUT) - VIGILANCE OPERATION CHECKED OK.'.
**08.02.1990** Service defect: 'WT - BRAKE ADJUST MILE END'.
**09.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED EX WTM.'.
**25.02.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH GEARCASE.'.
**25.02.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT - TH38 WIRE EARTHING IN CANNON PLUG AT DB HATCH - REPAIRED, CHECKED OK - CAUSED CONT CCB TRIP.'.
**27.02.1990** Service defect: 'UN - GENERAL - 'A'END DRIVERS SLIDING WINDOW REPLACED.'.
**09.03.1990** Service defect: 'B - GENERAL - SPEEDO - SPEEDO UNIT REPLACED A/C COMMUTATOR FAULTY.'.
**23.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(6),5 BAGS(3),OTHERS CHECKED OK.'.
**23.03.1990** Service defect: 'TW - OTHER BODY REPAIRS - WINDOW BROKEN - D/SIDE WINDOW REPLACED.'.
**29.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(1&4),4 BAGS(2,3,5&6).'.
**29.03.1990** Service defect: 'TW - OTHER BODY REPAIRS - LOCK U/S - 'A'END O/SIDE DOOR MECHANISM REPLACED.'.
**02.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE FAULT - FULL BRAKE TEST CARRIED OUT, UNABLE TO FAULT'.
**07.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTER CHANGE COMPLETED. DILUTION CHECK - COMPLETED.(NO FUEL LEAK DETECTED)'.
**11.04.1990** Service defect: 'D - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**23.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - O/CHARGING BRK/PIPE - 'B'END AUTO/BRAKE VALVE REPLACED.'.
**26.04.1990** Service defect: 'UN - MECHANICAL

MAINTENANCE - AIR BRAKE - BRK/PIPE O/CHARGING - 'A'END AUTO/BRAKE VALVE CHANGED.'.

**07.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(1),5 BAGS(3),6 BAGS(6),NIL(2,4&5).'.

**05.06.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1,3&6),5 BAGS(2,4&5).'.

**12.06.1990** Service defect: 'UN - OTHER BODY REPAIRS - THRU RUNNING MODS.- COMPLETED.'.

**20.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.

**23.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**23.06.1990** Service defect: 'TW - VIGILANCE - VIGILANCE FAULT - STICK/IN RELAY REPAIRED.'.

**08.07.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - HOT PLATE WIRING REPAIRED A/C BURNT.'.

**12.07.1990** Service defect: 'UN - GENERAL - COW CATCHER REMOVED.TO BE REPLACED AT PT AUGUSTA.'.

**12.07.1990** Service defect: 'UN - COW CATCHER TO REPLACE A/C REMOVED.'.

**15.07.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH CASE.'.

**23.07.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2,5&6),6 BAGS(3&4).'.

**23.07.1990** Service defect: 'B - OTHER BODY REPAIRS - COW/CATCHER - 'B'END STRAIGHTENED.'.

**06.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - 30MM WHEEL & FLANGE (8) - NO.1 WHEEL SET REPLACED.'.

**07.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L3 WICK CHANGED.'.

**10.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L3 WICK CHECKED OK.'.

**19.08.1990** Service defect: 'UN - BOGIE - WEAR PLATE - NO.6 AXLE/BOX WEAR PLATES RE-WELDED. LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**19.08.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS - R.6 SANDER VALVE REPLACED. - L.3 SANDER HOSE REPLACED.'.

**06.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MODIFICATION - MODIFICATION TO MODIFICATION TO COMPLETE. - (MODIFIED IND/RELEASE PIPE TO BE FITTED)'.

**06.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - PILOT DAMAGE - 'B'END PILOT STRAIGHTENED & REPLACED. - (DAMAGED ON TURN/TABLE AT LITHGOW)'.

**11.09.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. SEIZED ADJUSTER - L.1 SLACK/ADJUSTER REPLACED.'.

**11.09.1990** Service defect: 'A - OTHER BODY REPAIRS - BENT PILOT - 'A'END PILOT STRAIGHTENED. WIPER MOTOR - 'B'END O/SIDE WIPER MOTOR REPLACED.'.

**17.09.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - CREW CALL MOD - COMPLETED.'.

**17.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - WINDSCREEN WIPER - REPLACED.(D/SIDE 'B'END)'.

**23.09.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - DG MODULE REPLACED,DYNAMIC TESTED OK.'.

**27.09.1990** Service defect: 'UN - BOGIE - BOGIES CHECKED OK IN DEPOT.'.

**30.09.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - DYNAMIC FAN BRUSH/HOLDER REPLACED.'.

**30.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - VALVE FAULTY - AUTO/BRK.VALVE REPLACED.'.

**21.12.1990** Service defect: 'CA - BOGIE - O/HAULED BOGIES - INSTALLED.('A'BOGIE AL113,'B'BOGIE CL105)'.

**21.12.1990** Service defect: 'CA - OTHER BODY REPAIRS - COLLISION - 'A'END D/SIDE CAB RE-BUILT.'.

**07.01.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT -'.

**21.01.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - # 1 & 4 T/MOTORS CLEANED 'XE' WIRE ON B INTERLOCK OF P/R RELAY INSTEAD OF D1 INTERLOCK CONNECTION LOAD TESTED O.K.'.

**15.02.1991** Service defect: 'C - DYNAMIC BRAKE - DYN/BRAKE FAN REPLACED. A/C FLASHOVER.'.

**15.02.1991** Service defect: 'C - OTHER BODY REPAIRS - DRIVERS & OBS 'A' END QUARTER VENT WINDOWS REPLACED.'.

**14.03.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK ON TRIAL RUN.'.

**26.03.1991** Service defect: 'UN - CONTACTOR INTERLOCKS - FOWARD MICRO INTERLOCK 'A'END REPLACED.REVERSE MICRO INTERLOCK 'B'END REPLACED.'.

**09.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER REPAIRED,TO W.T.M.'.

**06.05.1991** Service defect: 'A - MAIN GENERATOR - SLIP RING INSPECTED -VERY LITTLE BOUNCE ON BRUSHES -NO FLATSMINOR PITTING ON SLIP RING SURFACES,OK TO WORK.'.

**06.05.1991** Service defect: 'A - MAIN GENERATOR BRUSHES - ARIO BRUSHES REPLACED,A/C REACHED CONDEMNED LIMIT.'.

**06.05.1991** Service defect: 'A - 'A'END OBS SEAT FOR REPADING.'.

**10.05.1991** Service defect: 'UN - BOGIE - THRUST PLATE REPLACED,A/C U/S. ALL RESILIENT RUBBERS RENEWEDA/C ROUGH RIDI'.

**24.05.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC INTERMITTANT - TH86 WIRE REPAIRED.'.

**24.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR TAP - 'A'END CONTROL PIPE TAP & HOSES REPLACED.'.

**04.07.1991** Service defect: 'TS - WHEELSLIP - CONTINUOUS WHEEL/SLIP - LOCO SENT TO M.P.C.'.

**04.07.1991** Service defect: 'TS - RETURN TO M.P.C. FOR REPAIRS.(CONTINUOUS W/SLIP)'.

**08.07.1991** Service defect: 'B - ENGINE - CAMSHAFT SEGMENT 9-12 REPLACED, A/C INJECTOR LOBE HAD FLAT.'.

**08.07.1991** Service defect: 'SW - WHEELSLIP - WHEELSLIP CHECKED 700AMPS IN WET WEATHER CONDITIONS,NO WHEELSLIP'.

**11.09.1991** Service defect: 'UN - ENGINE - POWER PACK REPLACED.'.

**11.09.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 16 HEAD GASKETS CHANGED.'.

**20.09.1991** Service defect: 'A - ELECTRICAL MISC. LOOSE CONNECTIONS - 5 BRUSH HOLDERS REPLACED, A/C SPRING ASSEMBLY LOOSE.3 IN T/M3,1 IN T/M 5 & 1 IN

T/M 6.'.

**20.09.1991** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO EXCHANGE BELLOW REPLACED.'.

**20.09.1991** Service defect: 'A - GENERAL - OBS/SIDE 'A'END WINDSCREEN WIPER FITTING REPLACED.'.

**20.09.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - 50 BRUSHES CHANGED,SOME WITH PIGTAILS TO SHORT.'.

**15.10.1991** Service defect: 'UN - ENGINE - CRACKED BLOCK - NO.11,12,13,14&15 TEST/COCK TUBES RE-WELDED. - CRACK TESTED OK.'.

**16.10.1991** Service defect: 'UN - VIGILANCE - VIGILANCE PROBLEM - PRESSURE SWITCH REPLACED. - RE/SET CABLE REPLACED.'.

**25.10.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.6 T/MOTOR CLEANED/UP A/C FLASH/OVER.'.

**25.10.1991** Service defect: 'UN - ROUGH/RIDING REPAIRS AT M.P.C.'.

**01.11.1991** Service defect: 'SW - BOGIE MAINTENANCE - SPRINGS - SPRINGS ANDSHOCKERS CHECKED O/K.'.

**13.11.1991** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYN BRAKE GRID REPLACED,A/C BLOWN.'.

**13.12.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPLACED BRUSHHOLDER AT BASE OF SPEEDO DRIVE AXLE.BRUSHES REPLACED.'.

**24.12.1991** Service defect: 'E - MECHANICAL MAINTENANCE - SPEEDOMETER - 'A'END SPEEDO REPAIRED.'.

**31.01.1992** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER REPAIRED.'.

**21.02.1992** Service defect: 'A - ALTERNATOR - ALTERNATOR SLIP RINGS CRACKED ,REPAIRED OK.'.

**21.02.1992** Service defect: 'A - ELECT. MISC. - GAUGES & INSTRUMENTS - BURNT GAUGE LIGHT WIRES REPAIRED.'B END'.'.

**21.02.1992** Service defect: 'A - GENERAL - R2 SLACK ADJUSTER CHANGED.'.

**21.02.1992** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - ONE SHOCKABSORBER AND RUBBERS REPLACED.'.

**21.02.1992** Service defect: 'A - E?ROOM DOOR SEALS TO REPAIR.'.

**11.03.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL SLIP PROBLEM REPAIRED.'.

**11.03.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - ENGINE ROOM WIRING REPAIRED OK.'.

**13.03.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**24.03.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - TR MODULE EXCHANGED WITH AL19'S MODULE.-A/C AL19 HAD NO BACKWARD TRANSITION.'.

**02.04.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - SE10 ORIGINAL MODULE REPLACED.'.

**02.04.1992** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE AND 26D CONTROL VALVE REPLACED.-NO.19 CHECKVALVE CLEANED UP.'.

**03.04.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION TESTED AND FOUND OK.'.

**03.04.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK ON PIPE WELDED AND REPAIRED.'.

**07.04.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FAN EX PT AUGUSTA FITTED , CONNECTIONS REVERSED & TESTEDOK.'.

**23.04.1992** Service defect: 'TS - BOGIE - R1 SLACK ADJUSTER REPLACED,A/C SEIZED.'.

**23.04.1992** Service defect: 'TS - JUMP CABLE REQ'D.NIL STOCK.23/4.'.

**11.05.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - STATIC TRANSITION TEST OK.T.R.MODULE REPLACED.LOCO OK ON TRIAL RUN,A/C NO TRANSITION.'.

**19.05.1992** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDS REPAIRED,A/C NOT WORKING CAUSING WHEELSLIP.'.

**22.05.1992** Service defect: 'TS - WHEELSLIP - TRIAL RUN,A/C WHEELSLIP - TRIAL RUN OK.'.

**11.06.1992** Service defect: 'TS - TRACTION MOTOR - NO.1 T/M CHANGED.'.

**16.07.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - SHUTTING DOWN OF LOCO WITH GF SWITCH ON,REV IN NEUTRAL AND THROTTLE IN NOTCH 1OR2 OCCURS AS A RESULT OF LOW IDLE MODS.'.

**16.07.1992** Service defect: 'A - BOTH PACKAGES TO MONITOR-POSSIBLE CHANGE NEXT'.

**16.07.1992** Service defect: 'A - SERVICE.16/7/92.'.

**11.09.1992** Service defect: 'UN - ENGINE WATER LEAK - HOSE REPLACED UNDER HEAT EXCHANGER,TESTED OK,A/C LEAKING.'.

**30.09.1992** Service defect: 'C - FUEL SYSTEM - NO 1 FUEL LINKAGE CLIP REPLACED, A/C MISSING. FUEL SHUT OFF PIPE REPAIRED.'.

**15.10.1992** Service defect: 'TS - AIR CONDITIONING - AIR/CON TESTED OK.'.

**15.10.1992** Service defect: 'TS - ENGINE WATER LEAK - FLEXIBLE PIPE REPLACED,A/C BROKEN,CAUSING WATER LEAK. ENGINEWATER FILLED.'.

**03.11.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO SCREEN REPLACED,TURBO CHECKED OK, A/C BLOWING BLACK SMOKE.'.

**03.11.1992** Service defect: 'TS - EXHAUST MANIFOLD EXPANSION JOINT TO MONITOR, A/C'.

**03.11.1992** Service defect: 'TS - CRACKED.3/11.'.

**09.11.1992** Service defect: 'TS - TRACTION MOTOR - NO 3 T/MOTOR REPLACED, A/C BINDER LIFTING. T/M IN-80C1-1618'.

**14.11.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 13 CYL HEAD REPLACED, A/C WATER LEAK FROM PLUG.'.

**14.11.1992** Service defect: 'UN - EXHAUST - EXHAUST JOINT REPLACED, A/C CRACKED.'.

**18.11.1992** Service defect: 'TS - ENGINE - O/SPEED LINKAGE SHORTENED A/C TOO LONG. O/SPEED NOW PUSHING O/SPEED BLOCK TO CORRECT POSITION. ROCKER GEAR REFITTED &'.

**26.11.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR HEADER TANKS ASSEMBLED & RADIATORS INSTALLED IN LOCO. LOCO CHECKED OK FOR WATER LEAKS.'.

**26.11.1992** Service defect: 'UN - EXHAUST - EXHAUST

GASKET FITTED.'.
**26.11.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FANS TESTED OK.'.
**22.01.1993** Service defect: 'A - BOGIE - L2 SLACK ADJUSTER CHANGED A/C SEIZED.'.
**22.01.1993** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - 2 PEDESTAL LINERS CHANGED ON NO.2 WHEELSET.'.
**22.01.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3,L3,R4,L4,L5,R5 WICKS CHANGED.'.
**22.01.1993** Service defect: 'TS - TRACTION MOTOR - NO.2 T/M CHANGED A/C BURNT COMMUTATOR.'.
**22.01.1993** Service defect: 'A - NO. 11,12,13,14,15 TEST COCK HOUSING TO HEAD'.
**22.01.1993** Service defect: 'A - WELDS CRACKED.26/1/1993.'.
**05.02.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - UNCOUPLING RODS REPAIRED.'.
**05.02.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LINES REPAIRED.'.
**05.02.1993** Service defect: 'SW - OTHER BODY REPAIRS - COWCATCHER REPAIRED.'.
**03.04.1993** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - GOVERNOR PLUG RENEWED A/C WIRING U/S.'.
**03.04.1993** Service defect: 'B - LUBRICATING SYSTEM - OIL LEAK - PIPE TO STRAINER BOX RESEALED.'.
**03.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - 'A' END TRAIN PIPE COCK REPLACED. BARREL UNION BEHIND COW CATCHER TIGHTENED A/C LOOSE.'.
**22.06.1993** Service defect: 'A - GENERAL - 'A'END OBS/SIDE MIRROR REPLACED.'.
**22.06.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO 2 RAD FAN REPLACED,A/C OPEN CIRCUIT. NO 2 RAD FAN CONTACTOR REPLACED EX AL 21.'.
**10.08.1993** Service defect: 'UN - TRACTION MOTOR - NO 1 T/M WASHED OUT.'.
**10.08.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES IN NO'S 1,3,5 & 6 T/MOTORS CHANGED.'.
**10.08.1993** Service defect: 'UN - EXHAUST JOINT BETWEEN NO 6 & 7 TO CHANGE, A/C'.
**10.08.1993** Service defect: 'UN - CRACKED.10/8.'.
**10.09.1993** Service defect: 'D - BOGIE - R3 PEDESTAL LINER CHANGED.'.
**10.09.1993** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L1,L2,R3 & R5 WICKS CHANGED.'.
**10.09.1993** Service defect: 'D - ELECTRICAL MAINTENANCE -WIRING - WIRING FAULT FOUND ON FC2 INTERLOCK, WIRING FAULT RECTIFIED,CHECKED OK.'.

**AL 21**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**11.07.1989** Service defect: 'WT - BRAKES TO ADJUST'.
**19.07.1989** Service defect: 'B - BATTERY MAINTENANCE - DEAD CELLS - 1 NO.STARTING BATTERY REPLACED.'.
**11.08.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - ELECTRICAL BUTTON REPLACED ON VIGILANCE.'.
**28.08.1989** Service defect: 'WT - SENT TO MILE END DIESEL DEPOT FOR BRAKE ADJUSTMENT'.
**29.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**04.09.1989** Service defect: 'UN - BOGIE - LUBE CHECK - NO CRATER REQUIRED.'.
**04.09.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON WHEELS CHECKED OK.'.
**04.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FOREIGN OBJECT BEHIND CIRCUIT BREAKER TRIPPED BREAKER.'.
**18.10.1989** Service defect: 'UN - GENERAL ACCIDENT - COLLISION - 'A'END COW/CATCHER RE-BUILT A/C REMOVED PKN.'.
**18.10.1989** Service defect: 'UN - TO BE PROFILED A/C NO.6 WHEEL FLAT. (18/10)'.
**23.10.1989** Service defect: 'UN - BOGIE - BRAKES TAKEN UP A HOLE ON FRONT BOGIE.'.
**02.11.1989** Service defect: 'TS - ENGINE LINER - NO.14 POWER ASSEMBLY REPLACED A/C SPLIT LINER.'.
**10.11.1989** Service defect: 'UN - '3'RESISTORS BLOWN 'A'CONTROLLER.'.
**11.11.1989** Service defect: 'UN - DYNAMIC BRAKE - 3. BRAKE RHEOSTAT RESISTORS OPEN CIRCUIT,REPLACED & TESTED OK.'.
**21.11.1989** Service defect: 'D - BOGIE - BOGIE CHANGE COMPLETED DUE TO CONDITION OF WHEELS.'.
**28.11.1989** Service defect: 'TS - ENGINE WATER LEAK - LOSS OF COOLING WATER - L/H LOWER AFT/COOLER PIPE REPLACED. (CRACKED PIPE)'.
**22.12.1989** Service defect: 'TS - ENGINE - EXCESSIVE RING LAND CLEARANCES - ALL POWER ASSY'S REPLACED WITH 16 NEW LINERS, 16 NEW PISTONS, 8 NEW CYL HEADS. THE'.
**22.12.1989** Service defect: 'TS - ENGINE - OTHER 8 CYL HEADS REUSED. CON/ROD BEARINGS RE-USED. (1,000,000 KM POWER ASSYS.INSTALLED)'.
**22.12.1989** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - BLOWING OIL OUT OF EXHAUST - O/HAULED TURBOCHARGER INSTALLEDSER NO.87-8792.EX.SS TURBO REMOVED.(COLLAPSED ROTATING ASSY)'.
**29.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH GEARCASE.'.
**25.01.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND.- ??????????????????????????.'.
**25.01.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT - CABLES RE-INSULATED.(RUBBED THRU ON WALL) - (CABLES TO AUX/GEN)'.
**25.01.1990** Service defect: 'UN - OTHER BODY REPAIRS - DOOR REPAIR - 'A'END D/SIDE DOOR LATCH REPAIRED.'.
**25.01.1990** Service defect: 'UN - SPEEDO FLUCTUATING 10 KM/H. (25/1)'.
**29.01.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**29.01.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FLUCTUATING - COMM.ON DRIVE SHAFT LOCKED/UP.(SLIPPING'.
**08.02.1990** Service defect: 'UN - AIR CONDITIONING -

FAULTY SWITCH - 'B'END AIR/COND SWITCH REPLACED.'.

**08.02.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO INSTALLATION COMPLETED.'.

**04.03.1990** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 7 BAGS OF CRATER ADDED TO ALL GEAR CASES.'.

**14.03.1990** Service defect: 'B - TO BE PROFILED BEFORE NEXT SERVICE.(R.1 (8) (14/3)'.

**26.03.1990** Service defect: 'UN - ENGINE - HUNTING - FUEL FILTERS CHANGED/OUT.'.

**03.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK -'.

**03.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - FUEL TANK LEAK -'.

**04.04.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - R.1 FLANGE (8) - FULL PROFILE COMPLETED.'.

**04.04.1990** Service defect: 'WT - BR KES TO ADJUST'.

**05.04.1990** Service defect: 'UN - BOGIE - EXCESS TRAVEL - BRAKES ADJUSTMENT COMPLETED AFTER PROFILE. - BRAKES CUT BACK IN A/C ISOLATED.'.

**05.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**08.04.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - 2 NO.FUSES REPLACED,FAN ?? CHECKED OK. - MEGGERED 20 MEGG/OHMNS.'.

**08.05.1990** Service defect: 'A - AIR CONDITIONING - COUPLING FAULT -'.

**08.05.1990** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATOR LEAK - O/SIDE NO.3 RADIATOR REPLACED.'.

**24.05.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,3,4&6),8 BAGS(5).'.

**24.05.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.5 T/MOTOR REPLACED.(ARMATURE TO FRAME - T/MOTOR CHANGED AT PETERBOROUGH.'.

**26.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO5 WICK CHECKED OK.NO6 LHS WICK FILLER CAP REPLACED.'.

**28.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ENGINE ROOM LIGHT FITTINGS REPAIRED A/C HANGING DOWN.'.

**28.05.1990** Service defect: 'UN - FUEL SYSTEM - SHUTTING DOWN - FUEL DROPPED OUT & FRESH FUEL PUT IN. ALL FILTERS CHANGED A/C SUSPECTED FUEL FAULT (DIRTY).'.

**01.06.1990** Service defect: 'UN - ENGINE - ENGINE AND TURBO INSPECTION COMPLETED OK. ENGINE LOAD TESTEDTO 3,080 H.P.'.

**01.06.1990** Service defect: 'UN - ENGINE - ENGINE REPAIRS - L.H. AFTER COOLER DUCT REPLACED A/C SPLIT. AFTER COOLER ALSO REPLACED. ENG AIR BOX CLEANED.'.

**22.06.1990** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - SCRAPPING NOISE - TURBO REPLACED.(IMPELLOR DAMAGE SLIGHT) - TURBO INSTALLED (87-08660 S&S)'.

**22.06.1990** Service defect: 'TS - TURBO AGASTAT TO REPLACE WHEN LOCO AVAILABLE.(22/6'.

**01.07.1990** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - TURBO LUBE PUMP TIME DELAY RELAY REPLACED.'.

**02.08.1990** Service defect: 'UN - ALTERNATOR - ALTERNATOR - RE-ALIGNED & RE-DOWELLED.'.

**02.08.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY BOX - RE-BUILT'.

**02.08.1990** Service defect: 'UN - EXHAUST - BLOWN GASKET - REPLACED.'.

**02.08.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR - RE-ALIGNED.'.

**02.08.1990** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION REPAIRS - 'B'END COW/CATCHER,UNDER/FRAME,BUFFER & - FRONT PANEL RE-BUILT.'.

**03.08.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - PIECE OF DUCTING REMOVED FROM NO.4 T/MOTOR TOP - BRUSH/HOLDER.'.

**10.08.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - WHEEL CONDITION - WHEELS TO RUN/OUT.(UNABLE TO PROFILE)'.

**10.08.1990** Service defect: 'C - COOLING SYSTEM RADIATOR - RADIATOR LEAK - O/SIDE MIDDLE RADIATOR REPLACED.'.

**10.08.1990** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - HATCH MODIFICATION - COMPLETED.'.

**24.08.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - DRIVERS HEALIGHT REPLACED A/C LIGHTING C/B TRIPPING.'.

**09.09.1990** Service defect: 'TW - AIR CONDITIONING - FAULTY SWITCH - NO.14 WIRE ON 'A'END AIR/COND.SWITCH REP'D.'.

**09.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**17.09.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS(3,4,5&6),7 BAGS(1),8 BAGS(2).'.

**22.09.1990** Service defect: 'UN - BOGIE - EXCESS TRAVEL - SEVERAL BLOCKS REPLACED,BRAKES ADJUSTED.'.

**22.09.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - REAR SANDER FAULT - 'A'END SANDER BUTTON REPAIRED.'.

**28.09.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - THIN WHEELS - O/HAULED BOGIES INSTALLED.'.

**28.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**28.10.1990** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - FAULTY VALVE - SAFETY VALVE REPLACED.'.

**01.11.1990** Service defect: 'UN - COOLING SYSTEM - WATER PIPE BETWEEN ENGINE & COMPRESSOR REPAIRED A/C LEAKING.'.

**01.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKE BLOCKS REPLACED.'.

**01.11.1990** Service defect: 'UN - WHEELS TO PROFILE'.

**09.11.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(1-5),5 BAGS(6).'.

**09.11.1990** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - SPLIT AFT/COOLER DUCT - 9-16 AFT/COOLER REPAIRED.'.

**15.11.1990** Service defect: 'TS - WATER CONNECTOR,4 WAY,TO COMPRESSOR TO REPAIR.'.

**16.11.1990** Service defect: 'SW - ENGINE WATER LEAK - LOSING WATER - 4 WAY VALVE TO COMPRESSOR

REPLACED.'.

**16.11.1990** Service defect: 'SW - OTHER BODY REPAIRS - BROKEN STEP SUPPORT - 'A'END D/SIDE STEP RE-WELDED.'.

**18.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - WIRING RE-CONNECTED,UNIT TESTED OK.'.

**02.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - SEVERAL BLOCKS CHANGED & BRAKES ADJUSTED.'.

**02.12.1990** Service defect: 'TW - 'A'END LEFT NO.LIGHT GLASS TO REPLACE. (2/12)'.

**09.12.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**09.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - STEP DAMAGE - 'A'END D/SIDE STEP REPLACED.(EX.AL20) CAB REPAIRS - D/SIDE SEAT & 'A'END DOOR SEALS REPAIRED.'.

**01.01.1991** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. * GEAR WEAR * - NO.1 DRIVE GEAR TO MONITOR.'.

**01.01.1991** Service defect: 'TS - COOLING SYSTEM WATER PUMP - LOST WATER - L/H WATER PUMP REPLACED.'.

**01.01.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - FAULTY VALVE - COMP/GOVN REPAIRED.'.

**14.01.1991** Service defect: 'A - ALTERNATON FAILURE NO FAULT FOUND'.

**07.02.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - TM'S / MG CHECKED OK IN DEPOT A/C GR'S IN NOTCH 8.'.

**14.03.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - CONTINUOUS G/RELAYS - NO.2 T/MTR COMM.CLEANED/UP. (TRN.NO.4AP1) - BRUSH RE-POSITIONED,ALL MOTORS MEGG.OK'.

**14.03.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - B.C.P.LIGHT - REPLACED A/C BLOWN.'.

**11.04.1991** Service defect: 'SW - LUBRICATING SYSTEM - HIGH VISCOSITY (LAB REPORT) - ENG OIL AND FILTERS CHANGED.'.

**15.07.1991** Service defect: 'UN - GENERAL - TOILET FLUSH VALVE REPAIRED.'.

**30.07.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REPLACED SPEEDO TRANSMITTER, A/C OIL SEAL DAMAGED, OIL LEAKING UNTO COMMUTATOR & BRUSH GEARS. REPLACED P1,P3 & P6'.

**30.07.1991** Service defect: 'B - GENERAL - 'B'END DRIVERS SIDE WIPER MOTOR REPLACED, A/C MISSING.'.

**30.07.1991** Service defect: 'B - PEE PIPE - NO 13 'P'PIPE REPLACED.'.

**30.07.1991** Service defect: 'B - NO'S 1,2,4 & 5 GEARCASES REQUIRES SHIMS &'.

**30.07.1991** Service defect: 'B - RETENSIONING.30/7.'.

**14.08.1991** Service defect: 'UN - BOGIE - T/M GEARCASE LUBE LEVEL CHECKED OK. WICKS CHECKED OK, A/C NOISY BOGIES.'.

**14.08.1991** Service defect: 'UN - COOLING SYSTEM - ENGINE WATER COOLANT CHANGED,A/C LAB REPORT.'.

**14.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B' END PACKAGE REPLACED & COUPLER LUBRICATED.'.

**21.08.1991** Service defect: 'UN - GENERAL - BOTH B END CAB DOOR HINGES REPLACED OBSERVER SIDE MIRROR REPLACED B END DESK LIGHT REPAIRED.'.

**25.09.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - L4 &L5 AXLE BOX WEAR PLATES REWELDED.'.

**25.09.1991** Service defect: 'A - ENGINE CYLINDER HEADS - ROLLERS ON ROCKERS NO.12 CYLINDER REPLACED.'.

**25.09.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER 'B'END REPLACED.'.

**25.09.1991** Service defect: 'A - ROLLERS ON NO.5 CYLINDER TO BE MONITORED.25/9.'.

**10.10.1991** Service defect: 'UN - AUXILLARY MACHINES - BOLT REPLACED ON AUXILLARY GENERATOR.'.

**06.11.1991** Service defect: 'UN - FAN CONTACTORS - RADIATOR FAN CONTACTOR EX CL I4 FITTED.'.

**06.11.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO 1 RADIATOR FAN REPLACED.'.

**20.11.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L2,R2,L3 & L4 WICKS CHANGED.'.

**20.11.1991** Service defect: 'C - COOLING SYSTEM RADIATOR - RADIATOR HEADER BRACKET REPLACED,A/C BROKEN.'.

**20.11.1991** Service defect: 'C - FUEL SYSTEM - FUEL LEAK UNDER PRIMARY FILTER REPAIRED.'.

**20.11.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - NO 12 TEST COCK CHANGED,A/C LEAKING.'.

**20.11.1991** Service defect: 'C - PEE PIPE - PEE PIPE ON NO 12 CHANGED.'.

**23.12.1991** Service defect: 'UN - AUXILLARY MACHINES - BROKEN LUG ON THE ROTATING FIELD OF THE AR10 REPAIRED AND TESTED.'.

**21.01.1992** Service defect: 'TS - GENERAL LOSS OF POWER - DROPPING POWER, CHECKED OK ON TRIAL RUN, TRANSITION OK.'.

**30.01.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - P6/P3 CONTACTORS CHECKED OK ON TRIAL RUN.'.

**30.01.1992** Service defect: 'A - TRACTION MOTOR - REPAIRED BOTTOM BRUSH HOLDER ON NO 1 T/MOTOR,A/C RUBBING ON COMM.'.

**06.02.1992** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - EARTH ON FSV95 SANDING VALVE,REPAIRED.EARTH ON HL825 WIRE ENG ROOM LIGHTS,REPAIRED.SLIGHT EARTH ON CAB HEATERS & FANS'.

**06.02.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - 22T (121 BOARD) A22 WIRE BURNT TRHOUGH.FEED WAS FOUND ON PIN22 IN MU.22 WIRE REPAIRED.'.

**25.03.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - CR26 REPLACED.'.

**25.03.1992** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT RESISTOR REPLACED.'.

**25.03.1992** Service defect: 'B - ENGINE - ROLLERS ON NO.5 CYLINDER TO MONITOR.'.

**25.03.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 15BRUSHES CHANGED.A/C FRAYED PIGTAILS.'.

**01.04.1992** Service defect: 'TS - ELECTRICAL MISC. MODULES - HUNTING BADLY IN NOTCH 7 & 8.SE10 MODULE REPLACED WITH AL20.LOCO TESTED OK AFTER MODULE REPLACED.'.

**02.04.1992** Service defect: 'TS - NO FAULT FOUND - LOCO

REPORTED AS SURGING.-AL21 TRIAL RUN-NO SURGING EVIDENT.'.

**23.04.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - ENGINE ROOM TOGGLE SWITCH REPLACED.'.

**23.04.1992** Service defect: 'UN - OTHER BODY REPAIRS - 'B'END STEP LIGHTS REPAIRED.'.

**12.06.1992** Service defect: 'A - ENGINE CYLINDER HEADS - P-PIPE ON NO 14 CYL REPLACED.'.

**10.07.1992** Service defect: 'UN - NO FAULT FOUND - LOCO TEST RUN AND FOUND OK.A/C GRID BLOWER LIGHT ON AND DYNAMIC BRAKE FLUCTUATING.'.

**22.07.1992** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - DYN. BRAKE REGULATOR CHANGED A/C NOT CONFORMING TO STATIC TESTS.-LOCO TEST RUN OK.'.

**22.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATER REPAIRED.'.

**22.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE DOOR SEAL REPLACED.'.

**22.07.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED A/C SEIZED.'.

**21.08.1992** Service defect: 'UN - BODY REPAIRS - ACCIDENT - 4 BODY PANELS REPLACED A/C ACCIDENT WITH 961. ENGINE ROOM DOOR INSTALLED. SKIRTING REPLACED.'.

**21.08.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS INSTALLED. SWAPPED WITH DL50..'.

**21.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LAMP HOLDER REPLACED 'B'END PEDESTAL A/C TAKEN FOR AL19.'.

**21.08.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV. REPLACED A/C ORIGINAL USED FOR AL25. GOVERNOR OIL LINE TO LOAD REGULATOR REPLACED. USED FOR CL5.'.

**21.08.1992** Service defect: 'UN - MECHANICAL AIR BRAKE REPAIRS - ACCIDENT - 2 BRAKE CYLINDERS REPLACED. DRIVERS SIDE NO.1 &2 . ENGINE ROOM DOOR STEP INSTALLED.'.

**21.08.1992** Service defect: 'UN - VIGILANCE - 3 WAY SOLENOID REPLACED.'.

**02.09.1992** Service defect: 'D - LUBRICATING SYSTEM - OIL LEAKS REPAIRED ON MICHIANA AND SCAVENGING OIL PIPES.'.

**02.09.1992** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE REPAIRED A/C DAMAGED ABOVE BOGIE ON UNDER-FRAME. FULL LENGTH OF PIPE REMOVED AND GOOSE NECK SECTION REPLACED.'.

**02.09.1992** Service defect: 'D - TRACTION MOTOR BRUSHES - 66 BRUSHES REPLACED A/C AT CONDEMNING LIMIT.'.

**08.09.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - 'B' END STEP LIGHT WIRING REPAIRED.'.

**08.09.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - GEN. FIELD SWITCH REPLACED. A/C U/S LOCO WOULD NOT POWER UP FROM 'A' END.'.

**08.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - 'J' RELAY VALVE REPLACED.'.

**08.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CRACKED BRAKE CYLINDER ELBOW REPAIRED.'.

**09.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDENT RELEASE VALVE CHANGED. 'A' END. AUTO BRAKE VALVE CHANGED. 'A' END.'.

**21.09.1992** Service defect: 'TS - BLOCKED FILTERS - AIR FILTERS CHECKED OK.'.

**21.09.1992** Service defect: 'TS - ENGINE - ALTERNATOR & COMPRESSOE WASHED,A/C OIL LEAK.'.

**16.10.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED OK.'.

**16.10.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - LOW IDLE FAULT - WIRING RECONNECTED BACK TO ITS ORIGINAL OPERATION.'.

**16.10.1992** Service defect: 'UN - GENERAL - WINDSCREEN WIPER 'A'END REPAIRED.'.

**29.10.1992** Service defect: 'UN - GENERAL UNABLE TO LIFT LOAD - HUNTING - NO DEFINITE FAULT FOUND, SENT TO PT AUG FOR LOAD BANK TESTING.'.

**26.11.1992** Service defect: 'A - BOGIE - R5 SLACK ADJUSTER REPLACED. R1,3,4 & 6 RESILIENT RUBBERS REPLACED. R6 + L2 AXLE THRUST PLATE REPLACED.'.

**26.11.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2 WICK REPLACED.'.

**12.12.1992** Service defect: 'TS - ENGINE CYLINDER HEADS - NO 16 HEAD REPLACED, A/C BROKEN VALVE. ROCKER ARM & TEST VALVE ALSO REPLACED.'.

**31.12.1992** Service defect: 'TS - ENGINE - NO 1 CYL HEAD PISTON & CON ROD REMOVED, A/C DAMAGED. NEW CON ROD ASSEMBLED WITH NEW COMPONENTS,CON ROD INSTALLED &'.

**06.01.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER INSPECTED.'.

**22.01.1993** Service defect: 'UN - AIR CONDITIONING - AIR CON. REPAIRED.'.

**11.02.1993** Service defect: 'B - VIGILANCE - VIG FAULT REPAIRED, A/C WATER IN PRESSURE SWITCH CLEARED.'.

**11.02.1993** Service defect: 'B - R/SIDE FUEL SIGHT GLASS CRACKED & LEAKING.11/2.'.

**19.03.1993** Service defect: 'SW - BOGIE - BOGIE LUBRICATION COMPLETED.'.

**19.03.1993** Service defect: 'SW - ENGINE - RACKS ADJUSTED & EXCITATION CIRCUIT CHECKED OK, A/C HUNTING.LOCO SENT ON TRIAL RUN & TESTED OK.'.

**10.04.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGE COMPLETED.'.

**07.05.1993** Service defect: 'A - ALTERNATOR - SLIP RING BACK BRUSHES AND SECOND FROM FRONT REPLACED A/C CONDEMNING LIMIT. ALTERNATOR CLEANED.'.

**07.05.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - P5 MAIN CONTACTS TIGHTENED A/C LOOSE.'.

**07.05.1993** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATOR LEAK CHECKED AND TO BE MMONITORED.'.

**07.05.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 'A'END HOT PLATE REPLACED A/C OLD ONE U/S.'.

**07.05.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO.2 COOLING FAN PLUG SOCKET REPAIRED A/C PINS BURNT OFF.'.

**07.05.1993** Service defect: 'A - RADIATOR WATER LEAK TO

MONITOR.7/5/93.'.

**20.05.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR CHANGE COMPLETED (WHOLE BANK USED EX DL 41),A/C LEAKING. RADIATORS TESTED OK.'.

**25.05.1993** Service defect: 'UN - EXHAUST - EXHAUST STACK REPAIRED.'.

**01.06.1993** Service defect: 'SW - FUEL SYSTEM INJECTORS - 5 FUEL INJECTORS REPLACED A/C LEAKING BADLY. INJECTORS TAKENFROM BL35'S SERVICE SET.'.

**01.06.1993** Service defect: 'SW - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C FUEL DILUTION.'.

**07.07.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER CHANGED. EX CL3.CHECKED OK. TURBO LUBE PUMP CHANGED EX CL3.'.

**04.08.1993** Service defect: 'C - FUEL SYSTEM - FUEL TANK DRAIN PLUG LEAK REPAIRED.'.

**04.08.1993** Service defect: 'C - FUEL SYSTEM INJECTORS - NO'S 13 & 14 INJECTORS CHANGED.'.

**AL 22**

Details: locomotive 'AL 22 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $691470
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 10
**Date Built:** 20.06.1977
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** W/O 18.12.93
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 20.10.1993 | | |
| Last Lift: | 23.12.1988 | | |
| SW Service Mileage: | 807956 KM | SW Service Date: | 18.12.1992 |
| A Service Mileage: | 901728 KM | A Service Date: | 08.06.1993 |
| B Service Mileage: | 948233 KM | B Service Date: | 02.09.1993 |
| C Service Mileage: | 683762 KM | C Service Date: | 01.05.1992 |
| D Service Mileage: | 851420 KM | D Service Date: | 19.03.1993 |
| E Service Mileage: | 538218 KM | A Service Date: | 13.06.1991 |
| F Service Mileage: | 0 KM | A Service Date: | 23.12.1988 |
| WT Service Mileage: | 878044 KM | WT Service Date: | 18.05.1993 |
| US Service Mileage: | 954512 KM | A Service Date: | 20.10.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**02.07.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - NO LOW BEAM - EXTENSIVE REPS.TO WIRING/RESISTORS COMPLETED. 'A'END.'.

**10.07.1989** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - NO POWER - MICRO/SWITCH REPLACED.'.

**05.08.1989** Service defect: 'TW - BOGIE - BOGIE LUBE - 6 BAGS TMGL ADDED TO EACH GEAR CASE.'.

**05.08.1989** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - SHARP FLANGES - L1 & L2 SENT TO WHEEL LATHE.(9+).'.

**21.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GLOBE REPLACED A/C VIGILANCE PROBLEM.'.

**22.08.1989** Service defect: 'A - FUEL SYSTEM - D/S FUEL RESET BUTTON REPLACED A/C FAULTY'.

**03.09.1989** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - LOST POWER AFTER TRANSITION,TRANSITION TESTED OK.'.

**03.09.1989** Service defect: 'TS - ENGINE - PROTECTION DEVICE CHECKED OK.TEST RUN OK.'.

**18.09.1989** Service defect: 'UN - AIR CONDITIONING - LOSS OF GAS - HIGH PRESSURE HOSE REPLACED.(BURST) - UNIT RE-GASSED & OPERATION CHECKED OK.'.

**22.09.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - BLOWN BEAM - 'A'END HEAD/LIGHT SEAL BEAM REPLACED.'.

**22.09.1989** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL LEAK - FLANGE NUT & BACKING PLATE BOLTS TIGHTENED ON - FUEL PUMP.'.

**22.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - SERVICE TANK LEAK - REPAIRS COMPLETED. FLUSH VALVE - TOILET FLUSH VALVE REPLACED.'.

**03.10.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**04.10.1989** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - AFT/COOLER READINGS - O/SIDE 5 1/2',D/SIDE 9'. AIR INTAKE FILTERS - 4 1/2'.'.

**20.10.1989** Service defect: 'UN - AIR CONDITIONING - AIR COND CHECKED OK,NO FAULT FOUND.'.

**26.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - O/S VIG BUTTON REPAIRED A/C FAULTY.'.

**29.10.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 6 BAGS OF CRATER ADDED TO ALL GEAR CASES.'.

**07.11.1989** Service defect: 'UN - DYNAMIC BRAKE - GRID BLOWER PROTECTOR LIGHT ON AN. MODULE REPLACED.BLOWER MOTOR COMMUTATORS CLEANED.GRIDS OK,WIRING OK.'.

**23.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - UNIT CHANGE - ODDOMETER RE-SET TO CORRECT READING. (WEST/RAIL) - ODDOMETER SHOWING 002305.'.

**27.11.1989** Service defect: 'UN - AIR CONDITIONING - C/BREAKER TRIPPING -'.

**08.12.1989** Service defect: 'TW - AIR CONDITIONING - AIR/COND - RE/GASSED & OPERATING OK.'.

**08.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**08.12.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN HOSES - I.R.&M.R.HOSES REPLACED.'.

**18.12.1989** Service defect: 'UN - AIR CONDITIONING - UNIT NOT COOLING - AIR/COND.UNIT RE-GASSED.'.

**24.12.1989** Service defect: 'TW - AIR CONDITIONING - C/BREAKER TRIPPED - NO DEFECT FOUND.'.

**24.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**24.12.1989** Service defect: 'TW - FUEL SYSTEM - FUEL IN BY/PASS - FUEL FILTERS REPLACED.'.
**05.01.1990** Service defect: 'B - AIR CONDITIONING - FAULT - HIGH PRESSURE DISCHARGE HOSE REPLACED.'.
**21.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS(2,3,4,5&6),8 BAGS(1).'.
**25.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**11.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS(1,3&4),6 BAGS(2,5&6). (TMGL)'.
**25.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - COMPLETED. ALSO MOST BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED'.
**05.03.1990** Service defect: 'TS - COOLING SYSTEM RADIATOR - R/H NO.1 RADIATOR REPLACED A/C LEAKING.'.
**11.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**25.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL G/CASES CHECKED OK.'.
**08.04.1990** Service defect: 'TW - AIR CONDITIONING - C/BREAKER TRIPPING - 85 AMP C/BREAKER REPLACED.'.
**08.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**11.04.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT -'.
**15.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(2,3,4&5),4 BAGS(1&6).'.
**02.05.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,4&6),5 BAGS(3&5).'.
**23.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 7 BAGS ADDED TO EACH G/CASE.'.
**31.05.1990** Service defect: 'B - RADIATOR/PRESSURISING FAN - NO.1 RADIATOR FAN - REPLACED A/C O.C.C.'.
**30.06.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE - AN/DG MODULES RESET. GRIDS O.K.'.
**11.07.1990** Service defect: 'SW - BRAKE ADJUST MILE END'.
**16.07.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - R1 RADIATOR REPLACED A/C LEAKING.'.
**21.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**10.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**10.08.1990** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - EARTH FAULTS - 2 NO.ENG/ROOM LIGHT BATON HOLDERS REPLACED.'.
**14.08.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 5 BAGS(1,3,5&6),6 BAGS(2&4).'.
**14.08.1990** Service defect: 'C - ENGINE LINER - WATER LEAK - NO.14 HEAD/GASKET REPLACED.(GROMET LEAK) - NO.1,3,4&8 WATER/ELBOW & SEALS REPLACED.'.
**29.08.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 'THRU'RUNNING MODS - COMPLETED.'.
**09.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. BURNT BLOCKS - FULL SET BLOCKS FITTED & BRAKES ADJUSTED.'.
**26.09.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.5 T/MOTOR REPLACED.'.
**26.09.1990** Service defect: 'TS - TRACTION MOTOR BRUSHES - BROKEN PIG/TAILS - 9 BRUSHES REPLACED NO.6 T/MOTOR.'.
**27.09.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS(5),6 BAGS(1,2,3,4&6).'.
**27.09.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - COMPLETED A/C NO.5 T/MOTOR CHANGE.'.
**29.09.1990** Service defect: 'UN - NO FAULT FOUND - G/RELAY OPERATION - LOCO CHECKED IN DEPOT,TEST RUN COMPLETED - LOCO NOT FAULTED.'.
**13.10.1990** Service defect: 'UN - BOGIE - BOGIE LUBE-4 BAGS FOR EACH CASE'.
**24.10.1990** Service defect: 'SW - BOGIE - - (SPEEDO READING 398548 KM)'.
**24.10.1990** Service defect: 'SW - BOGIE - SUPPORT FAILURE - NO.6 SUPPORT BEARING REPLACED. O/HAULED BOGIES - INSTALLED 15/10/90 PETERBOROUGH.'.
**27.10.1990** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.6 WICK CHECKED OK,A/C SUPPORT FAILURE.'.
**05.11.1990** Service defect: 'A - AIR CONDITIONING - TRIPPING C/BREAKER - SYSTEM CHECKED,NOT FAULTED.'.
**05.11.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**17.11.1990** Service defect: 'UN - COOLING SYSTEM WATER PUMP - LOSING WATER - L.H.WATER PUMP REPLACED.(BEARING COLLAPSED)'.
**01.12.1990** Service defect: 'TW - AIR CONDITIONING - UNIT NOT WORKING -'.
**01.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**14.01.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - ENGINE ROOM LIGHTS NOT WORKING -BROKEN NEGATIVE E/ROOM LIGHTCIRCUIT ON RAD FAN HATCH REPAIRED.'.
**15.01.1991** Service defect: 'UN - NO FAULT FOUND - AIR COND. CHECKED'.
**15.01.1991** Service defect: 'UN - BOLSTER SIDE BEARER WEAR PLATES MISSING FROM LHS'.
**15.01.1991** Service defect: 'UN - 'B' BOGIE'.
**21.01.1991** Service defect: 'B - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH ON SPEEDO.'.
**21.01.1991** Service defect: 'B - RADIATOR/PRESSURISING FAN - RADIATOR FAN CHANGED.'.
**04.03.1991** Service defect: 'UN - AIR CONDITIONING - AIR/COND - UNIT CHECKED IN DEPOT,OPERATION NOT FAULTED.'.
**04.03.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - BROKEN PIPE - COPPER PIPE TO COMPRESSOR REPLACED. - (CRACKED FLARE)'.
**04.03.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS - 'A'BOGIE CUT/OUT A/C NO SAND TRAPS AVAILABLE.(RH1)'.
**08.03.1991** Service defect: 'UN - BOGIE - BOGIES CHECKED OK IN DEPOT,A/C ROUGH RIDING'.
**27.03.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - ALL JOURNAL BOX RESILIENT RUBBERS REPLACED,A/C ROUGH RIDING.'.
**27.03.1991** Service defect: 'UN - ENGINE WATER LEAK - BLOCK WELDED BY NO8 WATER JUMPER-CHECKED OK.N03,4,7,10,11,12WATER JUMPER 'O'RINGS

REPLACED-CHECKED 0K,A/C LEAKS.'.

**27.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END MAIN RES.COCK DRIVERS SIDE REPLACED.'.

**27.03.1991** Service defect: 'UN - OTHER BODY REPAIRS - 'B'END DRIVERS SIDE DOOR HANDLE REPLACED,A/C U/S.'.

**19.04.1991** Service defect: 'UN - GENERAL - TOILET & SURROUNDS UNBLOCKED & STEAM CLEANED.'.

**03.05.1991** Service defect: 'UN - EXHAUST - EXPANSION JOINT REPLACE WITH SECOND SPARE,A/C REMOVED FOR AL 18.'.

**03.05.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO3 RAD FAN-2 FUSES ON FC3 BLOWN-CONTACTS TIPS WELDED IN ON FC3,REPLACED CONTACTS & FUSES.FANS RUN OK.'.

**03.05.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - BRUSHES REPLACED IN NO 4&5 T/M,A/C LOOSE PIGTAILS.ALL MOTORSCHECKED & BRUSHES REPLACED WHERE NECESSARY.'.

**03.05.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 3 T/MOTOR REPLACED,A/C SEVERE FLASHOVERS/ BURNT CABLES TOBRUSH HOLDERS.IN-D77B 69E1 1004.OUT D67B 640 110.'.

**07.05.1991** Service defect: 'UN - VIGILANCE - 'B'END VIGILANCE BUTTON REPLACED.'.

**23.05.1991** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - FRONT SANDERS REPAIRED & ALL SANDERS TESTED OK,A/C BLOCKED.'.

**23.05.1991** Service defect: 'TS - TRACTION MOTOR LOOSE PINION - NO 3 T/MOTOR REPLACED,A/C PINION FAILURE DUE TO LOCKING TAP WORKING LOOSE.IN,75-H1-1345.OUT,69-E1-1004.'.

**13.06.1991** Service defect: 'E - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE 'A'END ASSEMBLED.FLOW METER REPAIRED,A/C GASKET IN INCORRECT POSITION.'.

**24.06.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTOR CHANGE - COMPLETED.(E3B ENGINE)'.

**10.07.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - 2 BANKS OF RADIATORS REPLACED, A/C LEAKING.'.

**25.07.1991** Service defect: 'TS - ENGINE WATER LEAK - LOSS OF COOLING WATER - NO.12 CYL/HEAD & GASKET REPLACED.'.

**06.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE REPLACED, A/C U/S.'.

**06.09.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - SPEEDO TESTED,LOW TENSION READING WAS HIGH, CHECK NEXT SERVICE,'B'END SPEEDO PLUG (TOP), SCREW WORKING LOOSE.'.

**06.09.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L3,R1 & R4 SANDERS REPAIRED & CLEARED.'.

**06.09.1991** Service defect: 'A - WHEELSLIP - POSSIBLE WHEELSLIP PROBLEM CAUSED BY PIGTAILS PULLED OUT OF BRUSHES ON 3 T/M'S, POWER MAY HAVE BEEN LOST THROUGH GROUND'.

**06.09.1991** Service defect: 'A - LOAD REG GLASS TO BE REPLACED,A/C SMASHED.6/9.'.

**13.09.1991** Service defect: 'UN - NO FAULT FOUND - FAULT LIGHT ON AN MODULE - ALTN.& T/MTRS.MEGGERED OK. (G/RELAY LED ILLUMINATED)'.

**17.10.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - HIGH AMPS IN POWER - SHUNT REPLACED. * 1350 AMPS COMPARED TO CL 900 AMPS & GM 800 AMPS *'.

**17.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN STEP - 'A'END D/SIDE STEP RE-WELDED.'.

**08.11.1991** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED,A/C BLOWN.'.

**29.11.1991** Service defect: 'SW - BOGIE - LUBRICANT CHECK - COMPLETED.'.

**29.11.1991** Service defect: 'SW - ENGINE - CRACKED BLOCK - RE-WELDED & CHECKED OK. (8-16 VEE)'.

**29.11.1991** Service defect: 'SW - ENGINE GOVERNOR MECHANICAL - LOW IDLE - MODIFICATION COMPLETED.'.

**04.12.1991** Service defect: 'UN - DRIVER FAULT - THIS LOCO FITTED WITH LOW IDLE A/C CUT OUT.DRIVER CONFUSION CAUSED FAULT REPORT,AIR CON CONTROLLED ALSO BY REVERSER'.

**04.12.1991** Service defect: 'UN - GENERAL SHUTDOWN - LOW IDLE DISCONNECTED & RETURNED TO NORMAL OPERATION,A/C HUNTING,SHUTTING DOWN IN LOW IDLE.'.

**30.12.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - LOW IDLE FEATURE DISCONNECTED A/C FAULTY.'.

**23.01.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY - NO.6 T/MOTOR CLEANED/UP ALSO BRUSH/HOLDER REPAIRED'.

**23.01.1992** Service defect: 'UN - ENGINE - LOAD/TEST - COMPLETED,2678 H/POWER.'.

**23.01.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - SUSPECT LOW H/POWER - GOVERNOR REPLACED. - IN 2196330,OUT 1229036.'.

**30.01.1992** Service defect: 'A - L3 SANDER NEEDS NEW HOSE.30/1.'.

**06.02.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO DRIVE REPLACED.'.

**06.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END DRIVERS BRAKE VALVE REPLACED.AIR LEAK ON CONTROL PIPE(INDEPENDANT RELEASE ) REPAIRED.'.

**10.04.1992** Service defect: 'UN - BOGIE - L3 & R3 WEAR PADS REPLACED.RESILIENT RUBBERS CHECKED OK. R2 AXLE THRUST PLATE REPLACED.'.

**10.04.1992** Service defect: 'UN - AXLE COVER TO REPLACE + WIRE.R5 SPRING BROKEN.10/4'.

**01.05.1992** Service defect: 'C - BODY REPAIRS - ACCIDENT - D/SIDE 'A'END STEP REWELDED.OK.'.

**01.05.1992** Service defect: 'C - BOGIE MAINTENANCE - SPRINGS - R5 SPRING REPLACED.OK.'.

**14.05.1992** Service defect: 'UN - STARTER MOTOR - POLARITY ON STARTER MOTORS REVERSED,LOCO STARTED & TESTED OK'.

**24.06.1992** Service defect: 'TS - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.'.

**24.06.1992** Service defect: 'TS - TRACTION MOTOR - NO.6 T/M REPLACED.-TRIAL RUN TO PT. ADELAIDE.PICKED UP OIL TRAIN.OK.'.

**10.07.1992** Service defect: 'UN - BOGIE - FULL BOGIE LUBE DONE.'.

**10.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 3 WAY SOLENOID VALVE REPLACED.'.

**10.07.1992** Service defect: 'UN - TRACTION MOTOR

FLASHOVER - NO.4 T/M CLEANED AND PAINTED A/C PIG TAILS CAUSED FLASHOVER.'.

**17.07.1992** Service defect: 'A - BOGIE - R2 SHOCKER RUBBERS REPLACED.'.

**17.07.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - CX2 WIRE CONNECTED TO CS1 WIRE ON 'D' TERMINAL OF THS IDLE SWITCH PCS NOT DROPPING ENG. REVS TO IDLE FROM NO.2 END.'.

**17.07.1992** Service defect: 'A - ENGINE - NO.9 TEST COCK REPLACED.A/C LEAKING.'.

**17.07.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L2;L4&R4 SANDERS REPAIRED.'.

**17.07.1992** Service defect: 'A - TRACTION MOTOR SUSPENSION BEARING - R5 SUSPENSION CAP BOLT TIGHTENED A/C LOOSE.'.

**31.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 'A'END CONTROLLER REPLACED.-S.STICKWOOD MOD.DONE TO LOCO IDLE.-LOW IDLE MOD.-MODIFIED TO ALLOW REVS IN THROTTLE 1&2'.

**19.08.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOW IDLE MOD. REPAIRED. LOCO WIRED AS PER DIAGRAM. DIODE CR31A REVERSED BIAS.'.

**19.08.1992** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR CHANGED A/C FAULTY 'B' VALVE.'.

**03.09.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WEAR STRIPS WELDED ONTO AXLE BOX INSIDE NO.3 WHEEL SET. SENT TO WTM A/C RAIL BOUND AND L5 FLANGE SHARP. #23.'.

**01.10.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R2,R6 & L5 WICKS CHANGED.ALL SUSPENSION BEARING OILS CHANGED'.

**01.10.1992** Service defect: 'B - ENGINE - BULKHEAD BETWEEN TURBO & AUX GEN REPAIRED.'.

**01.10.1992** Service defect: 'B - GENERAL - 'A'END DRIVERS SEAT REPAIRED.'.

**25.10.1992** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE STEP REPLACED.'.

**25.10.1992** Service defect: 'UN - VIGILANCE - FAULTY VIGILANCE, STICK IN RELAY REPLACED, VIG CHECKS OK.'.

**25.10.1992** Service defect: 'UN - 'A'END WASHERS TO REPAIR NEXT SERVICE.25/10.'.

**14.11.1992** Service defect: 'UN - ENGINE - NO 6 POWER ASSEMBLY REPLACED, A/C DROPPED VALVE CAUSING HOLEIN CYL HEAD. LOCO STARTED & TESTED OK.'.

**15.12.1992** Service defect: 'SW - ALTERNATOR - ALT FRONT COVERS REMOVED & CLEANED, A/C OILY & DIRTY. INSIDEOF ALT BLOWN OUT, A/C DUSTY. SLIP RINGS CHECKED, A/C REAR'.

**15.12.1992** Service defect: 'SW - SLIP RINGS TO MONITOR, A/C REAR RING SCORED.15/12.'.

**18.12.1992** Service defect: 'SW - BOGIE - SHOCKER REPLACED.'.

**18.12.1992** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO OIL FILTER GASKET RENEWED.'.

**31.12.1992** Service defect: 'A - ALTERNATOR - ALTERNATOR SLIP RINGS REPLACED, A/C SCORED.'.

**31.12.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R6 WICK REPLACED.'.

**31.12.1992** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INSPECTION PLATE BOLTS & NUTS REPLACED.'.

**31.12.1992** Service defect: 'A - LUBRICATING SYSTEM - GASKET REPLACED ON OIL LINE TO TURBO.'.

**31.12.1992** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE BOLTS REPLACED.'.

**31.12.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - NO 5 BRUSH HOLDER REPLACED.'.

**12.01.1993** Service defect: 'UN - AIR CONDITIONING - AIR COND.WORKS.'.

**12.01.1993** Service defect: 'UN - NEEDS EXT/FAN BEARING.'.

**16.02.1993** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR REPLACED & TESTED OK.'.

**16.02.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - FAN COVERS REPAIRED, A/C BROKEN & FOULING FAN.'.

**16.02.1993** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED, A/C ARMATURE, INTERPOLES. TRACKS TO FRAME.'.

**19.03.1993** Service defect: 'D - AUXILLARY MACHINES - 4 AUX GEN BRUSHES REPLACED,A/C CONDEMNED LIMIT.'.

**19.03.1993** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L4,R5 & R6 WICKS CHANGED.'.

**19.03.1993** Service defect: 'D - CONTACTOR MISCELLANEOUS - FC2 & FC3 CONTACT TIPS REPLACED, A/C BURNT & PITTED SEVERLY.'.

**19.03.1993** Service defect: 'D - ENGINE CYLINDER HEADS - NO 2 & 5 (HEAD) WATER ELBOWS CHANGED, A/C LEAKING.'.

**19.03.1993** Service defect: 'D - MECHANICAL EQUIPMENT SANDING GEAR - L6 SANDER HOLE REWELDED.'.

**19.03.1993** Service defect: 'D - TRACTION MOTOR - COM VEED OUT ON NO 6 T/MOTOR,9 O'CLOCK BRUSH HOLDER REPLACEDA/C RUBBING ON COM.'.

**19.03.1993** Service defect: 'D - BRAKE CYLINDERS TO CHANGE,A/C LEAKING PAST PISTON'.

**19.03.1993** Service defect: 'D - SEAL.19/3.'.

**23.03.1993** Service defect: 'TS - TRACTION MOTOR - NO 6 T/MOTOR REPLACED, A/C BRUSH HOLDER AT 9 O'CLOCK HARD AGAINST COMMUTATOR & COMM REQ'S REGRINDING. T/MOTOR IN - 64L'.

**08.06.1993** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - FUSES ON NO 2 COOLING FAN REPLACED,A/C BLOWN. FAN CHECKED OK'.

**08.06.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 'A'END LOAD AMMETER REPLACED,A/C STICKING.'.

**08.06.1993** Service defect: 'A - L3 & R3 FRONT INNER AXLEBOX WEAR PLATES.8/6.'.

**09.06.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE EXHAUST GUARD REPAIRED & REFITTED.'.

**12.07.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 3 BRUSHES CHANGED ON NO 1 T/MOTOR,A/C FLASH FROM HOLDER TO FRAME. T/M WIPED OUT.'.

**12.08.1993** Service defect: 'UN - NO FAULT FOUND - REPORT OF OIL IN WATER - ENGINE INSPECTION, NO FAULT FOUND.'.

**02.09.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - F/C 3 CONTACTOR REPAIRED, A/C STICKING IN.'.

**02.09.1993** Service defect: 'B - ENGINE - MARMON

COUPLING ON HEAT EXCHANGER PIPE REPLACED.'.

**02.09.1993** Service defect: 'B - GENERAL - 'B'END OBS/SIDE MIRROR REPLACED.'.

**02.09.1993** Service defect: 'B - RADIATOR/PRESSURISING FAN - RAD FANS 1 & 2, FEMALE PLUGS REPINNED. RAD FAN 2, MALE PLUG REPAIRED. 1 PHASE TO NO 1 RAD FAN REPLACED, A/C EARTH. FAN'.

**02.09.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED, A/C CONDEMNING LIMIT.'.

**10.09.1993** Service defect: 'UN - BOGIE - BOGIE SWAP WITH CL 10 COMPLETED. DIRECTION TESTED OK, LOCO SENT BACK INTO TRAFFIC.'.

**20.10.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDO AXLE GENERATOR FAULTY - UNIT CHANGED - CHECKED OK.'.

**AL 23**

Details: locomotive 'AL 23 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $691470
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 10
**Date Built:** 06.07.1977
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** W/O 20.11.93 A/C TO M.K.
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 08.10.1993 | | |
| Last Lift: | 18.05.1989 | | |
| SW Service Mileage: | 775049 KM | SW Service Date: | 15.04.1993 |
| A Service Mileage: | 841324 KM | A Service Date: | 10.08.1993 |
| B Service Mileage: | 718425 KM | B Service Date: | 15.12.1992 |
| C Service Mileage: | 656878 KM | C Service Date: | 01.07.1992 |
| D Service Mileage: | 796019 KM | D Service Date: | 21.05.1993 |
| E Service Mileage: | 520693 KM | A Service Date: | 26.09.1991 |
| F Service Mileage: | 0 KM | A Service Date: | 18.05.1989 |
| WT Service Mileage: | 781306 KM | WT Service Date: | 03.05.1993 |
| US Service Mileage: | 882909 KM | A Service Date: | 08.10.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**02.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - BLOCKED SANDERS - ALL SANDERS CLEARED & OPERATING OK.'.

**18.07.1989** Service defect: 'A - BATTERY MAINTENANCE - DEAD CELL - BATT.NO.1010 REMOVED A/C DEAD CELL.(NEW 4/89) - BATT NO.6037 INSTALLED.(DL BATTERY)'.

**18.07.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - BRAKES ADJUSTED/UP.'.

**18.07.1989** Service defect: 'A - COOLING SYSTEM - WATER CHANGE - ENGINE BLOCK FLUSHED OUT & RE-FILLED.'.

**18.07.1989** Service defect: 'A - NO FAULT FOUND - DYNAMIC FAULT - OPERRATION CHECKED,LOCO NOT FAULTED.'.

**18.08.1989** Service defect: 'TW - LUBRICATING SYSTEM - BOGIE LUBE - 6 BAGS ADDED PER GEAR CASE.'.

**18.08.1989** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR PLATE TIGHTENED & OIL CLEANED UP,A/C OIL LEAK ON COMPRESSOR.'.

**21.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CHANGED A/C DIFFERENTIAL SETTINGS.'.

**22.08.1989** Service defect: 'UN - LUBRICATING SYSTEM - 2 NEW BOLTS FITTED TO TURBO LUBE FILTER A/C BOLT BROKEN.'.

**09.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**28.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(4&6),5 BAGS(1,2&3),6 BAGS(5).'.

**20.10.1989** Service defect: 'UN - GENERAL - CAB MODS FOR THROUGH RUNNING.'.

**28.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TIMING ADJUSTED ON VIGILANCE A/C OUT, BRAKE PIPE COCK REPAIRED & AIR HOSE 'A' END REPLACED.'.

**28.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN BOLTS ON COW CATCHER REPLACED.'.

**30.10.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - LOSING POWER 1,2,3 NOTCHES.AP2 WIRE FOUND OFF,W/SLIP TRANS-DUCER & WHEELSLIP OPERATION BOTH ENDS OK.MODULE WIRING OK.'.

**05.11.1989** Service defect: 'TW - DYNAMIC BRAKE - WIRE REPLACED ON DYNAMIC BRAKE A/C VIBRATION.'.

**05.11.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 4 BAGS OF CRATER ADDED TO GEAR CASES.'.

**09.11.1989** Service defect: 'C - BOGIE - HAND BRAKE CHAIN REPAIRED A/C BROKEN.'.

**17.11.1989** Service defect: 'TS - BROKEN VALVE - BENT VALVES - N0S9,11&12 CYL HEADS REPLACED.'.

**17.11.1989** Service defect: 'TS - CAM SHAFT - DAMAGED CAMSHAFT - 9-12 SEGMENT REPLACED DUE TO SLIGHT BRUISING OF NO12 EXHAUST LOBES. ALSO CAMSHAFT DOWELS REPLACE'.

**17.11.1989** Service defect: 'TS - ENGINE - CRACKED PISTON - N010 POWER ASSY REPLACED A/C DAMAGED LINER,BENT VALVES ON N010 CYL HEAD, SMASHED PISTON, AND FORK CON'.

**17.11.1989** Service defect: 'TS - ENGINE - ROD AND CARRIER REPLACED A/C DAMAGED. ENGINE OIL CHANGED ANDMICHIANNA AND TURBO FILTERS REPLACED.'.

**17.11.1989** Service defect: 'TS - ENGINE - STRIPPED THREAD - N012 CAMSHAFT BEARING BLOCK HOLD DOWN BOLTREPLACED A/C PULLED THREAD IN ENG BLOCK. THREAD RENEWED.'.

**27.11.1989** Service defect: 'UN - AIR CONDITIONING - BROKEN PIPE - LOW PRESSURE PIPE REPLACED & UNIT RE-GASSED.'.

**08.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. WORN BLOCKS - ALL BRAKE BLOCKS REPLACED & BRAKES ADJUSTED.'.

**16.01.1990** Service defect: 'A - TO BE PROFILED A/C L.4(8),L.5(9.5)FLANGES. (16/1)'.
**09.02.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**09.02.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO INSTALLATION COMPLETED.'.
**28.02.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - GROUND RELAY - T/MOTORS CHECKED OK, H.T. MEGGERED 20 M.OHM, MAIN ALT. DIODES & FUSES OK, CONTACTORS OK.'.
**24.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.
**04.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HARMON FUEL TESTS - COMPLETED.'.
**09.04.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - REVS HIGH IN IDLE - 'A'VALVE MICRO/SWITCH REPLACED. (NOTCH 2 TO IDLE)'.
**20.04.1990** Service defect: 'A - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED.'.
**06.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(2&6),4 BAGS(5),5 BAGS(1,3&4).'.
**09.06.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - WIRING REPAIRED ON 121 BOARD 'B'END. - ENG/ROOM LIGHT SWITCH REPLACED.'.
**17.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**21.06.1990** Service defect: 'D - TO BE PROFILED A/C R.1 FLANGE (9). (21/6)'.
**22.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**22.06.1990** Service defect: 'UN - FUEL TANK PLUG LEAKING.P/A ADVISED.'.
**06.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE BOOKED FAULTY,CHECKED OK.'.
**17.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**20.07.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. SEIZED ADJUSTER - R.2 SLACK/ADJUSTER REPLACED.'.
**20.07.1990** Service defect: 'UN - EXHAUST - BLOWN JOINT - EXPANSION JOINT TO TURBO REPLACED.'.
**23.07.1990** Service defect: 'UN - BOGIE - L2 SLACK ADJUSTER CHANGED A/C SEIZED.'.
**29.07.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - NEW RESILIANTS INSTALLED 'B'BOGIE.'.
**29.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - VALVE FAULTY - D/SIDE NO.2 SANDER VALVE REPLACED.'.
**06.08.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**18.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**18.08.1990** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - WHEEL READING - TAKEN AFTER PROFILE COMPLETED.'.
**30.08.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BOOKED FOR GROUND RELAYS.3 BRUSHES REPLACED NO4 TM A/C SHORT2 BRUSHES REPLACED NO2 TM A/C BROKEN BRAIDS.NO1 TM CLEANED.'.
**13.09.1990** Service defect: 'TS - ALTERNATOR - NO POWER - SLIP/RINGS REPLACED.(BURNT & BRUSH/HOLDER BURNT)'.
**27.09.1990** Service defect: 'UN - BOGIE - BOGIES CHECKED, OK IN DEPOT.'.
**16.10.1990** Service defect: 'UN - BOGIE - BOGIES CHECKED OK A/C BOOKED FOR ROUGH RIDING.'.
**16.10.1990** Service defect: 'UN - VIGILANCE - VIGILANCE TIMING RESET TO 95 SECONDS.'.
**20.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**04.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**04.11.1990** Service defect: 'TW - NO FAULT FOUND - ROUGH/RIDING - NO FAULT EVIDENT.'.
**12.11.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**02.12.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. BROKEN STRAP - O/SIDE NO.4 INNER BRAKE STRAP REPLACED.'.
**07.12.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING - NEW SET SKF RESILIANT RUBBERS INSTALLED. - LATERAL CLEARANCES CHECKED OK.'.
**07.12.1990** Service defect: 'SW - OTHER BODY REPAIRS - COW/CATCHER - 'A'END D/SIDE COW/CATCHER SECTION RE-FITTED.'.
**16.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**16.12.1990** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDER BOX - TEMP.REPAIRS TO R.1 SANDER BOX A/C RUSTED OUT.'.
**16.12.1990** Service defect: 'TW - R.1 SANDER BOX RUSTED. (16/12)'.
**17.12.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - LOCO CHECKED OK.'.
**19.12.1990** Service defect: 'C - AIR CONDITIONING - UNIT - REGASSED.'.
**19.12.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 5 BAGS(2,3,4&6),6 BAGS(1&5).'.
**19.12.1990** Service defect: 'C - TO BE PROFILED A/C R.2 FLANGE (8). (19/12)'.
**21.01.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER CHANGED.'.
**27.01.1991** Service defect: 'UN - DRIVER FAULT - FILTERS CLEANED/REPLACED A/C LOCO RAN OUT OF FUEL.'.
**13.02.1991** Service defect: 'UN - AIR CONDITIONING - NEW COMPRESSOR FITTED,GLAND PACKING ON SERVICE VALVES WAS REPLACED,NEW DRIER FITTED,UNIT REGASSED AND CHECKED OK.'.
**13.02.1991** Service defect: 'UN - BOGIE - L1 SHOCKER RUBBERS RENEWED,L5 BRAKE BAR REPLACED'.
**13.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO 1 TRACTION MOTOR CAP REPLACED'.
**19.02.1991** Service defect: 'UN - OTHER BODY REPAIRS - R/H WINDOW 'A'END REPLACED.A/C BROKEN.WIPER BLADE REPLACED.'.
**06.03.1991** Service defect: 'A - BOGIE - NO5 GEAR CASE WELDED,A/C CRACKED.'.
**06.03.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L3,4 & 5 & R4 WICKS REPLACED,OILS DRAINED & REPLACED.'.

**06.03.1991** Service defect: 'A - 'A'END OBS SIDE WIPERMOTOR U/S,NIL STOCK.'.
**18.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO TAKEN OFF AL19,A/C EXISTING ONE NOT WORKING.'.
**18.04.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO1 T/M CLEANED UP & 1 BRUSH HOLDER REPLACED,A/C FLASH OVER.'.
**30.04.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - THIN WHEELS - O/HAULED BOGIES INSTALLED. 'A'BOGIE CL103 'B'BOGIE CL104'.
**30.04.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - COMPLETED,ALL OK.'.
**10.05.1991** Service defect: 'B - BOGIE - 'A' BOGIE LOCKING PIN FITTED.'.
**10.05.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - COMP SAFETY VALVE REPLACED.'.
**10.05.1991** Service defect: 'B - OTHER BODY REPAIRS - DRIVERS WINDOW SEAL REPLACED.'.
**10.05.1991** Service defect: 'B - RADIATOR/PRESSURISING FAN - 1 RAD FAN REPLACED,A/C NOT WORKING.NO3 SHROUD/COVER REPLACEDA/C MISSING.'.
**24.05.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN FLOW METER PIPE - FLOW METER PIPE REPLACED. (FAILED TRAIN NO.3PS2)'.
**14.06.1991** Service defect: 'UN - GENERAL - OBS FRONT WINDOW REPLACED.'.
**22.07.1991** Service defect: 'UN - OBS SIDE FRONT WINDOW TO REPLACE, A/C CRACKED.22/7'.
**26.07.1991** Service defect: 'A - GENERAL - MIRROR REPLACED.'.
**26.07.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDERS CLEARED.'.
**02.09.1991** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC - POWER IN DYNAMIC CHECKED OK. - POWER IN EACH DIRECTION CHECKED OK.'.
**02.09.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - NO POWER - N5 WIRE REPAIRED.(WIRE TO FRAME) - CR26D REPLACED.(SHORTED),FAILED TRN.NO.7AP1.'.
**11.09.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - COUPLER PACKAGE CHECKED OK FOR TRAFFIC,NO EVIDENCE OF MAJOR CRACKS FOUND.'.
**11.09.1991** Service defect: 'SW - OTHER BODY REPAIRS - 'A'END OBS SIDE FRONT WINDOW REPLACED,A/C CRACKED.'.
**16.09.1991** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER REPS COMPLETED.'.
**26.09.1991** Service defect: 'E - ENGINE - NO.16 POWER ASSEMBLY REPLACED. A/C BROKEN RING.'.
**26.09.1991** Service defect: 'E - 2 EXHAUST EXPANSION JOINTS CRACKED,TO BE MONITORED'.
**02.10.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON.REPAIRED.'.
**02.10.1991** Service defect: 'UN - 'A'END PACKAGE CRACKED,TO MONITOR.'.
**18.10.1991** Service defect: 'UN - BOGIE - WEAR PLATE L1 REPLACED.'.
**18.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'PACKAGE CHECKED OK.'.
**18.10.1991** Service defect: 'UN - RADIATOR TO CHANGE NEXT SERVICE.FUEL TANK PLUG'.
**18.10.1991** Service defect: 'UN - LEAKING.18/10.'.
**26.02.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE OPERATOR CHECKED IN YARD.CUT OUT CIRCUIT BREAKER RESET BACK IN.LOCO TESTED OK.'.
**13.03.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - INERTIAL AIR FILTER METER REINSTALLED.'.
**21.04.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 'A'END B.C.AMMETER CHANGED.SAFETY CONTROL LIGHT HOLDER CHANGED 'A'END.HOT LUG ON ENGINE ROOM CIRCUIT IN AC BOARD'.
**21.04.1992** Service defect: 'A - ENGINE - NO 2 POWER ASSEMBLY CHANGED,A/C WATER LEAK.'.
**21.04.1992** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED,A/C SLOW RUN DOWN TIME.AUX GEN SHAFT & TURBO LATCH FITTED.IN-10/87-10566.OUT-75-F1-1199.'.
**21.04.1992** Service defect: 'A - 'B'END COUPLER TO MONITOR.21/4.'.
**17.06.1992** Service defect: 'SW - AIR CONDITIONING - AIR COND. COMPLETE.'.
**01.07.1992** Service defect: 'C - BOGIE - L4 AXLE SUPPORT BEARINGS CHANGED. L4 SLACK ADJUSTER REPLACED.'.
**01.07.1992** Service defect: 'C - DYNAMIC BRAKE - DYNAMIC BRAKE BLOWER OBS. SIDE BRUSH HOLDER REPAIRED. BRUSH REPLACED.-COMM. CLEANED.'.
**01.07.1992** Service defect: 'C - ELECTRICAL MISCELLANEOUS - ONE LAMP HOLDER REPLACED IN ENGINE ROOM.'.
**01.07.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - 35 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.
**01.07.1992** Service defect: 'C - VIGILANCE - VIG. CONTROL FAULT REPAIRED.'.
**13.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - 'A'END D/SIDE WINDOW REPLACED A/C BROKEN.'.
**28.07.1992** Service defect: 'TS - TRACTION MOTOR - NO.1 T/M CHANGED.A/C COMMUTATOR SEGMENT MISSING.'.
**28.08.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO.1 WHEEL SET CHANGED A/C WORN GEAR.'.
**28.08.1992** Service defect: 'SW - VIGILANCE - 3 WAY SOLENOID VALVE REPLACED.'.
**22.09.1992** Service defect: 'A - EXHAUST - ONE EXHAUST EXPANSION JOINT REPLACED,A/C CRACKED.'.
**22.09.1992** Service defect: 'A - P4 & P5 CONTACT TIPS TO CHECK NEXT SERVICE,A/C'.
**22.09.1992** Service defect: 'A - VERY ROUGH.NIL STOCK MPC.'B'END OBS/SIDE WINDOW TO'.
**22.09.1992** Service defect: 'A - REPLACE,CRACKED.22/9.'.
**20.10.1992** Service defect: 'UN - ENGINE - TURBO & EXHAUST MANIFOLD TO BLOCK GASKET CHANGED,A/C LEAKING'.
**20.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TEST COCK STEINS WELDED.'.
**08.12.1992** Service defect: 'UN - ENGINE - AFTERCOOLER DUCT LHS CHANGED.'.
**08.12.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 6 & 10 CYLINDER HEADS CHANGED.'.
**08.12.1992** Service defect: 'UN - ENGINE WATER LEAK - LH

AFTERCOOLER COVER GASKET REPLACED, A/C WATER LEAK. LOCO STARTED UP & RUN OK.'.

**15.12.1992** Service defect: 'B - TRACTION MOTOR - CHANGED TOP BRUSH HOLDER IN NO 6 T/MOTOR, A/C LOOSE HAMMERS.'.

**21.12.1992** Service defect: 'UN - AIR CONDITIONING - H.P. RESET ON A/CON, A/C AIR CON U/S.'.

**08.03.1993** Service defect: 'A - ENGINE CYLINDER HEADS - 'O'RINGS REPLACED ON ELBOWS 3,5 & 14, A/C LEAKS.'.

**08.03.1993** Service defect: 'A - EXHAUST - 3-4,11-12 EXHAUST MANIFOLD GASKETS RENEWED.'.

**08.03.1993** Service defect: 'A - FUEL SYSTEM INJECTORS - NO 14 INJECTOR CHANGED, A/C WET HEAD]'.

**01.04.1993** Service defect: 'UN - BOGIE - R2 & R3 BRAKE SLACK ADJUSTERS CHANGED.'.

**01.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO COMMUTATOR & BRUSH HOLDER CHANGED,A/C U/S.'.

**15.04.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - LATERAL CHECK & ADJUSTMENT COMPLETION ON NO 3 AXLE,A/C FLANGE WEAR. ADJUSTED TO 10.1MM.'.

**21.05.1993** Service defect: 'D - BOGIE - R5 BRAKE STRAP REPLACED.'.

**21.05.1993** Service defect: 'D - ELECTRICAL MISCELLANEOUS - COUPLER LIGHT 'A'END SECURED.'.

**21.05.1993** Service defect: 'D - MECHANICAL EQUIPMENT COUPLER - UNCOUPLING ROD 'A'END REPAIRED.'.

**21.05.1993** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - HAND BRAKE REPLACED.'.

**21.05.1993** Service defect: 'D - OTHER BODY REPAIRS - 'A'END COW CATCHER STRAIGHTENED.'.

**10.08.1993** Service defect: 'A - DYNAMIC BRAKE - GRIDS & DYN EQUIPMENT INSPECTED,CHECKED OK.'.

**10.08.1993** Service defect: 'A - GENERAL - 'B'END HOT PLATE REPAIRED.'.

**10.08.1993** Service defect: 'A - MECHANICAL EQUIPMENT - HAND BRAKE CHAIN REPLACED.'.

**10.08.1993** Service defect: 'A - NO 1 T/M TO MONITOR,A/C COMM MARKED BY COPPER'.

**10.08.1993** Service defect: 'A - LEADS RUNNING ON IT.10/8.L1 & R1 RADS TO MONITOR'.

**10.08.1993** Service defect: 'A - A/C LEAKING.10/8.'.

**06.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - B.P.LEAK - TRAIN PIPE FITTINGS REPLACED UNDER 'B'END CAB. 'A'END IND/BRAKE VALVE REPLACED. BRAKES TESTED NO B/P LEAKS.'.

**15.09.1993** Service defect: 'TS - GENERAL - RECONDITIONED HOT PLATE FITTED TO 'A'END.'.

**15.09.1993** Service defect: 'TS - LUBRICATING SYSTEM - OIL LINE FROM GOVERNOR TO TURBO REPAIRED, A/C SPLIT PIPE.'.

**08.10.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATED AT NOTCH 8 AT 105KPH. G/RELAY OPERATED IN NOTCH 8 AT 47KPH. LOCO WAS FAILED.'.

**08.10.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED A/C SHORT OR PULLED PIGTAILS.'.

**AL 24**

Details: locomotive 'AL 24 X' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $691470
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 10
**Date Built:** 22.07.1977
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** W/O 20.11.93;SOLD MK 30.09.93
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 01.09.1993 | | |
| Last Lift: | 05.09.1989 | | |
| SW Service Mileage: | 596165 KM | SW Service Date: | 21.10.1992 |
| A Service Mileage: | 800439 KM | A Service Date: | 01.09.1993 |
| B Service Mileage: | 644006 KM | B Service Date: | 07.01.1993 |
| C Service Mileage: | 745379 KM | C Service Date: | 10.06.1993 |
| D Service Mileage: | 246298 KM | D Service Date: | 13.11.1990 |
| E Service Mileage: | 555109 KM | A Service Date: | 24.07.1992 |
| F Service Mileage: | 0 KM | A Service Date: | 05.09.1989 |
| WT Service Mileage: | 679138 KM | WT Service Date: | 03.03.1993 |
| US Service Mileage: | 754224 KM | A Service Date: | 27.06.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**05.09.1989** Service defect: 'F - ALTERNATOR - ALT. O/HAULED. AUXILLARY ALT. O/HAULED. ALL CONTACTORS CHECKED AND O/HAULED WHERE NECESSARY.'.

**05.09.1989** Service defect: 'F - BATTERY MAINTENANCE - NEW BATTERIES FITTED. BATTERY LIFTING MOD. COMPLETED. HARMON SELECTA POWER UNIT FUEL SAVING DEVICE FITTED.'.

**05.09.1989** Service defect: 'F - DYNAMIC BRAKE SETTING - DR 13 U/S. HAD IRREGULAR FEED BACK SIGNAL. DUE TO BAD CONNECTION.'.

**05.09.1989** Service defect: 'F - ENGINE - ENG. EX BL 29 O/HAULED AND INSTALLED. SER.NO. 74-H3-9256. LUBE OIL PUMP MODIFIED.SCAVENGING PUMP OVERHAULED.'.

**05.09.1989** Service defect: 'F - ENGINE - LOAD TESTED OK 3060 H.P. MECHANICALLY BONDED RADIATORS INSTALLED. W/WASHERS FITTED A END.'.

**05.09.1989** Service defect: 'F - ENGINE - POWER ASSEMBLIES OVERHAULED SOME OVERWIDTH RINGS FITTED. CRANK DRIVE, NO. 1 IDLER GEAR AND ACC. DRIVE GEAR RENEWED.'.

**05.09.1989** Service defect: 'F - ENGINE - TWO CAMSHAFTS REPLACED (1-4) AND (9-16). NEW MAIN,BIG END, AND CAMSHAFT BEARINGS FITTED. WATER PUMPS O/HAULED. ENGINE'.

**05.09.1989** Service defect: 'F - RADIATOR/PRESSURISING FAN - RADIATOR AND DYNAMIC BRAKE FANS OVERHAULED. VIGILANCE BUTTONAND MARKER LIGHT MODS. COMPLETED.'.
**22.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**09.10.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(6),5 BAGS(2,4&5),6 BAGS(3),7 BAGS(1'.
**13.10.1989** Service defect: 'UN - TO BE RE-ROSTERED FOR COMPLETION OF CAB MODS. FOR'.
**13.10.1989** Service defect: 'UN - THRU WORKING. (13/10)'.
**20.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COUPLING LIGHTS INSTALLED.'.
**24.10.1989** Service defect: 'TS - DYNAMIC BRAKE - DE,DR,DG MODULES QUALIFIED & TEST RUN OK.,A/C DYN BRAKE POWER FLUCTUATING.'.
**24.10.1989** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - COUPLING LIGHTS REPAIRED 'B' END A/C LT EARTH.'.
**24.10.1989** Service defect: 'TS - LUBRICATING SYSTEM - LUBE CHECK - 5BAGS OF CRATER ADDED TO EACH GEAR CASE.'.
**11.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER PIPE REPAIRED A/C BROKEN.'.
**20.11.1989** Service defect: 'UN - OTHER BODY REPAIRS - D/SIDE DOOR LOCK REPAIRED.'.
**22.11.1989** Service defect: 'UN - DYNAMIC BRAKE - NO DYN BRAKE - BKS SWITCH REPLACED A/C FAULTY.'.
**25.11.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.
**25.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**03.01.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,3,4&6),6 BAGS(5).'.
**17.01.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - - COUPLING LIGHT COVERS & GLOBES REPLACED. * COLLISION OCCURED NURINA *'.
**17.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - COLLISION REPAIRS - ALL BRAKE HOSES REPLACED 'A'END. INCIDENT NO.TD61 - BRAKE PIPE & M/RESERVOIR COCKS REPLACED.'.
**25.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**02.02.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**08.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**22.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**22.03.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN HOSES - CONTROL HOSES 'A'END O/SIDE REPLACED. - (LOCO CLEANED/UP BULLOCK)'.
**02.04.1990** Service defect: 'WT - BRAKES TO ADJUST'.
**03.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**11.04.1990** Service defect: 'SW - OTHER BODY REPAIRS - COW/CATCHER - 'B'END COW/CATCHER PEAK FITTED.'.
**19.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - BENT STEP - 'A'END D/SIDE STEP STRAIGHTENED.'.
**19.04.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT - ??'.
**24.04.1990** Service defect: 'UN - FUEL SYSTEM - HARMON FUEL TESTS - COMPLETED.'.
**30.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**30.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HARMON FUEL TESTS - COMPLETED.'.
**01.05.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 4 BAGS(1&5),5 BAGS(2,3,4&6).'.
**01.05.1990** Service defect: 'C - TO BE PROFILED A/C R.4 FLANGE (8). (1/5)'.
**21.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.
**21.05.1990** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - BLOCKED SANDERS - CLEARED & TESTED OK.'.
**01.06.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - - P.F.MODULE QUALIFIED. - TEST RUN COMPLETED.'.
**01.06.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - BACKWARD TRANSITION FAULT - TR11 REPLACED A/C FAULTY. - MODULE WIRING CHECKED OK.'.
**10.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**22.06.1990** Service defect: 'UN - GENERAL - 'A'END DAMAGED SECTION OF PILOT(BOTTOM)REMOVED.TO BE REPAIRED AT PT AUGUSTA.'.
**22.06.1990** Service defect: 'UN - BOTTOM OF 'A'END PILOT TO REPLACE.22/6*'.
**25.06.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(3&4),5 BAGS(1,2,5&6).'.
**25.06.1990** Service defect: 'A - OTHER BODY REPAIRS - 'THRU'RUNNING MODS - COMPLETED. 'A'END COW/CATCHER - REPAIRED.'.
**08.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 4 BAGS ADDED TO EACH CASE.'.
**15.07.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH CASE.'.
**23.07.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS(2-5),6 BAGS(1).'.
**12.08.1990** Service defect: 'UN - BOGIE - - SUPPORT BEARINGS & AXLE/BOX LEVELS TOPPED/UP LUBRICANT CHECK - 10 BAGS ADDEED TO EACH G/CASE.'.
**12.08.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - NEW SET RESILIANT RUBBERS INSTALLED. (BOGIE NOISE)- BOGIE CENTRES LUBRICATED.'.
**14.08.1990** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - BOOKED FOR EARTH ON POWER.RETURNED TO PT AUGUSTA FOR REPAIRS'.
**14.08.1990** Service defect: 'TS - EARTH ON POWER PT.AUG.ADVISED.'.
**15.08.1990** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.2&5 T/MOTOR WIRE REPAIRED.(TO FRAME)'.
**10.09.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND FAULT - UNIT RE-GASSED & FUSE REPLACED.(BLOWN)'.

**10.09.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 7 BAGS ADDED TO EACH G/CASE.'.
**17.09.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1),5 BAGS(2),6 BAGS(3,4,5&6). RESILIANT RUBBERS - R.4&5 REPLACED.(WORN)'.
**21.09.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - MODIFICATION - SPEEDO WIRING TO RECORD KMS WHEN HAULED OK.'.
**29.09.1990** Service defect: 'UN - FUEL SYSTEM LINES - HOLED FUEL LINE - PIPE FROM SECONDARY FILTER TO MANIFOLD - REPAIRED.'.
**07.10.1990** Service defect: 'UN - BOGIE - 6 BAGS PER CASE'.
**07.10.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - A-END PULL METER REPLACED,NO SPARES FOR B-END'.
**20.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.
**13.11.1990** Service defect: 'D - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. ROUGH/RIDING -'.
**13.11.1990** Service defect: 'D - TO BE PROFILED A/C R.4 FLANGE (8). (13/11)'.
**14.11.1990** Service defect: 'WT - BRAKES TO ADJUST'.
**24.11.1990** Service defect: 'UN - AIR CONDITIONING - UNIT NOT WORKING - 'A'END VENT/COOL SWITCH REPLACED. - AIR/COND OPERATION CHECKED OK.'.
**08.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACHJ G/CASE.'.
**30.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**28.01.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - WHEEL CHANGE - NO4 WHEEL SET CHANGED A/C SHARP FLANGE.'.
**28.01.1991** Service defect: 'A - BROKEN VALVE - BROKEN VALVE - NO16 HEAD REPLACED.'.
**04.02.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1 T/MTR CLEANED/UP A/C FLASHED.'.
**16.02.1991** Service defect: 'UN - OTHER BODY REPAIRS - MAIN RES. - REPAIRS COMPLETED.'.
**01.03.1991** Service defect: 'UN - BOGIE - NO4 AXEL BEARING REPLACED A/C L4 HOT BOX.'.
**01.03.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 4 WHEELSET CHANGED OUT.'.
**18.06.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - CHANGED 1 DIODE & FUSE ON ALTERNATOR.CHANGED 'A'END AMMETER.'.
**18.06.1991** Service defect: 'A - NOTCH 8 VOLTAGE TO CHECK,D/B TO CHECK.18/6.'.
**11.09.1991** Service defect: 'C - ALTERNATOR - 4 BRUSHES CHANGED MAIN ALT.'.
**11.09.1991** Service defect: 'C - AUXILLARY MACHINES - 8 BRUSHES CHANGED AUX GEN.'.
**11.09.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 4 WICKS REPLACED.'.
**11.09.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES TANK REPLACED.'.
**11.09.1991** Service defect: 'C - TRACTION MOTOR BRUSHES - 21 BRUSHES CHANGED,A/C CONDEMNING LENGTH.'.
**10.10.1991** Service defect: 'UN - 121 BOARD TO MARKER LIGHTS TO RE-WIRE.'.
**04.11.1991** Service defect: 'UN - BOGIE - BOGIES SWAPPED WITH BOGIES FROM CL 13.IN-A END CL 108,B END CL 136.OUT-AL109,B END-CL119.'.
**04.11.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO 6 T/MOTOR CHANGED,A/C EARTH.NEW MOTOOR FITTED,OLD BEARINGS & ORGINAL WHEELS.'.
**05.11.1991** Service defect: 'A - BLOCKED FILTERS - MICHIANA & TURBO FILTERS CHANGED. A/C 28 PSI.'.
**05.11.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS BURNT WIRING - 'B'END MARKER LIGHT WIRING REPLACED. A/C BURNT.'.
**05.11.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE PRESSURE ADJUSTED. A/C TOO LOW.'.
**20.11.1991** Service defect: 'UN - VIGILANCE - VIGILANCE FAILURE - REPAIRED & TESTED OK.'.
**26.11.1991** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC CHECKED OK.'.
**26.11.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - REPLACED WIRE XC67 ON T4.'.
**26.11.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - T/MOTOR'S CHECKED,MINOR SPARKING ON ALL BRUSHES BUT OK.ALT CHECKED OK GRIDS CHECKED OK,A/C GR'S.'.
**18.12.1991** Service defect: 'TS - AIR CONDITIONING - CHANGED COMP - DISCONNECTED 'B'END DUE TO SOLENOID FAULT,NILSPARES.LEAK TESTED OK.RECHARGED R12 - TESTED RUNNING OK.AIR'.
**31.12.1991** Service defect: 'UN - AL 24 SENT TO PT.AUGUSTA TO HAVE GOVERNOR REPAIRS'.
**31.12.1991** Service defect: 'UN - CARRIED OUT.'.
**30.01.1992** Service defect: 'TS - ENGINE - NO 12 POWER ASSEMBLY REPLACED,A/C CRANKCASE EXPLOSION.'.
**30.01.1992** Service defect: 'TS - ENGINE PROTECTION - ENGINE PROTECTION DEVICE REPLACED,A/C BLOWN DIAPHRAM.'.
**25.03.1992** Service defect: 'UN - NO FAULT FOUND - DYNAMIC BRAKE FAULT.SENT ON TEST RUN.-NO FAULT FOUND. AL18 OPERATES THE SAME.-SENT TO QUICK FIX AFTER TRIAL RUN.'.
**16.04.1992** Service defect: 'UN - DYNAMIC BRAKE - LOCO RELEASED TO TRAFFIC WITH D/B CUT OUT.'.
**01.05.1992** Service defect: 'A - DYNAMIC BRAKE - D/BRAKE OPERATION NOT WORKING.REPAIRED OK.'.
**01.05.1992** Service defect: 'A - VIGILANCE - STICKING VIGILANCE BUTTON REPAIRED OK.'.
**01.05.1992** Service defect: 'SW - TRACTION MOTOR EARTH - NO. 1 TRACTION MOTOR CHANGED.'.
**15.05.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - 1 T/M BRUSH CHANGED ON NO 6 T/MOTOR,A/C PULLED PIGTAIL.'.
**02.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE TEST OK.'.
**02.06.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - 2 BRUSH HOLDERS REPLACED IN NO 6 T/MOTOR.T/M CREEPAGE SURFACES PAINTED.'.
**02.06.1992** Service defect: 'UN - VIGILANCE - VIG PROBLEM REPAIRED,STICK IN RELAY REPLACED,A/C NOT PULLINGIN + EXCESSIVE AIR GAP.LOCO MEGGERED & MOVEMENT TESTED OK.'.
**12.06.1992** Service defect: 'TS - ENGINE CYLINDER HEADS - NO 10 CYL HEAD REPLACED,A/C BROKEN VALVE.LOCO CHECKED OK.'.
**10.07.1992** Service defect: 'TS - BOGIE - BOGIES LUBED. LATERAL CLEARANCES CHECKED OK.'.

**10.07.1992** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO.6 T/M CHANGED OUT A/C FLATS ON COMMUTATOR CAUSED FLASHOVER.'.
**24.07.1992** Service defect: 'E - BOGIE - REPLACED R3 SLACK ADJUSTER. RESILIENT RUBBERS REPLACED ON ALL WHEELS A/C U/S.'.
**24.07.1992** Service defect: 'E - BOGIE MAINTENANCE - WICKS - L2 WICK REPLACED.'.
**24.07.1992** Service defect: 'E - ELECTRICAL MISCELLANEOUS - LOW TENSION EARTH REPAIRED.'.
**24.07.1992** Service defect: 'E - FUEL SYSTEM INJECTORS - NOS 1-8 INJECTORS CHANGED.'.
**24.07.1992** Service defect: 'E - MECHANICAL EQUIPMENT SANDING GEAR - 'A'END SALEM VALVE REPLACED A/C BLOWING.'.
**24.07.1992** Service defect: 'E - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.'.
**06.08.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO.2 WHEELSET REPLACED A/C BEARING FAILURE. ALL BOGIE WHEELSETS LUBED.'.
**10.08.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - P2 ARC SHUTE NOT SEATED CORRECTLY. P2, P5, AND P6 NOT PICKING UP ON TRANSITION TEST. REFITTED ARC SHUTE AND'.
**25.08.1992** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - MARKER LIGHTS REPAIRS. A/C LENSES FELL OFF.'.
**25.08.1992** Service defect: 'SW - NO FAULT FOUND - LOCO AL24 SENT ON TRIAL RUN A/C SUSPECTED FUMES IN CAB AND NOISEY GEARS. TRIAL RUN FOUND NO FAULTS.'.
**25.08.1992** Service defect: 'SW - OTHER BODY REPAIRS - CAB SEALS ON DOORS AND ELECTICAL CABINETS CHECKED OK.'.
**08.09.1992** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATORS EX DL45 FITTED.'.
**08.09.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER CHANGED A/C OIL IN EXHAUST STACK.'.
**08.09.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO RECORDER CHANGED. ODOMETER RESET TO 568165.'.
**08.09.1992** Service defect: 'TS - VIGILANCE - VIG. BOX REPLACED EX GM TYPE. EX GM14 FROM PT. AUGUSTA.'.
**06.10.1992** Service defect: 'A - ELECTRICAL MISC. HEADLIGHT - HEAD LIGHT REPLACED.'.
**06.10.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - LOAD METER REPLACED.'.
**06.10.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO COLLECTOR REPLACED.'.
**06.10.1992** Service defect: 'A - AUX GEN MOUNTING BOLT SHEARED.6/10.'.
**21.10.1992** Service defect: 'SW - BOGIE - STEPS FITTED TO BOGIES. LOCO MOVEMENT TESTED OK IN POWER & DYN/BRAKE.'.
**07.01.1993** Service defect: 'B - GENERAL - MANUAL POWER RHEOSTAT REPLACED. SPEEDO TRANSMITTER CLEANED A/C OILY.'.
**07.01.1993** Service defect: 'B - 3RD SLIPRING TO WATCH A/C DISCOLOURED.'.
**18.01.1993** Service defect: 'UN - OTHER BODY REPAIRS - NEW STEP MANUFACTURED AND INSTALED.'.
**18.01.1993** Service defect: 'UN - VIGILANCE - VIGILANCE CONTROL SYSTEM TESTED.'.
**23.03.1993** Service defect: 'A - AUXILLARY MACHINES - AUX GEN MOUNTING BOLT REPLACED, A/C BROKEN.'.
**02.04.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS INSPECTED,A/C WATER LEAK & SLIGHT LEAK BUT OK TO WORK.'.
**02.04.1993** Service defect: 'UN - VIGILANCE - VIG AIR LEAK - 3 WAY SOLENOID REMOVED,STRIPPED & CLEANED. VIG TESTS OK.'.
**08.04.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER CHANGED.'.
**08.04.1993** Service defect: 'UN - NO FAULT FOUND - DYNAMIC/POWER FAULT,CHECKED OK IN DEPOT. SPEEDO CHECKED OUT OK,COULD NOT FAULT.'.
**26.05.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO DUCT REPAIRS COMPLETED.'.
**26.05.1993** Service defect: 'TS - GENERAL - MINOR REPAIRS COMPLETED.'.
**01.06.1993** Service defect: 'UN - TRACTION MOTOR - NO.6 T/M REPLACED. ALL REMAINING T/M'S SERVICE WITH NUMEROUSBRUSHES CHANGED.-NO.6 T/M CHANGED A/C INTERPOLE U/S.'.
**10.06.1993** Service defect: 'C - GENERAL - BOTH MIRRORS 'A'END REPLACED. W/SCREEN WIPER MOTOR D/SIDE 'A'END & 'B'END OBS/SIDE REPLACED.'.
**10.06.1993** Service defect: 'C - DYN/BRAKE - NO EXTENDED RANGE.10/6.'.
**27.06.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 14 HEAD CHANGED,A/C DROPPED VALVE.'.
**01.09.1993** Service defect: 'A - ENGINE WATER LEAK - WATER LEAKS FROM HOSES LEADING FROM HEADER TANK TO WATER PUMP PIPES TIGHTENED.'.
**01.09.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END D/SIDE BRAKE PIPE COCK REPLACED.'.
**01.09.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED ON NO'S 1 - 5 T/M'S, A/C CONDMENING LIMIT.'.

**AL 25**

Details: locomotive 'AL 25 R' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $691470
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 10
**Date Built:** 24.08.1977
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** W/O 18.12.93;SOLD TO M.K.
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 10.11.1993 | | |
| Last Lift: | 08.04.1988 | | |
| SW Service Mileage: | 146422 KM | SW Service Date: | 01.09.1993 |
| A Service Mileage: | 129568 KM | A Service Date: | 15.07.1993 |
| B Service Mileage: | 164933 KM | B Service Date: | 07.10.1993 |
| C Service Mileage: | 103996 KM | C Service Date: | 22.04.1993 |
| D Service Mileage: | 8971 KM | D Service Date: | 15.05.1992 |
| E Service Mileage: | 510807 KM | A Service Date: | 17.08.1990 |
| F Service Mileage: | 0 KM | A Service Date: | 08.04.1988 |
| WT Service Mileage: | 97160 KM | WT Service Date: | 19.03.1993 |
| US Service Mileage: | 155870 KM | A Service Date: | 24.09.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**18.08.1989** Service defect: 'TW - LUBRICATING SYSTEM - BOGIE LUBE -3 BAGS IN FRONT GEAR CASES,4 BAGS IN REAR GEAR CASES.'.

**01.09.1989** Service defect: 'A - ELECTRICAL MISCELLANEOUS - B END WATER COOLER C/BREAKER SECURED A/C LOOSE.'.

**18.09.1989** Service defect: 'UN - RADIO REPAIR - UNIT REMOVAL - 'B'END RADIO UNIT REMOVED.'.

**26.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - MODS FOR THROUGH RUNNING COMPLETED.'.

**10.11.1989** Service defect: 'UN - BOGIE - BOGIE CHANGE COMPLETED,A/C TRACTION MOTOR GRIND.'.

**22.11.1989** Service defect: 'UN - TRACTION MOTOR - NO.3.TRACTION MOTOR REPLACED A/C DAMAGED GEAR & PINION.'.

**03.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**03.12.1989** Service defect: 'TW - FUEL SYSTEM - FUEL IN BY/PASS - FUEL FILTERS REPLACED.'.

**15.12.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - - TRANSITION TESTED OK.'.

**15.12.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT - BOBBIN BROKEN ON P1 CONTACTOR.(REPLACED) - R33+CA33 REPLACED A/C DELAY IN TRANSITION'.

**21.12.1989** Service defect: 'UN - GENERAL ACCIDENT - COW/CATCHER REPAIRS - 'B'END FITTED TO 'A'END A/C DAMAGED. - (DAMAGED IN WEST/RAIL)'.

**21.12.1989** Service defect: 'UN - 'B'END COW/CATCHER TO RE-FIT. (21/12)'.

**08.01.1990** Service defect: 'SW - OTHER BODY REPAIRS - COW/CATCHER - RE-FITTED TO 'B'END OF LOCO.'.

**21.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - GENERATOR UNIT RE-BUILT.(COLLECTOR CHANGED)'.

**23.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.

**26.01.1990** Service defect: 'UN - NO FAULT FOUND - WHB SYSTEM CHECKED OK A/C DRIVER BOOKED IND APPLYING WHEN USING AUTOMATIC. IND AND AUTO BRAKE WORKING CORRECTLY.'.

**28.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.

**06.02.1990** Service defect: 'C - BATTERY MAINTENANCE - DEAD CELLS - NEW SET APOLLO BATTERIES INSTALLED. - BATTERY/BOX MODS.COMPLETED ALSO.'.

**10.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CHECK - OPERATION CHECKED OK.'.

**10.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIRS - 'A'END D/SIDE WIND/SCREEN REPLACED. - 'B'END D/SIDE WINDOW REPLACED.'.

**18.02.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - STARTING RESISTOR WIRING REPAIRED.'.

**20.02.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE FAULTY,NIL SPARES RETURNED TO PT AUGUSTA FOR REPAIRS'.

**20.02.1990** Service defect: 'UN - DP12 MODULE TO REPLACE.'.

**21.02.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS(4,5&6).'.

**21.02.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - D.P.MODULE REPLACED.(FAULTY) - MODULE WIRING & CONTACTORS CHECKED OK.'.

**15.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(5),4 BAGS(1),5 BAGS(2,3&6),6 BAGS(4'.

**15.03.1990** Service defect: 'TW - OTHER BODY REPAIRS - SEAT & DOOR REPAIRS - COMPLETED.'.

**27.03.1990** Service defect: 'A - BLOCKED FILTERS - CLOGGED FILTERS - AIR/INTAKE FILTERS CHANGED.'.

**02.04.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH - SWITCH CHANGED A/C NO HIGH BEAM.'.

**02.04.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC RADIO - WILL NOT TRANSMIT, CHECKED BY COMMUNICATIONS UNABLE TO FAULT'.

**12.04.1990** Service defect: 'UN - DYNAMIC BRAKE - BRAKE WARNING LIGHT - DYNAMIC COMPONENTS CHECKED & TESTED OK ILLUMINATED.'.

**12.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK UNDER FLOOR - PIPE WORK REPAIRED & TESTED OK.'.

**22.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**22.04.1990** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - BLOCKED SANDERS - ALL SANDERS CLEARED & OPERATIONAL.'.

**03.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 10 BAGS ADDED TO EACH G/CASE.'.

**08.05.1990** Service defect: 'SW - AIR CONDITIONING - COUPLING FAILURE - COUPLING RE-BUSHED,NEW RUBBERS FITTED.'.

**08.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - GENERATOR UNIT REPLACED.'.

**10.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(1-4),4 BAGS(5&6).'.

**10.06.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEEDO FAULTY - COLLECTOR REPLACED,SPEEDO UNIT RE-BUILT. - OPERATION TESTED OK.'.

**14.06.1990** Service defect: 'UN - OTHER BODY REPAIRS - THRU RUNNING MODS - COMPLETED.'.

**18.06.1990** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & ALL OIL FILTERS CHANGED.'.

**22.06.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(2&4),5 BAGS(1,3,5&6).'.

**22.06.1990** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - 'A'END ENG/ROOM LIGHT SWITCH REPLACED.'.

**17.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.BRAKE PIN LOOSE,NUT,BLOCK & SPLITPIN REPLACED.'.
**20.07.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.DG MODULE RESET A/C TRIPPED.'.
**12.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.
**17.08.1990** Service defect: 'E - BOGIE - LATERAL CLEARANCE - CHECKED OK. - RESILIANT RUBBERS REPLACED.'.
**17.08.1990** Service defect: 'E - ENGINE - LOAD/TEST - COMPLETED.'.
**23.08.1990** Service defect: 'CA - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER BODY REPLACED A END'.
**30.08.1990** Service defect: 'UN - ENGINE - NOTCH 8 REVS IN NOTCH 4.REPLACED MICRO SWITCH IN 'A' CONTROLSTAND.'.
**09.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. BURNT BLOCKS - FULL SET BLOCKS FITTED & BRAKES ADJUSTED.'.
**09.09.1990** Service defect: 'TW - NO FAULT FOUND - BOOKING ON DYNAMIC - OPERATION CHECKED IN DEPOT,NOT FAULTED.'.
**17.09.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 6 BRUSHES REPLACED IN NO2 TM,5 BRUSHES REPLACED IN NO6 TM A/C BLOWN BRUSH PIGTAILS & SHORT BRUSHES,BOTH TM'S CLEANED.'.
**18.09.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS.RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**19.09.1990** Service defect: 'UN - NO.6 T/MOTOR TO REPLACE A/C INT/POLE EARTH.(19/9)'.
**20.09.1990** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.6 T/MOTOR REPLACED.(INT/POLE DOWN)'.
**28.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**03.10.1990** Service defect: 'A - TO BE PROFILED A/C L.6 FLANGE (8) (3/10)'.
**11.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES LHS DENTED.RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**11.10.1990** Service defect: 'UN - MAIN RES LHS FOR REPAIRS A/C DENTED.'.
**19.10.1990** Service defect: 'WT - TO MILE END FOR BRAKE ADJUST'.
**28.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.
**01.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKE BLOCKS REPLACED.'.
**01.11.1990** Service defect: 'UN - WHEELS TO PROFILE'.
**08.11.1990** Service defect: 'UN - FILTER BLOWER C/B TO REPLACE AT P.AUG.'.
**11.11.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - ALL LEVELS CHECKED OK.'.
**11.11.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - C/BREAKER TRIPPING - FILTER BLOWER C/BREAKER REPLACED.'.
**16.11.1990** Service defect: 'UN - AUXILLARY MACHINES - FILTER BLOWER/MOTOR - REPLACED.(TRIPPING C/BREAKER)'.
**16.11.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - BLOWN VALVE - COMPRESSOR SAFETY VALVE REPLACED.(EX.CL3)'.
**15.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**01.02.1991** Service defect: 'TS - ALTERNATOR - D 14 REPLACED.'.
**07.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.3(6) ,R.3(2). - L.4(3+),R.4(3).'.
**07.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.5(2) ,R.5(3). - L.6(6) ,R.6(1). TO BE PROFILED.'.
**07.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(9+),R.1(3). 2 BAGS EACH G/CASE. - L.2(2) ,R.2(5).'.
**07.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - REPAIRS COMPLETED.'.
**07.02.1991** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW - 'B'END D/SIDE WINDOW REPAIRED.'.
**19.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - REWELDED COUPLER WEAR PLATE,'B' END.'.
**19.02.1991** Service defect: 'B - ENGINE PROTECTION DEVICE TO CHANGE.AIR/CON NOT'.
**19.02.1991** Service defect: 'B - WORKING.A/C NOT GASSED.'.
**02.04.1991** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - BRAKE ADJUSTMENT COMPLETED.'.
**02.04.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - HEAD/LIGHT SWITCH REPLACED.('A'END)'.
**08.04.1991** Service defect: 'UN - TRACTION MOTOR - * LOCO PULLING 1200 AMPS WHILE CL11 PULLING 700 AMPS.*'.
**08.04.1991** Service defect: 'UN - TRACTION MOTOR - SMOKE FROM NO.4 T/MTR.- ALL MOTORS CHECKED,MEGGERED OK. - AR10 OK.'.
**19.04.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - LOOSE PIGTAILS NO4 T/M REPAIRED,A/C CONTINUOUS GR'S.'.
**09.05.1991** Service defect: 'UN - TRACTION MOTOR - REPLACED BOTTOM BRUSH HOLDER ON NO4 T/M,A/C U/S.MOTOR CLEANED UP,REPLACED BRUSHES.MEGGERED OK.'.
**14.05.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSHES REPLACED IN TOP BRUSH/HOLDER. - ( BRUSHES SHORT & HAMMER HITTING HOLDER)'.
**14.05.1991** Service defect: 'TS - TRACTION MOTOR - - NO.5 T/MTR.CLEANED/UP.'.
**17.05.1991** Service defect: 'UN - ALTERNATOR - ALTERNATER CHECKED OK.'.
**17.05.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - 30 T/M BRUSHES CHANGED IN T/M'S 2,3,4 & 6.T/M NO 4 ALL BRUSHES HAD PIGTAILS HANGING OUT OR LOOSE,REPLACED TOP BRUSH'.
**05.06.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 4 WHEELSET CHANGED.'.
**05.06.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVENOR CLEANED & REPLACED.'.
**05.06.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - 135 P.S.I. SAFETY VALVE

REPLACED.'.
**05.06.1991** Service defect: 'TS - TRACTION MOTOR - NO 4 T/MOTOR REPLACED,A/C BURNT BRUSH HOLDERS,REPEATED FAILURES,FLASHOVERS ETC. IN-69L1 OUT-89J3NO1.'.
**06.06.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.4 WICK CHECKED.'.
**20.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT'.
**27.06.1991** Service defect: 'UN - TRACTION MOTOR - AA CABLE ON NO 1 T/MOTOR CUT,REJOINED & REINSULATED.'.
**01.07.1991** Service defect: 'UN - AUXILLARY MACHINES - FRIDGE BURNT/OUT - SENT TO M.P.C FOR REPAIRS.'.
**03.07.1991** Service defect: 'C - ENGINE PISTON - NO6 PISTON & LINER REPLACED.'.
**03.07.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 7 SANDERS REPAIRED.'.
**03.07.1991** Service defect: 'C - FRIDGE REMOVED FROM A END DUE TO FAULT & LACK OF'.
**03.07.1991** Service defect: 'C - PARTS.3/7.HEAT EXCHANGER 'O'RING LH SIDE LEAKING.'.
**03.07.1991** Service defect: 'C - 3/7.'.
**05.07.1991** Service defect: 'UN - GENERAL - FRIDGE REPLACED.'.
**11.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - POWER POINT REPAIRED & TESTED OK.'.
**11.07.1991** Service defect: 'UN - GENERAL - TOILET STEAM CLEANED.'.
**23.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET REPLACED, A/C CONDEMNED WHEELS.1/16 OVER SIZEDBEARINGS FITTED A/C AXLE.'.
**31.08.1991** Service defect: 'UN - STARTER MOTOR - TOP STARTER MOTOR REPLACED.CHECKED OK.'.
**02.09.1991** Service defect: 'UN - STARTER MOTOR - ENGINE UNABLE TO START.REPLACED STARTING RESISTOR AND STARTER MOTORS'.
**16.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - POWER POINT REPLACED & ANOTHER ONE REPAIRED,IN QUICK FIX.'.
**19.09.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 3 BRUSHHOLDERS REPLACED IN 4 & 5 T/MOTORS,A/C SPRINGS LOOSE GR'S.'.
**04.10.1991** Service defect: 'A - COOLING SYSTEM - 'O' RING ON OIL COOLER REPLACED.'.
**26.11.1991** Service defect: 'TS - TO M.P.C FOR REPAIRS A/C NO.4 T/M INT/POLE EARTH.'.
**02.12.1991** Service defect: 'SW - BOGIE - DOUBLE LIFT & BOGIE CHANGE COMPLETED.BRAKE STRAPS,HORNSTAYS & SANDING GEAR FITTED.LATERAL CLEARANCES CHECKED & ADJUSTED'.
**02.12.1991** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICKS CHECKED,2 REPLACED.'.
**05.12.1991** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.'.
**05.12.1991** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - ALL WICKS INSPECTED, L2,L3 R3 & R4 WICKS CHANGED,OIL CHANGED'.
**05.12.1991** Service defect: 'SW - TRACTION MOTOR - T/MOTORS CHANGED ACCORDINGLY TO CORRECT POSITIION.'.
**12.12.1991** Service defect: 'B - ENG AIR FILTERS NOT REPLACED ON SERVICE.SERIES /'.
**12.12.1991** Service defect: 'B - PARALLEL CONTACT TIP TO REPLACE.12/12.'.
**31.12.1991** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAKS CHECKED. NO LEAKS FOUND.'.
**31.12.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - NO.3 BRAKE CYLINDER REPLACED.'.
**31.12.1991** Service defect: 'TS - TRACTION MOTOR - NOS 1;2;4;5 &6 T/MS CHECKED OK.'.
**31.12.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO.3 T/M REPAIRED.-COMMUTATOR VEED OUT & PAINTED.2 BRUSH HOLDERS REPLACED.'.
**03.01.1992** Service defect: 'TS - BLOCKED FILTERS - TUBO INTAKE FILTERS BLOCKED.-CHANGED.'.
**03.01.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.3 T/M FLASHED.A/C BRUSHES NOT BEDDED IN.-BRUSHES REPLACED AND T/MS CLEANED. LOCO MEGGERED OK.'.
**20.01.1992** Service defect: 'TS - ENGINE - RACK CHECK - COMPLETED.(ADJUSTMENT OK)'.
**20.01.1992** Service defect: 'TS - ENGINE GOVERNOR - GOVN.CHECK - OK,H/POWER 2760.'.
**20.01.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - CLUTCH CHECK - TESTED 30 TIMES,NO FAILURE.(RUN/DOWN 54SECS) TURBO SCREEN - CLEAR.'.
**20.01.1992** Service defect: 'TS - NO FAULT FOUND - EXCESS SMOKE IN POWER - LOCO LOAD/TESTED,NOT FAULTED. (FAILED TRAIN.NO.2147) - (LOADED FOR 1-1/2 HOURS)'.
**21.02.1992** Service defect: 'A - AIR CONDITIONING - CHECK A/CON.OPERATING OK.'.
**21.02.1992** Service defect: 'A - DYNAMIC BRAKE SETTING - 4 DYNAMIC BRAKE BLOWER BRUSHES CHANGED A/C SHORT.'.
**21.02.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - REPLACED 3 BRUSHES IN SPEDO.'.
**21.02.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - T/MOTOR NO3.NEEDED TO BE UNDERCUT ON COM.REPAIRED.ALSO REPLACED 3 BRUSH HOLDERS IN T/M NO3.'.
**04.03.1992** Service defect: 'UN - AIR CONDITIONING - REFRIGERANT GAS TOPPED UP APPROX 10LBS ADDED'.
**04.03.1992** Service defect: 'UN - AIR COND TO BE CHECKED OUT FOR GAS LEAKS'.
**31.03.1992** Service defect: 'TS - DYNAMIC BRAKE SETTING - D/BRAKE OPEN CIRCUIT.-OCP RESET. GRIDS CHECKED OK.'.
**01.05.1992** Service defect: 'CA - ENGINE - R.H.S.WATER PUMP REPLACED.OK.'.
**01.05.1992** Service defect: 'CA - GENERAL - AIR BOX INSPECTION COMPLEATED.OK.'.
**15.05.1992** Service defect: 'D - ENGINE GOVERNOR MECHANICAL - REPAIRED OIL LEAK.GOVERNOR.'.
**15.05.1992** Service defect: 'D - TRACTION MOTOR FLASHOVER - NO 3 T/M SIGNS OF FLASHOVER,ALL BRUSHES REPLACED & CLEANED &PAINTED.'.
**30.06.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - GFD CONTACTOR REPLACED A/C LOOSE SCREW IN CONTACTOR.'.
**30.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT

SANDING GEAR - AIR LINE FROM MAGNET VALVE TO SANDER REPLACED.-SANDERS'B'ENDCLEARED.'.

**04.08.1992** Service defect: 'TS - GENERAL LOSS OF POWER - LOCO BOOKED AS HAVING NO POWER.-LOCO CHECKED OK IN DEPOT.'.

**14.08.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L5, R1, R2 WICK OILS CHANGED. R5 WICK AND OIL CHANGED A/C WICK DIRTY.'.

**14.08.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - EC1A WIRE ON ER RELAY IN WRONG POSITION. MOD. EMERGENCY STOP ON HANDLE DOES NOT INITIATE 'D'VALVE.-REPAIRED. CR26'.

**28.09.1992** Service defect: 'TS - TO BE SENT TO MPC FOR EXTRACTION OF NO.6 T/MOTOR'.

**28.09.1992** Service defect: 'TS - A/C INTERPOLE DOWN TO EARTH'.

**07.10.1992** Service defect: 'TS - TRACTION MOTOR - NO 6 T/MOTOR REPLACED,A/C ARMATURE TO EARTH.T/M IN-56B1-2101T/M OUT-65F1-1091.'.

**30.10.1992** Service defect: 'B - AIR CONDITIONING - AIR CON CHECKED OK.'.

**30.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE BOLTS & WEAR PLATE REPAIRED.'.

**30.10.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. AIR LEAK REPAIRED 'A'END.'.

**18.01.1993** Service defect: 'TS - ALTERNATOR - GROUND - ALTERNATOR REPLACED.'.

**18.01.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - HIGH MILEAGE - O/HAULED TURBO FITTED.'.

**18.01.1993** Service defect: 'TS - OTHER BODY REPAIRS - ALTERNATOR GUARD REPAIRED OK.'.

**18.01.1993** Service defect: 'TS - VIGILANCE - NEW VIGILANCE CONTROL VALVE INSTALED.EX CL13.TESTED OK.'.

**26.01.1993** Service defect: 'A - BOGIE - RESILIENT RUBBERS CHANGED A/C U/S.'.

**26.01.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - EXTENDED RANGE CONTACTOR HATCH MISSING. REPLACED.'.

**26.01.1993** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET SCREEN CHANGED.BLOCKED WITH CARBON CAUSING LOW POWER.'.

**22.04.1993** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - REPLACED WIRES 5L86 & TK86 FROM 70 BOARD TO DC1 CONTACTOR A/C D/B CIRCUIT PULLING NO AMPS.'.

**22.04.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - M/BRAKE TRANSFER MOTOR REPLACED,A/C LEAKING OIL.'.

**22.04.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS BURNT WIRING - TERMINAL STRIP (A25 B25-A36 B36 70 BOARD)CHANGED A/C BURNT TEMINALS & WIRING,WIRING REPLACED.'.

**15.07.1993** Service defect: 'A - BOGIE - 2 SLACK ADJUSTERS REPLACED,A/C SEIZED.'.

**15.07.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - AIR LINE TO SANDER REPAIRED,A/C SPLIT.'.

**27.07.1993** Service defect: 'SW - BOGIE - 'A'END BOGIE SWAP WITH CL 8 COMPLETED. LOCO MOVEMENT TESTED IN POWER & DYNAMIC.'.

**01.09.1993** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATORS SWAP COMPLETED.'.

**01.09.1993** Service defect: 'SW - RADIATOR/PRESSURISING FAN - RAD FAN OPERATION CHECKED OK.'.

**24.09.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - COMPLETE BRUSH CHANGE ON ALL T/MOTORS CARRIED OUT, A/C GR'S.'.

**07.10.1993** Service defect: 'B - BLOCKED FILTERS - ENGINE AIR FILTERS CHANGED.'.

**07.10.1993** Service defect: 'B - BOGIE - R2, R3 BRAKE ADJUSTERS REPAIRED A/C SEIZED.'.

**07.10.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - CHANGED MAIN RES. 'A' END A/C CRACKED. TRAIN PIPE LEAK REPAIRED.'.

**07.10.1993** Service defect: 'B - OTHER BODY REPAIRS - MIRROR REPAIRED.'.

**07.10.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 3 BRUSHES CHANGED ON NO.1 T/M A/C CONDEMNING LIMIT.'.

**08.11.1993** Service defect: 'TS - BATTERY MAINTENANCE - FLAT BATTERIES - BATTERIES REFILLED AND LOCO STARTED OK. 72.7V.'.

## 2.4 Locomotive classification starting with 'ALC'

### ALCO 852

**24.06.1992** Service defect: 'UN - NO FAULT FOUND - LOW POWER FAULT. TESTED ON LOAD TANK. NO FAULT FOUND.'.

**13.11.1992** Reclassified from locomotive 'ALCO 852 B' to ' locomotive '852 W'.

### ALCO 875

**31.08.1989** Service defect: 'TW - COOLING SYSTEM WATER PUMP - WATER PUMP REPL.'.

**31.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (8) LAMPS REPL.'.

**31.08.1989** Service defect: 'TW - FUEL SYSTEM - FUEL TANK REPAIRED(LEAKING).'.

**31.08.1989** Service defect: 'TW - GENERAL - 'A' SERVICE'.

**16.11.1989** Service defect: 'B - AUXILLARY MACHINES - (2) BRUSHES REPL.'.

**16.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (2) LAMPS REPL.'.

**16.11.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (13) BRUSHES REPL.'.

**16.11.1989** Service defect: 'B - RADIO REPAIR - RADIO NEEDS REPL.(MODIFYING)'.

**16.11.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (6) BRUSHES REPL.'.

**02.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5) GLOBES REPL.'.

**02.08.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 5 MAIN GENERATOR BRUSHES REPL.'.

**02.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE RENWED.'.

**02.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPL.'.

**02.08.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 TRACTION MOTORBRUSHES REPLACED,NO.1 MOTOR CABLES SECURED'.
**06.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY SET REPLACED.'.
**19.05.1992** Repair 'VEHICLE RECLASSIFY'.
**19.05.1992** Issued at location 'Australian National' with a previous code of locomotive '875 T'
**13.11.1992** Reclassified from locomotive 'ALCO 875 V' to ' locomotive '875 T'.

## 2.5 Locomotive classification starting with 'ALF'

**ALF 18**

Details: locomotive 'ALF 18 X' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 129.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 14.01.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED 'CITY OF PORT PIRIE'
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 20.03.1997 | | |
| SW Service Mileage: | 537966 KM | SW Service Date: | 13.03.1997 |
| A Service Mileage: | 57707 KM | A Service Date: | 20.04.1994 |
| B Service Mileage: | 95873 KM | B Service Date: | 17.08.1994 |
| US Service Mileage: | 586511 KM | A Service Date: | 20.01.1997 |

**17.01.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR OVERHEATING A/C BLOCKAGE - CLEARED.'.
**21.01.1994** Service defect: 'UN - AUXILLARY MACHINES - AUXILIARY GENERATOR BLOWER FAN CRACKED - REPLACED'.
**21.01.1994** Service defect: 'UN - GENERAL - AIR FLOW FANS INSTALLED'.
**27.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER RE-PIPED, A/C IN-CORRECTLY PIPED WHEN O/HAULED. PIPES 1 AND 2 SWAPPED OVER.'.
**27.01.1994** Service defect: 'UN - OTHER BODY REPAIRS - OBS. SIDE MIRROR REPLACED WITH MIRROR EX CLP15.'.
**03.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER REPAIRS COMPLETED. PAINT WORK MATCHED UP. DUMMY COUPLINGS REPLACED.'.
**22.04.1994** Service defect: 'UN - ENGINE ROOM - LOCO ENGINE ROOM WASHED.'.
**22.04.1994** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK - SIGHT GLASSES TIGHTENED.'.
**22.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OPERATION CHECKED OK.'.
**02.05.1994** Service defect: 'UN - ENGINE OIL - OIL STRAINER LEAK - REPAIRED'.
**02.05.1994** Service defect: 'UN - GENERAL - DATA LOGGER NOT IN LOCOMOTIVE - NO VIGILANCE UNIT HENCE CUT-OUT COCK CLOSED - NO UNIT SPARE - RELEASED AS TRAILING UNIT.'.
**16.06.1994** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - CABLING REPLACEMENT BETWEEN ELECT CAB AND ACTUATOR CABLING COMPLETED.'.
**16.06.1994** Service defect: 'TS - GENERAL - OBS/SIDE WINDOW WIPER ASSY FITTED.'.
**16.06.1994** Service defect: 'TS - OTHER BODY REPAIRS - DERAILMENT REPAIRS UNDERFRAME - FILTER HOUSING AND BRAKE PIPE REPAIRS COMPLETED.'.
**22.06.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CONTROLLER CIRCLIP DISPLACED - MKCA ADVISED THAT LOCO IS TO TRAIL TO THE MPC.'.
**23.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - CONTROLLER REPAIRED, M & K CARRIED OUT REPAIRS.'.
**14.09.1994** Service defect: 'SW - COMPRESSOR AND STEP MODS COMPLETED OK'.
**14.11.1996** Service defect: 'UN - 0'.
**99.99.9999** Service defect: 'SW - 0'.

**ALF 19**

Details: locomotive 'ALF 19 R' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 129.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 28.01.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 20.03.1997 | | |
| SW Service Mileage: | 529999 KM | SW Service Date: | 10.12.1996 |
| A Service Mileage: | 53242 KM | A Service Date: | 29.04.1994 |
| B Service Mileage: | 79056 KM | B Service Date: | 22.07.1994 |
| WT Service Mileage: | 75898 KM | WT Service Date: | 05.07.1994 |
| US Service Mileage: | 595886 KM | A Service Date: | 20.03.1997 |

**29.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT & CONTROL AIR LINES CROSSED OVER - RECTIFIED.'.
**31.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER VENTURI RIGHTED TO CORRECT POSITION.'.
**07.02.1994** Service defect: 'UN - GENERAL - MKCA REPS INSPECTED AND ALLOWED TO TRAFFIC'.

**02.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO'S REPAIRED - FOUND PINS IN DATA LOGGER PLUG PUSHED AWAY FROM MALE PINS.'.
**02.03.1994** Service defect: 'UN - GENERAL - SOURCE OF HOT AIR UNDER PEDESTALS SEALED UP WITH SILASTIC, FOAM SPRAY AS PER J. MACINTOSH'S APPROVAL.'.
**08.03.1994** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER REPAIRS COMPLETED. COW CATCHER PAINTED AND LOCO SENT TO STOP BOARD.'.
**14.03.1994** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - WIRE SOLDERED TO H/LIGHT FAILURE WARNING CCT AT DIODE, A/C NOT WORKING. WIRE HAD NEVER BEEN CONNECTED.'.
**17.03.1994** Service defect: 'TW - GENERAL - SHIMS REPLACED UNDER COOLER STAND AND BOLTS TIGHTENED. AIR-COND. AIR DEFLECTOR BRACED.'.
**17.03.1994** Service defect: 'UN - AIR CONDITIONING - VIBRATION IN AIR-COND. REGISTER REPAIRED.'.
**17.03.1994** Service defect: 'UN - OTHER BODY REPAIRS - ACCESSORY RACK D/SIDE RE-SHIMMED AND RESECURED.'.
**17.03.1994** Service defect: 'TW - LOCO VIBRATES BADLY IN NOTCH 8 AND VERY NOISY.17/3'.
**20.04.1994** Service defect: 'UN - DYNAMIC BRAKE - DB CONTACTORS U/S - ALLOWED INTO TRAFFIC PROVISO OF NO DYN. BRAKE TO USED - URGENTLY REQUIRED.TO BE REPAIRED 28/4.'.
**06.05.1994** Service defect: 'SW - GENERAL - COMPRESSOR MODIFICATIONS COMPLETED'.
**12.05.1994** Service defect: 'TS - BLOCKED FILTERS - BRAKE RACK IN LINE STRAINER CHANGED, A/C BLOCKED.'.
**12.05.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER RE-PIPED, A/C INCORRECTLY FITTED.'.
**23.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRS TO COUPLING ARM, MAIN RES AND TRAIN PIPE COCKS COMPLETED, A/C HIT BULLOCK.'.
**19.07.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TOP STARTER MOTOR REPLACED,ALSO SUSPECTED SOFT WARE FAULT'.
**22.07.1994** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMMPRESSOR DRAIN MOD COMPLETED'.
**22.07.1994** Service defect: 'B - OTHER BODY REPAIRS - STEP MOD COMPLETED'.

**ALF 20**

Details: locomotive 'ALF 20 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 129.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 11.02.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 10.03.1997 | | |
| SW Service Mileage: | 553726 KM | SW Service Date: | 17.12.1996 |
| A Service Mileage: | 56861 KM | A Service Date: | 18.05.1994 |
| B Service Mileage: | 91553 KM | B Service Date: | 19.08.1994 |
| US Service Mileage: | 598213 KM | A Service Date: | 10.03.1997 |

**21.02.1994** Service defect: 'SW - AIR CONDITIONING - AIR CON REPAIRS COMPLETED AND TESTED BY SIGMA.'.
**23.02.1994** Service defect: 'UN - EXHAUST - EXHAUST BELLOWS,STACK CRACKED,INTERIM MEASURES PERFORMED.'.
**23.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OVERHEATING - LOW OIL - FILLED AND CHECKED'.
**06.04.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - AIR DRYER ELECTRIC PLUG RECONNECTED AND OPERATION CHECKED OK'.
**06.04.1994** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER REPAIRS COMPLETED, COUPLER HEIGHT MEASURED TO925MM. COUPLER UNABLE TO BE LOWERED ANY FURTHER.'.
**06.04.1994** Service defect: 'TS - OTHER BODY REPAIRS - 'A'END COW CATCHER REPAIRS COMPLETED AND REPAINTED.'.
**28.04.1994** Service defect: 'UN - GENERAL - TOILET CLEANED AND PIPE REPAIRED.'.
**28.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR CHECKED OK.'.
**18.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR ADJUSTED.'.
**18.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - PLASTIC LINES TO SANDING MAGNET VALVE REPAIRED.'.
**18.06.1994** Service defect: 'UN - VIGILANCE - VIG/CONTROL AUDIBLE WARNING REPAIRED.'.
**26.07.1994** Service defect: 'UN - ENGINE ROOM - BROKEN ENGINE MOUNT BOLT REPLACED'.
**26.07.1994** Service defect: 'UN - GENERAL - TOOL BOX MOD COMPLETED'.
**26.07.1994** Service defect: 'UN - OTHER BODY REPAIRS - STEP MOD COMPLETED'.
**26.07.1994** Service defect: 'UN - BROKEN ENGINE MOUNT BOLT REPLACED'.
**26.07.1994** Service defect: 'UN - TOOL BOX MOD COMPLETED (LOCKS)'.
**26.07.1994** Service defect: 'UN - STEP MOD COMPLETED'.
**25.08.1994** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE PROBLEMS REPAIRED OK'.
**21.09.1994** Service defect: 'SW - COMPRESSOR MODS COMPLETED'.

**ALF 21**

Details: locomotive 'ALF 21 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 129.5tonne

**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 22.02.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 11.04.1997 | | |
| SW Service Mileage: | 499549 KM | SW Service Date: | 17.12.1996 |
| A Service Mileage: | 60310 KM | A Service Date: | 01.06.1994 |
| US Service Mileage: | 554920 KM | A Service Date: | 11.04.1997 |

**23.02.1994** Service defect: 'UN - BOGIE - NO 4 GEARCASE CAP REPLACED, A/C LEAKING CRATER.'.
**23.02.1994** Service defect: 'UN - DYNAMIC BRAKE - REPAIRED SELECTOR HANDLE IN DYN/BRAKE,A/C STIFF IN OPERATION'.
**23.02.1994** Service defect: 'UN - ENGINE - ENGINE HUNTING - RACKS CHECKED OUT OK.'.
**23.02.1994** Service defect: 'UN - GENERAL - BAD RATTLE UNDER DASH UNDER LOAD - CHECKED OUT OK.'.
**23.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK IN BRAKE VALVE WHEN AUTO APPLICATION MADE - PROBLEMRECTIFIED. AIR LEAK LHS NEAR HEATER WHEN BRAKES RELEASED -'.
**28.02.1994** Service defect: 'UN - FUEL SYSTEM - OBS/SIDE FUEL CUT OFF REPAIRED.'.
**28.02.1994** Service defect: 'UN - GENERAL - CAB DOOR FRAMES EASED AND DOOR SHUTS OK. D/SIDE WINDOW REPAIRED, A/C LEAKING.'.
**28.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DATA LOGGER DOWN LOADED, A/C INCIDENT IN A/SPRINGS.'.
**28.02.1994** Service defect: 'UN - D/SIDE FUEL CUT OFF TO REPAIR, PARTS ORDERED.28/2'.
**01.03.1994** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER REPAIRED (SIGMA).'.
**19.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CONTROLLER NOT HOLDING IN ON NOTCH 4 - REPLACED WITH SPARE CONTROLLER EX MKCA STOCK'.
**28.03.1994** Service defect: 'TS - GENERAL - REPAIRS COMPLETED (M & K).'.
**09.04.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAKS REPAIRED.'.
**09.04.1994** Service defect: 'UN - OTHER BODY REPAIRS - COWCATCHER STRAIGHTENED AND SECURED. COUPLER HANDLES STRAIGHTENED AND RE BOLTED.'.
**27.04.1994** Service defect: 'TS - AIR CONDITIONING - LOAD TESTED AIR COND ON AND ALL FANS IN 68.7A AND 123HZ.'.
**27.04.1994** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRES ON 100A GEN FIELD CIRCUIT BREAKER TIGHTENED NO'S A1A8 AND A2AB.'.
**02.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - DRIVER SIDE CAB DOOR HINGE ADJUSTED, TESTED OK.'.
**03.05.1994** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - OILED AND CRATERED.'.
**01.06.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - LOW POWER FAULT DETECTED & RECTIFIED BEFORE RELEASE'.

**ALF 22**

Details: locomotive 'ALF 22 X' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 129.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.03.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 08.04.1997 | | |
| SW Service Mileage: | 549068 KM | SW Service Date: | 14.02.1997 |
| US Service Mileage: | 580292 KM | A Service Date: | 08.04.1997 |

**10.03.1994** Service defect: 'UN - ALTERNATOR - ALTERNATOR IMBALANCE CHECK OK. 0.260VAC AT 3000HP. LOCO LOADTESTED OK.'.
**10.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - GROUND DETECTION CIRCUIT WIRING 01 AND 02 REPLACED, A/C BURNT OUT. GROUND CIRCUIT CHECK OK.'.
**15.03.1994** Service defect: 'TS - ALTERNATOR - 101 AND 102 WIRES ON ALTERNATOR BLOWN OFF AGAIN. REPAIRED. SENT ON TRIAL RUN CHECKED OUT OK.'.
**15.03.1994** Service defect: 'TS - CONTACTOR MISCELLANEOUS - S36 CONTACT TIPS CLEANED UP.'.
**15.03.1994** Service defect: 'TS - TRACTION MOTOR - NO.2 T/M CLEANED UP, A/C FLASHED OVER.'.
**04.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MODIFICATION - WATER COOLING MANIFOLD INSTALLED'.
**11.05.1994** Service defect: 'TW - BATTERY MAINTENANCE - ALL BATTERY CELLS TOPPED UP.'.
**11.05.1994** Service defect: 'TW - BOGIE - OILED AND CRATERED.'.
**03.06.1994** Service defect: 'SW - GENERAL - COMPLETION OF SERVICE AND COMPRESSOR CHECKS'.
**11.06.1994** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 2 NO. BRAKE GRIDS BURNT - REPAIRED AND TESTED (NOT ON TRACK)'.

**ALF 23**

Details: locomotive 'ALF 23 R' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 129.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 11.03.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 17.04.1997 | | |
| SW Service Mileage: | 510014 KM | SW Service Date: | 16.11.1996 |
| US Service Mileage: | 581737 KM | A Service Date: | 17.04.1997 |

**15.03.1994** Service defect: 'UN - BOGIE - PLUG REPLACED ON R/H/S REAR BRAKE CYLINDER.'.
**15.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - WC30 CONTROL BRAKE VALVE CHANGED AND TESTED OK, A/C LOCO HADNO EMERGENCY BRAKES.'.
**22.03.1994** Service defect: 'UN - AIR CONDITIONING - AIR COND. NOT WORKING. TRIPPING HP REPAIRED BY SIGMA.'.
**22.03.1994** Service defect: 'UN - FUEL SYSTEM - DRIVERS SIDE FUEL ASSEMBLY VALVE REPLACED ON FUEL FILLER. SLIGHT LEAK FROM SPIN ON FUEL FILTER REPAIRED.'.
**22.03.1994** Service defect: 'UN - SLIGHT FLATS ON NO.2 WHEEL SET.22/3/94.'.
**23.03.1994** Service defect: 'UN - GENERAL - REPAIRS COMPLETED (M & K).'.
**08.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR INSPECTED AND REPAIRED A/C NOISY,LOW OIL'.
**06.05.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - COMPUTER CARD REPLACED, A/C ENGINE DROPPING LOAD. LOCO LOAD TESTED TO 3197 H.P. (M & K).'.
**01.07.1994** Service defect: 'UN - NO FAULT FOUND - VIGILANCE TESTED OK,LOW POWER BOOKED - LOAD TESTED TO 3200HPNO FAULTS FOUND - RACKS OK.'.
**01.08.1994** Service defect: 'FA - GENERAL LOSS OF POWER - G.F.D REPLACED A/C NO POWER - REPLACED INTERLOCKS'.
**05.08.1994** Service defect: 'UN - OTHER BODY REPAIRS - BOLTS REPLACED IN COW CATCHER'.
**05.08.1994** Service defect: 'UN - COMPRESSOR MOD COMPLETED'.
**05.08.1994** Service defect: 'UN - STEP MOD COMPLETED'.
**15.09.1994** Service defect: 'UN - WHEELSLIP - W/SLIP PROBLEM IN DYNAMIC CONTACTORS , GRIDS AND CONNECTIONSCHECKED OK'.
**28.09.1994** Service defect: 'UN - GENERAL LOSS OF POWER - LOSING POWER -CONTROLLER TO BE REPLACED A/C MECH DEFECT'.
**28.09.1994** Service defect: 'UN - CONTROLLER TO BE REPLACED A/C MECH DEFECT'.

**ALF 24**

Details: locomotive 'ALF 24 D' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 129.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 21.03.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 11.04.1997 | | |
| SW Service Mileage: | 511845 KM | SW Service Date: | 11.04.1997 |
| A Service Mileage: | 45526 KM | A Service Date: | 24.06.1994 |
| B Service Mileage: | 136167 KM | B Service Date: | 20.09.1994 |
| US Service Mileage: | 500248 KM | A Service Date: | 21.01.1997 |

**22.03.1994** Service defect: 'UN - GENERAL - LOCO SENT TO PT. AUGUSTA FOR COMPRESSOR REPAIRS.'.
**22.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO.3 AND NO.4 CONTROL PIPES SWAPPED EACH END, BOTH SIDES.'.
**22.03.1994** Service defect: 'UN - STARTER MOTOR - BOTTOM STARTER MOTOR TO REPLACE. NIL STOCK MPC.'.
**06.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION REPAIRS CARRIED OUT'.
**22.06.1994** Service defect: 'UN - GENERAL - AIR BRAKE PIPE BARREL UNION LOOSE UNDER PILOT - REPAIRED OK.'.
**24.06.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - DATA LOGGER FOUND TO BE U/S - MKCA TO REPAIR'.
**25.08.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MODIFICATION COMPLETED OK'.
**20.09.1994** Service defect: 'B - ENGINE - NO 2 POWER ASSEMBLY REPLACED'.
**20.09.1994** Service defect: 'B - VIGILANCE - VIGILANCE REPAIRED'.

**ALF 25**

Details: locomotive 'ALF 25 M' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 129.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 06.04.1994

**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAA

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 22.04.1997 | | |
| SW Service Mileage: | 546709 KM | SW Service Date: | 22.04.1997 |
| A Service Mileage: | 63348 KM | A Service Date: | 15.07.1994 |
| US Service Mileage: | 542685 KM | A Service Date: | 10.03.1997 |

**14.04.1994** Service defect: 'UN - DYNAMIC BRAKE - NO.2 DB SHORTING CONTACTOR MELTED,CABLES DAMAGED - NEW CABLERUN INSTALLED,CONTACTOR REPLACED - TESTED IN SHOP OK.'.
**26.04.1994** Service defect: 'UN - FUEL SYSTEM - FUEL FILLER TO REPAIR - FLOAT VALVE CHANGED, A/C FAULTY.'.
**13.05.1994** Service defect: 'SW - GENERAL - COMPRESSOR HEAD COOLING MODIFIED'.
**17.05.1994** Service defect: 'TS - TRACTION MOTOR - NO'S 1 AND 4 T/M'S CHECKED/CLEANED.'.
**17.05.1994** Service defect: 'TS - TRACTION MOTOR BRUSHES - 1 BRUSH HOLDER CHANGED ON NO 1 T/MOTOR. ALL BRUSHES CHANGED ON NO'S 1 AND 4 T/MOTORS.'.
**10.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR ADJUSTED - 800 - 860 KPA. P.C.S. ADJUSTED.'.
**10.06.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE PIPE LEAK REPAIRED. BRAKE TEST COMPLETEDORIFICE TEST COMPLETED.'.
**23.06.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST - REPAIRS COMPLETED AS PER B/TEST SHEET. M & K APPROVED.'.
**15.07.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPLETED COMPRESSOR DRAIN MOD'.
**15.07.1994** Service defect: 'A - OTHER BODY REPAIRS - STEP MOD COMPLETED'.

## 2.6 Locomotive classification starting with 'AN'

**AN 1**

Details: locomotive 'AN 1 P' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 21.02.1997 | | |
| SW Service Mileage: | 1132331 KM | SW Service Date: | 06.02.1997 |
| A Service Mileage: | 901413 KM | A Service Date: | 26.03.1996 |
| B Service Mileage: | 756382 KM | B Service Date: | 06.10.1995 |
| C Service Mileage: | 595241 KM | C Service Date: | 03.05.1995 |
| D Service Mileage: | 367183 KM | D Service Date: | 02.06.1994 |
| E Service Mileage: | 1002518 KM | A Service Date: | 02.07.1996 |
| WT Service Mileage: | 302971 KM | WT Service Date: | 23.02.1994 |
| US Service Mileage: | 1143174 KM | A Service Date: | 21.02.1997 |

**26.11.1992** Service defect: 'SW - GENERAL - TRIP MONTHLY COMPLETED.'.
**22.12.1992** Service defect: 'UN - GENERAL - DRIVERS HEATER C/B REPLACED.'.
**22.12.1992** Service defect: 'UN - OTGEN'.
**21.01.1993** Service defect: 'A - ENGINE WATER LEAK - WATER LEAK FROM AUTO FILLER PIPE REPAIRED.'.
**21.01.1993** Service defect: 'A - GENERAL - FRIDGE OIL SEPERATOR REPLACED.FLANGE LUBRICATOR REGULATOR SEAL REPLACED.TOILET SEAT REPAIRED.R1 SANDER NOZEL REPLACED.'.
**21.01.1993** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVN.ADJUSTED UP.'.
**28.01.1993** Service defect: 'UN - BOGIE - BOGIES ROTATED.'.
**28.01.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMPUTER RIBBON REPAIRED AND REPLACED.'.
**28.01.1993** Service defect: 'UN - GENERAL - *** REPAIRS AND MODIFICATIONS CARRIED OUT BY CLYDES.******'.
**11.02.1993** Service defect: 'UN - GENERAL - CLYDE SERVICE PERSONNEL COMPLETED MODS TO TOILET DRAIN & REPLACED COMPUTER RIBBON.'.
**12.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LOOSE JOINT IN PIPE WORK BEHIND BRAKE RACK ON FLOW METER PIPE WORK WHICH WAS CAUSEING FLOW METER NOT TO WORK'.
**14.04.1993** Service defect: 'B - AUXILLARY MACHINES - AUX GEN COVER TIGHTENED,A/C LOOSE. AUX GEN WELDED,A/C CRACKED.'.
**14.04.1993** Service defect: 'B - CONTACTOR EP VALVES - MAGNET VALVE (SANDER) REPLACED ON REAR BOGIE.'.
**14.04.1993** Service defect: 'B - ENGINE - ENGINE 'Y' PIECE GASKET REPLACED,A/C BOLTS LOOSE ON 'Y'PIECE'.
**14.04.1993** Service defect: 'B - LUBRICATING SYSTEM - OIL STRAINER BOX LID BOLTS REPLACED,A/C MISSING,FOUND IN STRAINER BOX.'.
**14.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - B/CYL BRAKE PRESSURE ADJUSTED.'.
**14.04.1993** Service defect: 'B - RADIATOR/PRESSURISING FAN - RAD FAN CONTACTOR CONNECTION LUGS OVERSIZE - ALL REPLACED.'.
**07.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO INDEPENDENT WHEN APPLYING AUTO BRAKE. IN-LINE FILTER WASREMOVED AND FOUND OK. WHEN REPLACED AUTO WORKED OK.'.
**11.05.1993** Service defect: 'UN - BROKEN PIPE - BRAKE CYLINDER PRESSURE PIPE REPAIRED BELOW STARTER MOTORS.'.

**31.05.1993** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REPAIRS COMPLETED.'.
**01.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - DRIVERS SIDE 'A'END UNCOUPLING ROD STRAIGHTENED.'.
**01.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - NO 1 SANDER BRACKET DRIVERS SIDE STRAIGHTENED.'.
**01.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END DRIVERS SIDE MAIN RESERVOIR PIPE REPLACED,A/C BROKEN.MAIN RES,CONTROL & INDEPENDENT DUMMY COUPLINGS REPLACED,A/C'.
**07.07.1993** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - WIRE REPAIRED DRIVERS SIDE ENGINE ROOM LIGHTS A/C NOT WORKING. WIRE RESOLDERED ON RESISTOR IN GAUGE LIGHT CIRCUIT.'.
**07.07.1993** Service defect: 'A - ELECTRICAL MISC. MODULES - DATA MEMORY MODULE REPLACED A/C OTHER ONE USED FOR TESTING.'.
**07.07.1993** Service defect: 'A - ENGINE WATER LEAK - GASKET FROM ENGINE BLOCK TO RADIATORS REPLACED .'.
**07.07.1993** Service defect: 'A - FUEL SYSTEM - FUEL SUCTION STRAINER REPLACED.'.
**07.07.1993** Service defect: 'A - INSULATION WORN - RUBBER INSERTED UNDER CABLES NEAR MAIN ALTERNATOR A/C WERE RUBBING ON SQUARE DRAIN FITTING ON FLOOR.'.
**07.07.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES OK.'.
**07.07.1993** Service defect: 'A - VIGILANCE - DB MAGNET VALVE REPLACED A/C VIGILANCE FAULT.'.
**12.08.1993** Service defect: 'TS - ENGINE - NO 14 CYLINDER EXHAUST PORT WELDED UP, A/C CRACKED BLOCK.'.
**12.08.1993** Service defect: 'TS - GENERAL - TOILET REPAIRED.'.
**12.08.1993** Service defect: 'TS - OTHER BODY REPAIRS - FRONT WINDOW RESEALED.'.
**13.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - BRASS PROTECTION ROD RE-FITTED TO SIGHT GLASS. ENGINE PROTECTION DEVICE CHANGED. TESTED OK, A/C OIL IN WATER SIGHT GLASS'.
**13.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - IND BRAKE LEAKING ON - STEP UP VALVE CHANGED, TESTED OK IN DEPOT.'.
**01.10.1993** Service defect: 'C - BOGIE - BOGIES ROTATED.'.
**01.10.1993** Service defect: 'C - COOLING SYSTEM - COOLANT CHANGED.'.
**01.10.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - DATA LOGGER MEMORY MODULE TAKEN FOR AN5. MEMORY MODULE EX AN2 FITTED.'.
**01.10.1993** Service defect: 'C - ENGINE - 'Y' PIECE GASKET REPLACED. CRACKED BLOCK NO.14 GOUGED OUT AND WELDED.'.
**01.10.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - COMPLETE BRUSH CHANGE A/C ALL AT CONDEMNING LIMIT.'.
**13.10.1993** Service defect: 'SW - BOGIE - BOGIE SAFETY CHAIN DONE.'.
**13.10.1993** Service defect: 'SW - CONTACTOR MISCELLANEOUS - EXTENDED RANGE CONTACTOR MODS.'.
**13.10.1993** Service defect: 'SW - ENGINE - ENGINE AIR FILTERS DONE.'.
**13.10.1993** Service defect: 'SW - GENERAL - CONDENSER STRENGTHENING DONE.'.
**13.10.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - COUPLER MECHANISM MODS COMPLETED.'.
**13.10.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE MODS DONE.'.
**13.10.1993** Service defect: 'SW - OTHER BODY REPAIRS - WIEGHT DISTRIBUTION MODS COMPLETED. ENGINE VIBRATIONS. EQUIPMENT RACK.'.
**16.12.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - T1 TRANSFORMER REPLACED A/C DAMAGE TO LAMINATION.'.
**17.12.1993** Service defect: 'UN - BOGIE - LOCO HAD HOT WHEELS. IT WAS FOUND BRAKES WERE NOT ADJUSTED CORRECTLY.'.
**20.12.1993** Service defect: 'UN - GENERAL - SPEEDO ADJUSTED FOR WHEEL WEAR.'.
**15.02.1994** Service defect: 'TS - ALTERNATOR - MAIN ALTERNATOR BEARING REMOVED, CLEANED AND RE-PACKED WITH GREASE. FAULTY SLIP RINGS REPLACED AND BRUSHES BEDDED IN.'.
**23.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER REPLACED, A/C FAULTY.'.
**10.03.1994** Service defect: 'A - GENERAL - DRIVERS SIDE, SIDE BLIND REPAIRED.'.
**10.03.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 3 DUMMY COUPLINGS CHANGED. 3 BRAKE HOSES CHANGED. TRIPLE VALVE CHANGED.'.
**10.03.1994** Service defect: 'A - LOAD REGULATOR TO MONITOR, A/C COMPUTER SHOWS'.
**10.03.1994** Service defect: 'A - WINDING OPEN.10/3.'.
**21.03.1994** Service defect: 'UN - GENERAL - SPEEDO ERATIC. DATA LOGGER ADJUSTED FOR NEW WHEEL SIZE, A/CEX WTM.'.
**18.04.1994** Service defect: 'TS - FUEL SYSTEM - LOCO LOAD TESTED OK, BUT FINE AIR BUBBLE STILL PRESENT IN SIGHT GLASS. ALL FUEL STRAINER/ELEMENT O-RINGS CHANGED. ALL'.
**18.04.1994** Service defect: 'TS - D/SIDE FLANGE REGULATOR 'A'END U/S. 18/4.'.
**02.06.1994** Service defect: 'SW - BOGIE - 1 AND 5 WHEELSETS SWAPPED, RECONNECTED. SNUBBER BOLTS REPAIRED.'.
**06.06.1994** Service defect: 'TS - NO FAULT FOUND - LOCO OK ON TRIAL RUN, NO FAULT FOUND.'.
**21.06.1994** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - REPAIRED GOVERNOR - CLEANED OUT SLUDGE FROM LOAD REGULATOR WIRING AND LOAD TESTED OK, 3830HP.'.
**01.07.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HOSE REPAIRS COMPLETED.'.

**AN 2**

Details: locomotive 'AN 2 B' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 30.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 10.02.1997 | | |
| SW Service Mileage: | 1083111 KM | SW Service Date: | 10.10.1996 |
| A Service Mileage: | 1121130 KM | A Service Date: | 16.12.1996 |
| B Service Mileage: | 1060007 KM | B Service Date: | 11.09.1996 |
| C Service Mileage: | 896096 KM | C Service Date: | 16.02.1996 |
| D Service Mileage: | 532636 KM | D Service Date: | 09.12.1994 |
| E Service Mileage: | 1129026 KM | A Service Date: | 23.12.1996 |
| WT Service Mileage: | 188257 KM | WT Service Date: | 03.09.1993 |
| US Service Mileage: | 1161700 KM | A Service Date: | 10.02.1997 |

**11.12.1992** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - ELECT FIRST MONTHLY SERVICE COMPLETED.'.
**11.12.1992** Service defect: 'SW - MECHANICAL EQUIPMENT - MECH FIRST MONTHLY SERVICE COMPLETED.'.
**22.12.1992** Service defect: 'UN - GENERAL - WIPER FREED TESTED OK.'.
**15.02.1993** Service defect: 'A - BOGIE - BOGIE ROTATION COMPLETED. R/FRONT FLANGE LUBE REPLACED.'.
**29.04.1993** Service defect: 'B - CAM SHAFT - L.H REAR CAMSHAFT DOWELS REPLACED BETWEEN STUB SHAFT & SEGMENT. SMALL DOWEL + LARGER DOWEL REPLACED. R.H.S ROCKER'.
**29.04.1993** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - EP62,EP20,EP90 & EP33 AT TB70 C93 & D93 RELUGGED & BOLTED TOGETHER, A/C TERMINAL MELTED.'.
**29.04.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRE BN3 FROM R20B TOP TO R20C TOP REPLACED,A/C BURNT.'.
**29.04.1993** Service defect: 'B - RADIATOR/PRESSURISING FAN - RAD FAN BOLTS RENEWED.'.
**29.04.1993** Service defect: 'B - FLANGE LUBE REGULATING VALVE FRONT TO REPLACE,A/C'.
**29.04.1993** Service defect: 'B - U/S.29/4.'.
**11.05.1993** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - LUG ON FCF 3B CHANGED.'.
**11.05.1993** Service defect: 'SW - OTHER BODY REPAIRS - DRIVERS WINDSCREEN REPLACED.'.
**31.05.1993** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - CHECK VALVE ON DYNAMIC BRAKE FOUND U/S. VALVE REPLACED. AIR BRAKE PROBLEM RECTIFIED.'.
**30.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. PIPE & T.P. PIPE REPAIRED ON 'A'END.'.
**16.07.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - ETPI REPLACED,A/C FAULTY.'.
**15.10.1993** Service defect: 'C - GENERAL - FOLLOWING MODIFICATIONS COMPLETED - WEIGHT REDISTRIBUTION - ENGINE VIBRATIONS (EQUIP RACK)- BOGIE SAFETY CHAIN - INDEP'.
**15.10.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED, A/C CONDEMNING LIMIT.'.
**05.01.1994** Service defect: 'A - AIR CONDITIONING - AIR-COND. UNIT CHANGED OUT BY SIGMA, A/C UNIT LEAKING OIL. SHAFT SEAL LEAK AS WELL AS OTHER LEAKS.'.
**05.01.1994** Service defect: 'A - BOGIE - FLANGE LUBE AIR LEAK REPAIRED.'.
**05.01.1994** Service defect: 'A - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR WINDING SHOWED AS OPEN ON SCREEN. LOAD REG. APPEARRED TO BE WORKING OK.'.
**05.01.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - MODS COMPLETED TO RESISTOR IN PANEL.'.
**11.01.1994** Service defect: 'UN - AIR CONDITIONING - AIR-COND. UNIT CHANGED OUT BY SIGMA, A/C BURNT OUT. OLD SERIAL NO. 2163-6 N-4. NEW UNIT. 2163-4 M-35.'.
**11.01.1994** Service defect: 'UN - BOGIE - FLANGE LUBE FILTER BOWL REPLACED, EX AN4.'.
**11.02.1994** Service defect: 'UN - GENERAL - TOILET JAMMED - RELEASED OK'.
**14.03.1994** Service defect: 'UN - EXHAUST - EXPANSION JOINT, TURBO TO SCREEN REPLACED, A/C CRACKED. GASKETS ALSO REPLACED.'.
**14.03.1994** Service defect: 'UN - FUEL SYSTEM - NON RETURN VALVE OBS/SIDE FILLER NOZZLE REPLACED, A/C LEAKING.'.
**14.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRIPLE VALVE REPLACED EX DL45, A/C BLOWING.'.
**14.03.1994** Service defect: 'UN - OTHER BODY REPAIRS - FRONT UN-COUPLING ARMS REPAIRED, A/C BENT.'.
**29.03.1994** Service defect: 'B - BOGIE - L1 FLANGE LUBE VALVE REPLACED, A/C AIR LEAK.'.
**29.03.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - AUX SHUNT CABLE ON SGC CONTACTOR REPLACED, A/C BURNT.'.
**07.06.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BRAKE CYL GAUGE REPAIRED.'.
**07.06.1994** Service defect: 'UN - ENGINE - LOCO LOAD TESTED TO 3841 H.P. AND ENGINE INSPECTED OK.'.
**07.06.1994** Service defect: 'UN - EXHAUST - NO'S 5, 6 & 14 EXH CYLINDER PORTS WELDED, A/C CRACKED.'.
**17.06.1994** Service defect: 'TS - ENGINE GOVERNOR - GOVERNOR CHANGED, A/C HUNTING. GOV SERIAL NO IN- 2632349. GOV S/NO OUT- 2570595. LOAD TEST - 3840 HP. 100
**22.06.1994** Service defect: 'A - COOLING SYSTEM - WATER CHANGED.'.

**AN 3**

Details: locomotive 'AN 3 K' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard

**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 07.01.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 28.04.1997 | | |
| SW Service Mileage: | 1059389 KM | SW Service Date: | 09.01.1997 |
| A Service Mileage: | 1034739 KM | A Service Date: | 06.12.1996 |
| B Service Mileage: | 954492 KM | B Service Date: | 30.08.1996 |
| C Service Mileage: | 768529 KM | C Service Date: | 01.02.1996 |
| D Service Mileage: | 518794 KM | D Service Date: | 22.02.1995 |
| E Service Mileage: | 1101884 KM | A Service Date: | 11.03.1997 |
| WT Service Mileage: | 990937 KM | WT Service Date: | 10.10.1996 |
| US Service Mileage: | 1129279 KM | A Service Date: | 28.04.1997 |

**15.01.1993** Service defect: 'UN - TRACTION MOTOR - NO6 T/MOTOR CHANGED A/C LOW FIELD RESISTANCE.'.
**20.01.1993** Service defect: 'TS - TRACTION MOTOR - NO6 TRACTION MOTOR CHANGED AND TESTED OK.'.
**20.01.1993** Service defect: 'TS - AIR CONDITIONER TO BE MODIFIED.'.
**02.02.1993** Service defect: 'SW - GENERAL - ELECTRICAL & MECHANICAL MONTHLY CHECKS COMPLETED.'.
**15.03.1993** Service defect: 'SW - GENERAL - TOILET REPAIRS COMPLETED BY SIGMA STAFF.'.
**06.04.1993** Service defect: 'SW - ENGINE - RACKS & INJECTORS CHACKED OK.'.
**06.04.1993** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - PLUG IN TURBO REPLACED,A/C LEAKING.'.
**06.04.1993** Service defect: 'SW - LUBRICATING SYSTEM - HUNTING PROBLEM RECTIFIED BY DROPPING GOV OIL TO CORRECT LEVEL.'.
**07.04.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 6 LHS AXLE BOX POSITION CORRECTED.'.
**04.05.1993** Service defect: 'UN - GENERAL - COMPLETE TOILET SYSTEM REPLACED,CHECKED & ADJUSTED OK.'.
**21.06.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - FF6 CABLE CHANGED,A/C BURNT.'.
**29.06.1993** Service defect: 'A - BOGIE - BOGIES ROTATED,A/C WHEEL WEAR. LOCO MOVEMENT TESTED IN POWER& DYNAMIC.'.
**29.06.1993** Service defect: 'A - GENERAL - SEAT REPAIRS COMPLETED.'.
**02.07.1993** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - THROTTLE INDICATOR LIGHT REPAIRED. WIRE OFF R74.'.
**18.08.1993** Service defect: 'UN - GENERAL UNABLE TO LIFT LOAD - LOCO NOT LOADING UP AFTER TRANSITION AT 60KPH. **PROBLEM DUE TO NO SAND IN L1 OR R1 SANDBOXES.'.
**16.09.1993** Service defect: 'B - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR CONDUIT REPAIRED, A/C BENT.'.
**16.09.1993** Service defect: 'B - OTHER BODY REPAIRS - 'A'END COLLISION REPAIRS COMPLETED.'.
**16.09.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL BRUSHES IN 2,3,4,5 & 6 T/MOTORS CHANGED, A/C SHORT. BRUSHES IN NO 1 T/M OK.'.
**29.09.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER REPLACED.'.
**29.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR PIPES REPAIRED 'A'END. BRACKETS STRAIGHTENED HOSES REPLACED 'A'END.'.
**25.10.1993** Service defect: 'UN - STEP UP VALVE TO CHANGE.25/10.'.
**29.10.1993** Service defect: 'SW - ENGINE WATER LEAK - WATER LEAK AT NO 14 EXHAUST - CLEANED UP & WELDED. EXH MAN INSTALLED, LOCO FILLED WITH COOLANT. LOCO LOAD TESTED OK.'.
**18.11.1993** Service defect: 'SW - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR REPLACED.'.
**18.11.1993** Service defect: 'SW - GENERAL - OBS ARM REST SECURED. RERAILING EQUIPMENT SECURED.'.
**18.11.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. HOSE 'A'END REPLACED.'.
**18.11.1993** Service defect: 'SW - OTHER BODY REPAIRS - 'A'END COUPLINGS REPLACED.'.
**27.11.1993** Service defect: 'UN - VIGILANCE - VIGILANCE CUT BACK IN AND TESTED OK.'.
**08.12.1993** Service defect: 'A - ENGINE - AIR DRYER CHANGE COMPLETED.'.
**08.12.1993** Service defect: 'A - GENERAL - AIR FRIDGE REPAIRED, A/C LEAKING.'.
**20.12.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED, A/C FLUCTUATING BADLY.'.
**25.12.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - DATA LOGGER MECHANISM LOOSE,CAUSING SPEEDO NOT TO WORK AT TIMES BUT CHECKS OUT OK IN DEPOT.'.
**18.02.1994** Service defect: 'UN - ENGINE - CRACK WELDED IN ENGINE BLOCK IN NO 10 EXHAUST POSITION. CRACK TESTED OK.'.
**18.02.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO TEST SCREEN CLEANED AND ENGINE LOAD TESTED OK TO 3874 H.P.'.
**18.02.1994** Service defect: 'UN - EXHAUST - EXHAUST - BROKEN STUD REMOVED AND THREAD RETAPPED. EXHAUST STACKS FITTED AND TORQUED. HATCH FITTED.'.
**02.03.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - SPEEDO CHECKED OUT OK.'.
**02.03.1994** Service defect: 'C - GENERAL - ARM REST REPAIRED.'.
**21.03.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL DIAMETER PARAMETER CORRECTED, A/C SPEEDO INACCURATE.'.
**21.03.1994** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT 91-H1-1023 CHANGED TO UNIT 88-M1-1054, A/C LOCO DROPPING LOAD. RADAR SUSPECTED CAUSE. TO TRIAL RUN.'.
**21.03.1994** Service defect: 'UN - GENERAL - TRIAL RUN TO BOLIVAR SUCCESSFUL.'.
**28.05.1994** Service defect: 'A - ALTERNATOR - 2 ALTERNATOR BRUSHES CHANGED, 3RD SLIP RING.'.
**28.05.1994** Service defect: 'A - BOGIE - L1 F/LUBE SOLENOID

CHANGED, A/C NO AIR. R1 GREASE NIPPLE REALIGNED. R6 GREASE REGULATED PROPERLY.'.

**28.05.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - R5 RESISTOR REPLACED.'.

**28.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR COUPLING ALIGNMENT CHECKED OK.'.

**28.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L1 SAND PIPE BRACKET STRAIGHTENED. R1 SAND HOSE REPLACED. L6 SAND PIPE STRAIGHTENED. SAND NOZZLES L1,R1,L6 & R6'.

**20.07.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - PARK BRAKE FAULT TESTED OK'.

**20.07.1994** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT TESTED OK'.

**AN 4**

Details: locomotive 'AN 4 T' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 07.04.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 21.02.1997 | | |
| SW Service Mileage: | 962617 KM | SW Service Date: | 23.01.1997 |
| A Service Mileage: | 962617 KM | A Service Date: | 21.02.1997 |
| B Service Mileage: | 680332 KM | B Service Date: | 09.02.1996 |
| C Service Mileage: | 940764 KM | C Service Date: | 22.11.1996 |
| D Service Mileage: | 540341 KM | D Service Date: | 18.08.1995 |
| WT Service Mileage: | 213005 KM | WT Service Date: | 02.03.1994 |
| US Service Mileage: | 962617 KM | A Service Date: | 07.01.1997 |

**05.05.1993** Service defect: 'UN - NO FAULT FOUND - FAULT FINDING CARRIED OUT BY CLYDE & AN STAFF,NO FAULT FOUNDLOCO RETURNED TO TRAFFIC.'.

**12.05.1993** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - GFC COILWIRE,COMP UNLOADER MAG VALVE,DBI MAGNET VALVE,HEAD LIGHT RESISTORS TIGHTENED,A/C LOOSE WIRES.'.

**12.05.1993** Service defect: 'SW - FUEL SYSTEM PUMP - FUEL PUMP COUPLING GRUB SCREW REPLACED.'.

**12.05.1993** Service defect: 'SW - VIGILANCE - PLUG FALLEN OUT OF SOLENOID IN VIG BOX,REPLACED.'.

**05.07.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - ODOMETER REPAIRED.'.

**05.07.1993** Service defect: 'A - GENERAL - TOILET REPAIRED.'.

**05.07.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO. 5 WHEEL SET CHANGED A/C SIEZED BEARING. WHEELS CUT TO HAUL HOME.'.

**05.07.1993** Service defect: 'TS - TRACTION MOTOR - NO. 5 T/M CHANGED OUT WITH WHEEL SET.'.

**06.09.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONING UNIT CHANGED, TESTED OKAY.'.

**24.09.1993** Service defect: 'B - BOGIE - L6 FLANGE LUBE NOZZLE REPAIRED A/C BROKEN SPRING.'.

**24.09.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - MANUAL POWER RHEOSTAT REPLACED.'.

**24.09.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING TO R34 RESISTOR REPAIRED.'.

**24.09.1993** Service defect: 'B - INSULATION WORN - NO.2 T/M EXTRA CLEAT FITTED A/C ONE MISSING AND CABLE HAD STARTED TO RUB.'.

**01.10.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - EXTENDED RANGE CONTACTOR BY CLYDE.'.

**01.10.1993** Service defect: 'UN - ENGINE - ENGINE AIR INTAKE FILTER MODS DONE BY CLYDE.'.

**01.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLER MECHANISM DONE BY CLYDE.'.

**01.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE DONE BY CLYDE.'.

**01.10.1993** Service defect: 'UN - OTHER BODY REPAIRS - WEIGHT DISTRIBUTION. ENGINE VIBRATIONS EQPT RACK.CLYDE MODIFICATION.'.

**18.10.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - POWER CONTACTOR P4 REPLACED, A/C U/S.'.

**17.11.1993** Service defect: 'SW - GENERAL - TOILET UNBLOCKED. LOCO ROOF AND BODY CLEANED.'.

**08.12.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED, DIRECTION TESTED OK.'.

**08.12.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO TRANSMITTER REPLACED, A/C FAULTY.'.

**13.12.1993** Service defect: 'A - ALTERNATOR - SLIP RINGS CHECKED A/C INSIDE AR11 SLIP-RING SHOWS SEVERE WEAR. L. PEARCE GAVE PERMISSION TO SEND TO TRAFFIC.'.

**13.12.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER PLATE REPLACED A/C MISSING.'.

**13.12.1993** Service defect: 'A - SPEEDO TRANSMITTER MISSING, TO TRAIL ONLY.13/12/93'.

**13.12.1993** Service defect: 'A - .'.

**11.01.1994** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - FAULT INDICATING RESISTOR BLOWN. WIRES TAPED UP AND SENT TO TRAFFIC AS TRAILING UNIT UNTIL PARTS AVAILABLE.'.

**11.02.1994** Service defect: 'TS - ALTERNATOR - SLIP RINGS REMOVED AND NO.4 REPLACED, A/C SEVERE WEAR. SLIP RING BRUSHES REPLACED AND BEDDED IN.'.

**11.02.1994** Service defect: 'UN - GENERAL - TRIGGER MECHANISM A END U/S - SENT TO MPC'.

**17.02.1994** Service defect: 'SW - AIR CONDITIONING - LOCO SENT INTO TRAFFIC, RESISTOR REQ'D FOR A/CON DID NOT TURN UP FROM SYDNEY. INFORMATION ALREADY ON OUTSTANDING WORK'.

**09.03.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - SPEEDO REPLACED, A/C MISSING.'.

**09.03.1994** Service defect: 'C - ENGINE - AIR LEAK ON AIR DRYER REPAIRED (AIR DRYER REPLACED).'.
**09.03.1994** Service defect: 'C - GENERAL - 'A'END OBS/SIDE TRIMOUNT WIPER REPLACED.'.
**16.03.1994** Service defect: 'SW - AIR CONDITIONING - AIR-COND. UNIT CHANGED OVER. WORK DONE BY SIGMA.'.
**01.06.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES SAFETY VALVE, DRIVERS SIDE REPAIRED, A/C BLOWING OFF.'.

**AN 5**

Details: locomotive 'AN 5 F' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 10.05.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 18.02.1997 | | |
| SW Service Mileage: | 1066846 KM | SW Service Date: | 18.02.1997 |
| A Service Mileage: | 891904 KM | A Service Date: | 07.06.1996 |
| B Service Mileage: | 998482 KM | B Service Date: | 28.09.1996 |
| C Service Mileage: | 810183 KM | C Service Date: | 01.03.1996 |
| D Service Mileage: | 527661 KM | D Service Date: | 25.03.1995 |
| WT Service Mileage: | 197104 KM | WT Service Date: | 15.02.1994 |
| US Service Mileage: | 1052996 KM | A Service Date: | 14.01.1997 |

**04.08.1993** Service defect: 'A - BOGIE - BOGIE ROTATION COMPLETED.'.
**04.08.1993** Service defect: 'A - EARTH FAULT MISCELLANEOUS - EARTH ON NO 14 PIN ON JUMPER CABLE, JUMPER REPLACED. LOCO TESTED OK.'.
**16.10.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOSING POWER - OVERCURRENT ON PSH - NO SPARE MODULES-TO MPC.'.
**02.11.1993** Service defect: 'B - AIR CONDITIONING - AIR CONDITIONER REPAIRED BY SIGMA.'.
**02.11.1993** Service defect: 'SW - GENERAL - MODIFICATIONS COMPLETED.'.
**02.11.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - SOUND WARNING - COMPLETE HORN & MANIFOLD CHANGE COMPLETED, A/C CRACKED MANIFOLD.'.
**12.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VIGILANCE BREAKER HAD TRIPPED:VIGILANCE BUTTONS ATTENDED TO,CHECKED SYSTEM OK.'.
**21.12.1993** Service defect: 'SW - CONTACTOR MISCELLANEOUS - SGC CONTACTOR PINS LOOSE. REPAIRED.'.
**21.12.1993** Service defect: 'SW - OTHER BODY REPAIRS - OBS. WINDSCREEN REPLACED, A/C CRACKED.'.
**24.01.1994** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - DIODE IN 'FSU'REAR BOGIE REPLACED, A/C SHORTED. DIODE EX AN9.'.
**15.02.1994** Service defect: 'TS - GENERAL ACCIDENT - DERARAILMENT REPAIRS COMPLETED. NO.4 T/M BOTTOM COVER REPLA-CED. REPLACED REAR STEP. SEVERAL SANDING HOSES REPLACED.'.
**18.02.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - CLEANED LOAD REGULATOR, A/C LOW POWER.'.
**19.03.1994** Service defect: 'TW - BOGIE - ALL 'B'END BRAKE BLOCKS CHANGED, A/C EXCESSIVE HEAT.'.
**19.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - RELAY VALVE CHANGED, A/C 'B'BOGIE BRAKES WOULD NOT RELEASE.'.
**19.04.1994** Service defect: 'C - ENGINE - REPAIRED WATER 'Y' PIECE GOVERNOR END OF ENGINE, A/C LEAKINGFROM GASKET TO BLOCK. AIR DRYER CHANGED.'.
**19.04.1994** Service defect: 'C - GENERAL - DRIVERS SIDE ARM REST REPAIRED.'.
**19.04.1994** Service defect: 'C - 'A'END DRIVERS SIDE FLANGE AIR REGULATOR TO BE'.
**19.04.1994** Service defect: 'C - REPLACED.20/4.'.
**09.05.1994** Service defect: 'UN - BOGIE - FLANGE LUBE FILTER CLEANED OUT, A/C BLOCKED.'.
**09.05.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON NO 6 WHEELS - LOCO SENT TO WTM.'.
**09.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - OBS/SIDE STEP BOLTS REPLACED.'.
**16.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - HOSE AND COW CATCHER REPAIRS COMPLETED.'.
**27.05.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - FAULT LIGHT RESISTOR CHANGED.'.
**27.05.1994** Service defect: 'TS - ENGINE - LOCO LOAD TESTED TO 3850 H.P. 100
**02.06.1994** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.
**02.06.1994** Service defect: 'SW - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT REMOUNTED, A/C SEVERAL DEGREES OUT OF DEFLECTION ANGLE.'.
**02.06.1994** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BP/MR PIPES 'A'END REPLACEMENT COMPLETED.'.
**05.07.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PILOT CONTACT ON SGC NOT OPERATING,CLEANED & TESTED OK.'.

**AN 6**

Details: locomotive 'AN 6 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 30.06.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 19.03.1997 | | |
| SW Service Mileage: | 921027 KM | SW Service Date: | 19.03.1997 |
| A Service Mileage: | 695993 KM | A Service Date: | 18.04.1996 |
| B Service Mileage: | 622769 KM | B Service Date: | 08.12.1995 |
| C Service Mileage: | 781791 KM | C Service Date: | 24.08.1996 |
| D Service Mileage: | 472137 KM | D Service Date: | 15.06.1995 |
| WT Service Mileage: | 137036 KM | WT Service Date: | 08.02.1994 |
| US Service Mileage: | 899304 KM | A Service Date: | 29.01.1997 |

**13.08.1993** Service defect: ‘SW - ENGINE - ALL FILTERS CHANGED.’.
**13.08.1993** Service defect: ‘SW - GENERAL - AN6 FIRST MONTHLY SERVICE COMPLETED.’.
**13.08.1993** Service defect: ‘UN - GENERAL - MAIN ALT. REMOVED. PADS MACHINED. SUPPORT FRAME MACHINED. ALT. REPLACED/ALIGED. VIB. TESTING BY VIPAC ON 13/8/93.’.
**24.09.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT BRAKE VALVE - A1 VALVE CHECKED OK : 30CW VALVE NOT SEATING - 30CW VALVE CHANGED,VIG RESET,LOCO TESTED OK.’.
**30.09.1993** Service defect: ‘UN - AIR CONDITIONING - AIR CONDITIONER REPAIRED BY SIGMA.’.
**30.09.1993** Service defect: ‘UN - GENERAL - FRIDGE FILTER CHANGED, THERMOSTAT ADJUSTED.’.
**13.10.1993** Service defect: ‘TW - ELECTRICAL MISC. GROUND RELAY - NO.1 T/M HAD G/RELAY’S. CHECKED OK ON VISUAL INSPECTION.’.
**25.10.1993** Service defect: ‘A - MECHANICAL EQUIPMENT SANDING GEAR - L1 SAND HOSE REPLACED, A/C SPLIT.’.
**25.10.1993** Service defect: ‘A - MECHANICAL MAINTENANCE - AIR BRAKE - ‘A‘END D/SIDE CONTROL HOSE (NO4) CHANGED.’.
**25.10.1993** Service defect: ‘A - OTHER BODY REPAIRS - WINDOW WASHER (‘T‘PIECE) REPAIRED.’.
**25.10.1993** Service defect: ‘A - TRACTION MOTOR - T/M BLOWER MOTOR FAN RIVETS CHECKED FOR LOOSENESS, A/C ONE RIVET BROKEN & FOUND IN NO 6 T/M. RIVETS CHECKED OK.’.
**11.11.1993** Service defect: ‘SW - BOGIE - BOGIE ROTATION COMPLETED. DIRECTION TESTED OK. D/BRAKE TESTED OK.’.
**11.11.1993** Service defect: ‘SW - GENERAL - MODS COMPLETED - KETTLE REPLACED - DUMMY COUPLING REPLACED ‘A‘END.’.
**10.12.1993** Service defect: ‘TS - AIR CONDITIONING - SIGMA CHECKED AIR-CON. UNIT AND FOUND OK.’.
**10.12.1993** Service defect: ‘TS - ELECTRICAL MISCELLANEOUS - R5 RESISTOR WIRE FOUND BROKEN. RESOLDERED AND CHECKED OK.’.
**10.12.1993** Service defect: ‘TS - ENGINE - VALVE ROCKER ARM ON NO.16 CYLIDER CHANGED A/C ADJUSTER STOCKGASKET ON WATER ‘Y’ PIECE CHANGED A/C LEAKING.’.
**10.12.1993** Service defect: ‘TS - ENGINE CYLINDER HEADS - NO.15 HEAD CHANGED.’.
**10.12.1993** Service defect: ‘TS - OTHER BODY REPAIRS - WINDSCREEN LEAKS CHECKED OK.’.
**20.12.1993** Service defect: ‘UN - BOGIE - FLANGE LUBE TESTED OK.’.
**20.12.1993** Service defect: ‘UN - GENERAL - TOILET REPAIRED. PRESSURE RELEASE VALVE CHANGED. FRIDGE REPAIRED. HOT AIR RELEASE VALVE CHANGED.’.
**14.01.1994** Service defect: ‘UN - BOGIE - ‘A‘END TRI-MOUNTS AND WEAR PLATE REPLACED.’.
**14.01.1994** Service defect: ‘UN - ENGINE CYLINDER HEADS - NO.7 HEAD CHANGED, A/C VALVES.’.
**14.01.1994** Service defect: ‘UN - VALVE BRIDGE/LASH ADJUSTER - ALL VALVE BRIDGES CHANGED. TAPPETS RESET.’.
**24.01.1994** Service defect: ‘B - ALTERNATOR - TWO ALTERNATOR FUSES REPLACED.’.
**24.01.1994** Service defect: ‘B - DYNAMIC BRAKE - DYNAMIC NOT WORKING. GB60 WIRE IN PLUG ON TFP PANEL FOUND PUSHED BACK INSIDE PLUG. WIRE REPAIRED AND D/BRAKE OK.’.
**24.01.1994** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - STEP WELL LIGHT FITTING REPLACED. HEATER LUGS DRIVERS SIDEREPLACED.’.
**24.01.1994** Service defect: ‘B - ENGINE - NO.15 ‘P‘PIPE CHANGED, A/C BROKEN.’.
**24.01.1994** Service defect: ‘B - GENERAL - ENGINE ROOM HOOD SHOCKER STRUT REPLACED WITH ‘AN‘TYPE, A/C WAS FITTED WITH ‘EL‘TYPE.’.
**24.01.1994** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER PRESSURE FAULT CHECKED OK IN DEPOT.’.
**24.01.1994** Service defect: ‘B - OTHER BODY REPAIRS - O/SIDE ARM REST REPLACED.’.
**24.01.1994** Service defect: ‘B - TRACTION MOTOR BRUSHES - TRACTION MOTOR BRUSHES CHANGED.’.
**24.01.1994** Service defect: ‘B - DOOR DAMPER TO ALT. COMP. TO REPLACE NIL STOCK.’.
**24.01.1994** Service defect: ‘B - L. PIERCE NOTIFIED.24/1/94.’.
**02.02.1994** Service defect: ‘UN - GENERAL - DRIVERS SIDE WIPER CHECKED OK.’.
**02.02.1994** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES PIPE AND BRACKET REPAIRED ‘A‘END. DRIVERS SIDE CONTROL HOSE REPLACED.’.
**21.02.1994** Service defect: ‘UN - GENERAL - SERVICE WATER TANK REPAIRED - TANK FILLED WITH WATER AND CHECKED OK.’.
**29.03.1994** Service defect: ‘SW - BOGIE - BOGIE ROTATION COMPLETED.’.
**29.03.1994** Service defect: ‘SW - ELECTRICAL MISC - FUSES/HOLDERS - STROBE ENABLE SWITCH INVERTED, A/C UPSIDE DOWN.’.
**29.03.1994** Service defect: ‘SW - ELECTRICAL MISCELLANEOUS - INDICATOR FAULT LIGHTS RESISTOR REPLACED.’.
**29.03.1994** Service defect: ‘SW - GENERAL - BATTERY SWITCH DOOR REPAIRED, A/C SEIZED.’.
**29.03.1994** Service defect: ‘SW - OTHER BODY REPAIRS - STEPS ‘B’ END STRAIGHTENED, A/C BENT.’.
**29.03.1994** Service defect: ‘SW - TRACTION MOTOR - T/M AA CABLE LUG ON LOCO SIDE REPAIRED, A/C HOT

JOINT.'.

**14.04.1994** Service defect: 'A - BOGIE - R1 FLANGE LUBE REPAIRED.'.

**14.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - SPARE KNUCKLE REPLACED.'.

**14.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L1,R1 AND R3 SAND NOZZLES REPLACED. L1 SAND BRACKET REPAIRED'.

**14.04.1994** Service defect: 'A - NO 2 AND 6 MAIN BEARING TO INSPECT, A/C LOSS OF'.

**14.04.1994** Service defect: 'A - OIL.14/4.'.

**24.05.1994** Service defect: 'UN - SERVICE WATER TANK REMOVED FOR REPAIRS, LOCO TO'.

**24.05.1994** Service defect: 'UN - TRAFFIC AS TRAILING UNIT.24/5.'.

**26.05.1994** Service defect: 'SW - GENERAL - SERVICE WATER TANK REPAIRED AND REPLACED.'.

**14.06.1994** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR CHECKED AND ADJUSTED OK.'.

**14.06.1994** Service defect: 'UN - ENGINE WATER LEAK - 'Y'PIECE GASKET REPLACED, A/C WATER LEAK ALSO GOVERNOR END EXHAUST REMOVED AND INSPECTED, ALL GASKETS REPLACED.'.

**14.06.1994** Service defect: 'UN - LUBRICATING SYSTEM - GOV OIL REDUCED TO HALF FULL. LOAD TESTED OK, NO HUNTING.'.

**AN 7**

Details: locomotive 'AN 7 A' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.08.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 11.04.1997 | | |
| SW Service Mileage: | 990595 KM | SW Service Date: | 15.03.1997 |
| A Service Mileage: | 1002974 KM | A Service Date: | 11.04.1997 |
| B Service Mileage: | 956531 KM | B Service Date: | 09.01.1997 |
| C Service Mileage: | 794444 KM | C Service Date: | 21.06.1996 |
| D Service Mileage: | 455487 KM | D Service Date: | 30.06.1995 |
| US Service Mileage: | 954957 KM | A Service Date: | 03.01.1997 |

**18.08.1993** Service defect: 'TS - ELECTRICAL MISC. MODULES - AUX. GENERATOR CIRCUIT BREAKER TRIPPING. VR13 MODULE CHANGED.'.

**18.08.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING REPAIRED.'.

**14.09.1993** Service defect: 'SW - FUEL SYSTEM INJECTORS - NO 5 & 2 INJECTORS SWAPPED, A/C NO 5 COMPRESSION ONLY 150PSIAFTER CHANGE NO 5 = 4OOPSI, NO 2 = 420PSI.'.

**14.09.1993** Service defect: 'SW - GENERAL - FIRST MONTHLY SERVICE COMPLETED.'.

**29.09.1993** Service defect: 'TS - TRACTION MOTOR - GR'S - T/M BLOWER SHUTTER SOLENOID JAMMED, CAUSING BLOWER SHUTTER TO STAY CLOSED. REPAIRED. LOCO OK ON TRIAL RUN.'.

**12.10.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR CHANGED AND VENT HOSE MODIFIED A/C WRONG TYPE SUPPLIED.'.

**12.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 8/10/93. NO.4 T/M VOLT FEED-BACK U/S. REPLACED FBL MODULE.A/C D/BRAKE NOT WORKING IN FULL DYNAMIC. ONLY PULLING 100AMP'.

**09.11.1993** Service defect: 'A - ELECTRICAL MISC. HEADLIGHT - FRONT O/S HEADLIGHT REPLACED, A/C BLOWN.'.

**09.11.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - RESISTOR 3 REPLACED IN ELECT CABINET ABOVE 70 BOARD, A/C OPEN CIRCUIT.'.

**09.11.1993** Service defect: 'A - ENGINE AIR FILTERS - BRAKE RACK AIR FILTERS 'A'END REPLACED WITH STRAINER.'.

**09.11.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO 3 RAD FAN MOUNTING BOLTS REPAIRED, A/C BROKEN.'.

**09.11.1993** Service defect: 'A - TRACTION MOTOR - NO 2 T/M CABLES INSULATED, A/C RUBBING ON T/M.'.

**11.11.1993** Service defect: 'TS - BOGIE - L1 TRI-MOUNT SLIP PAD REPLACED.'.

**11.11.1993** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - LOOSE INTERNAL JOINT FOUND IN ALTERNATOR, WIRE 1B FOUND LOOSE AT BUSBAR.'.

**11.11.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - LOCO G/RELAY SYSTEM CHECKED - G/RELAY REPLACED, A/C NOT RESETTING. LOCO MEGGERED OK.'.

**23.12.1993** Service defect: 'UN - BOGIE - WORN TRI-MOUNT PAD - D/SIDE TRI-MOUNT PAD SLIDE REPLACED. BOGIES ROTATED A/C 26 ON R1.'.

**23.12.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FAN BOLTS - BOLTS REPLACED ON NO1 RAD FAN A/C BROKEN.2NO'.

**24.12.1993** Service defect: 'UN - OTHER BODY REPAIRS - AIR-CON. REMOVED AND LEAKS REPAIRED.'.

**13.01.1994** Service defect: 'UN - TRACTION MOTOR - NO.1 T/M CHANGED, A/C EARTH.'.

**01.02.1994** Service defect: 'B - ALTERNATOR - ALTERNATOR BRUSHES CHANGED.'.

**01.02.1994** Service defect: 'B - BATTERY AMMETER REQ'D. ALT BRUSHES TO MONITOR.1/2.'.

**22.04.1994** Service defect: 'A - BOGIE - R/HAND NO 1 SPRING RELOCATED.'.

**22.04.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - POWER SUPPLY UNIT CHANGED, A/C LOCO WOULD NOT START.'.

**22.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - LOW PRESSURE COMP UNLOADER CHANGED, A/C RUSTED, RING SEIZED.'.

**22.04.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. OBS/SIDE PIPE REPLACED, A/C BROKEN. 2 B.PIPE DUMMY COUPLINGS REPLACED,

A/C MISSING.'.

**AN 8**

Details: locomotive 'AN 8 J' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 23.09.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| SW Service Mileage: | 876411 KM | SW Service Date: | 31.08.1996 |
| A Service Mileage: | 835212 KM | A Service Date: | 19.07.1996 |
| B Service Mileage: | 671806 KM | B Service Date: | 31.01.1996 |
| C Service Mileage: | 919517 KM | C Service Date: | 19.10.1996 |
| D Service Mileage: | 521185 KM | D Service Date: | 11.08.1995 |
| US Service Mileage: | 1063367 KM | A Service Date: | 14.04.1997 |

**18.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER VENTURI INSTALLED CORRECTLY, A/C WRONG WAY. FLOW METER GAUGE HOSES CHANGED AROUND, A/C WRONG WAY. FLOW METER'.
**19.10.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - GEARCASE INSTALLATION COMPLETED.'.
**19.10.1993** Service defect: 'SW - ENGINE - FLYWHEEL COUNTERWEIGHT WELDED INTO POSITION.'.
**19.10.1993** Service defect: 'SW - GENERAL - FIRST MONTHLY SERVICE COMPLETED. LOCO LOAD TESTED OK (3850 HP).'.
**29.11.1993** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - B.C.P. PRESSURE SWITCH ADJUSTED.'.
**29.11.1993** Service defect: 'TS - ENGINE WATER LEAK - 'Y'PIECE REMOVED AND GASKET REPLACED, A/C WATER LEAK.'.
**29.11.1993** Service defect: 'TS - EXHAUST - EXHAUST REMOVED AND CHECKED FOR WATER LEAKS AND CRACKS, CHECKED OUT OK. LOCO LOAD TESTED.'.
**21.12.1993** Service defect: 'A - BOGIE - SNUBBER BLOCKS REFITTED TO BOGIES.'.
**21.12.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - JUMP CABLE RECEPTACLE REPAIRED A/C CAUSING POSITIVE EARTH.'.
**17.02.1994** Service defect: 'SW - ALTERNATOR - ALTERNATOR CHECKED FOR GR'S, MEGGERED OK.'.
**17.02.1994** Service defect: 'SW - BOGIE - BOGIES ROTATED AND TRI-MOUNTS CLEANED, 'B'END D/SIDE TRI-MOUNT PITTED. LOCO DIRECTION TESTED OK.'.
**17.02.1994** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - CONTROLLER MICRO SWITCH REPLACED.'.
**17.02.1994** Service defect: 'SW - TRACTION MOTOR - T/MOTOR CHECKED FOR GR'S, ALL MEGGERED OK.'.
**18.03.1994** Service defect: 'B - BOGIE - 'A'END FLANGE LUBE REPAIRED, A/C REGULATING VALVE LEAKING.'.
**18.03.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 'A'END MAGNET VALVE REPLACED.'.
**18.03.1994** Service defect: 'B - GENERAL - AIR FRIDGE FILTERS CHANGED, A/C BLOCKED AND FRIDGE NOT COLD.'.
**18.03.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ORIGINAL SINGLE STAGE RELAY VALVE REPLACED. WARRANTY.'.
**18.03.1994** Service defect: 'B - OTHER BODY REPAIRS - OBS. ARM REST REPLACED.'.
**18.03.1994** Service defect: 'B - R5 RESISTOR FOR FAULT LIGHTS TO REPLACE. EMD MOD.'.
**18.03.1994** Service defect: 'B - FOR L.PEARCE TO DO.18/3/94.'.
**11.04.1994** Service defect: 'TS - BATTERY MAINTENANCE - FLAT BATTERIES - STAB TESTED OKAY.'.
**26.04.1994** Service defect: 'UN - BOGIE - 2 NEW TRIMOUNTS FITTED TO FRONT BOGIE.'.
**26.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - FRONT COUPLING GEAR REPAIRED.'.
**14.06.1994** Service defect: 'A - GENERAL - DRIVERS AND OBS SIDE ARM RESTS REPAIRED.'.
**99.99.9999** Service defect: 'UN - NO GEAR CASE WHINING + WASH & SERVICE.'.

**AN 9**

Details: locomotive 'AN 9 S' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 25.12.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 22.04.1997 | | |
| SW Service Mileage: | 917502 KM | SW Service Date: | 22.04.1997 |
| A Service Mileage: | 888457 KM | A Service Date: | 13.03.1997 |
| B Service Mileage: | 674755 KM | B Service Date: | 06.06.1996 |
| C Service Mileage: | 832170 KM | C Service Date: | 29.11.1996 |
| D Service Mileage: | 509038 KM | D Service Date: | 25.11.1995 |
| US Service Mileage: | 836471 KM | A Service Date: | 19.12.1996 |

**17.01.1994** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - CONTROL CIRCUIT BREAKER REPLACED, A/C LOOSE CONNECTIONS ALSO'.
**17.01.1994** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - MOTOR TRANSFER C/BREAKER

FOUND U/S BECAUSE OF LOOSE CONNECTI-ONS. 23 OTHER CONNECTIONS TIGHTENED.'.

**17.01.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END TRAIN PIPE COCK REPLACED, A/C FAULTY.'.

**17.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PARK BRAKE SOLENOID REPAIRED. COMPRESSOR GOVERNOR ADJUSTED.'.

**25.01.1994** Service defect: 'SW - BOGIE - 'B'END BOGIE SHOCKER UPSIDE DOWN, REPAIRED.'.

**25.01.1994** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - STEP UP BRAKE VALVEIND. NOT FUNCTIONING, TO BE BY-PASSED.'.

**25.01.1994** Service defect: 'SW - OBS. SIDE SPEEDO TO REPLACE, A/C EL TYPE.25/1/94.'.

**14.02.1994** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - LOW POWER TRACED TO COMPUTER - NOTIFIED,CABLES AND MAIN CONTACTORS CHECKED - LOAD TESTED AND RUN SHORT DISTANCE.'.

**25.03.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - FAULT LIGHT RESISTOR REPLACED.'.

**25.03.1994** Service defect: 'A - ENGINE - LOCO LOAD TEST COMPLETED OK.'.

**25.03.1994** Service defect: 'A - GENERAL - TOILET OPERATION ADJUSTED & CHECKED OK.'.

**08.04.1994** Service defect: 'UN - GENERAL - ARMREST REPAIRED.'.

**08.04.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HOSES AND DUMMY COUPLINGS REPLACED.'.

**08.04.1994** Service defect: 'UN - OTHER BODY REPAIRS - HATCH REPAIRED.'.

**10.05.1994** Service defect: 'UN - DYNAMIC BRAKE - ALL CONTACTORS CHECKED, GRIDS CHECKED, T/M'S CHECKED. ALL FAILURES DUE TO LOW GRID V COMPARED TO GRID A. RATIO OK IN'.

**10.05.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PARK BRAKE VALVE DIODE REPLACED.'.

**10.05.1994** Service defect: 'UN - SPEEDO TO ADJUST A/C INCORRECT READINGS.10/5.'.

**16.06.1994** Service defect: 'B - ENGINE ROOM - TWO HATCH STRUTS REPLACED IN ENGINE ROOM.'.

**16.06.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - R/H B/PIPE COCKS INSTALLED.'.

**09.09.1994** Service defect: 'FA - TRACTION MOTOR - NO 1 TRACTION MTR PINION SLIPPING'.

**09.09.1994** Service defect: 'FA - TO MPC FOR REPAIRS'.

**AN 10**

Details: locomotive 'AN 10 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 06.02.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**Remarks:** STROED A/C DERAILMENT
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 11.01.1996 | | |
| SW Service Mileage: | 394906 KM | SW Service Date: | 15.09.1995 |
| A Service Mileage: | 486508 KM | A Service Date: | 15.12.1995 |
| B Service Mileage: | 388108 KM | B Service Date: | 08.09.1995 |
| C Service Mileage: | 256750 KM | C Service Date: | 13.01.1995 |
| US Service Mileage: | 514340 KM | A Service Date: | 11.01.1996 |

**03.02.1994** Service defect: 'UN - GENERAL - LOCO INSPECTION COMPLETED.'.

**03.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - KNUCKLE (SPARE) FITTED TO 'B'END OF LOCO.'.

**09.02.1994** Service defect: 'UN - NO FAULT FOUND - CHECK FOR WATER LEAKS & CRACKED BLOCK, CHECKED EXHAUST SCREEN, CHECKED ALL AREAS FOR WATER LEAKS, INSPECTED ENGINE'.

**21.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - TEMPORARY REPAIRS TO PILOT EFFECTED.'.

**21.02.1994** Service defect: 'UN - TEMPORARY REPAIRS TO PILOT EFFECTED, TO BE COMPLET'.

**21.02.1994** Service defect: 'UN - ED WHEN IN FOR BOGIE SWAP.21/2.'.

**02.03.1994** Service defect: 'SW - OTHER BODY REPAIRS - PILOT REPAIRS - PILOT REPAIRED AND PAINTED.'.

**08.03.1994** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - BLOWN FUSE IN ALTERNATOR REPLACED, DIODES CHECKED OK.'.

**08.03.1994** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - INSULATION PLACED BETWEEN CABLES AND BUSBARS ON MB R2 & R3 A/C RUBBING.'.

**08.03.1994** Service defect: 'SW - FUEL SYSTEM INJECTORS - NO 8 FUEL INJECTOR REPLACED, A/C FAILED POP TEST AND BUBBLESIN FUEL SIGHT GLASS.'.

**08.03.1994** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CHECKED OK.'.

**16.03.1994** Service defect: 'SW - BOGIE - ELS RELAY VALVE REPLACED ON 'A'BOGIE AND TESTED OK. DOUBLE LIFTED, A/C BOTH TRI-MOUNT PADS REPLACED.'.

**05.05.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - R5 RESISTOR - ONE ON LOCO UPGRADED.'.

**05.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE STRAINER REPLACED, A/C WRONG TYPE FITTED.'.

**05.05.1994** Service defect: 'A - OTHER BODY REPAIRS - D/SIDE W/WASHERS CLEARED. WASHERS CLEARED.'.

**AN 11**

Details: locomotive 'AN 11 A' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 22m

**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 09.04.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 28.04.1997 | | |
| SW Service Mileage: | 852810 KM | SW Service Date: | 07.04.1997 |
| A Service Mileage: | 863522 KM | A Service Date: | 23.04.1997 |
| B Service Mileage: | 797277 KM | B Service Date: | 15.01.1997 |
| C Service Mileage: | 240443 KM | C Service Date: | 04.04.1995 |
| D Service Mileage: | 648786 KM | D Service Date: | 02.07.1996 |
| US Service Mileage: | 867378 KM | A Service Date: | 28.04.1997 |

**29.03.1994** Service defect: ‘TS - MECHANICAL MAINTENANCE - AIR BRAKE - AIR COMPRESSOR GOVERNOR ADJUSTED, TESTED OK. MU2A VALVE REPAIRED.’.
**06.04.1994** Service defect: ‘UN - FUEL SYSTEM INJECTORS - NO 15 INJECTOR REPLACED, LOAD TESTED OK.’.
**15.04.1994** Service defect: ‘SW - CONTACTOR MISCELLANEOUS - ST CONTACTOR REPLACED.’.
**15.04.1994** Service defect: ‘SW - ELECT. MISC. - GAUGES & INSTRUMENTS - AIR PRESSURE GAUGE FITTED TO COMPRESSOR INTERCOOLER. APPROX 35PSI LOADED. 30 PSI UNLOADED.’.
**15.04.1994** Service defect: ‘SW - ENGINE - NEW WIRE MESH INLINE STRAINER FITTED, BRAKE RACK, O/SIDE ‘A‘END.’.
**15.04.1994** Service defect: ‘SW - STARTER MOTOR - STARTERS MOTORS REPLACED AND R11 RESISTOR.’.
**10.05.1994** Service defect: ‘SW - GENERAL - BOTH WINDSCREEN WIPER MOTORS CHANGED.’.
**10.05.1994** Service defect: ‘SW - MECHANICAL MAINTENANCE - AIR BRAKE - FLOWMETER REPAIRED, A/C ‘HANDS’ OUT OF SEQUENCE.’.

## 2.7 Locomotive classification starting with ‘BL’

**BL 26**

Details: locomotive ‘BL 26 E’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 28.03.1984
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED ‘BOB HAWKE‘
**BSG Code:** LSAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 03.04.1997 | | |
| Last Lift: | 30.05.1990 | | |
| SW Service Mileage: | 1139571 KM | SW Service Date: | 13.01.1997 |
| A Service Mileage: | 1172829 KM | A Service Date: | 10.03.1997 |
| B Service Mileage: | 996300 KM | B Service Date: | 03.06.1996 |
| C Service Mileage: | 902115 KM | C Service Date: | 04.12.1995 |
| D Service Mileage: | 1119448 KM | D Service Date: | 06.12.1996 |
| E Service Mileage: | 748574 KM | A Service Date: | 16.01.1995 |
| F Service Mileage: | 0 KM | A Service Date: | 30.05.1990 |
| WT Service Mileage: | 597268 KM | WT Service Date: | 23.03.1994 |
| US Service Mileage: | 1184905 KM | A Service Date: | 03.04.1997 |

**17.12.1986** Alteration complete ‘APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)’.
**05.07.1989** Service defect: ‘C - COOLING SYSTEM RADIATOR - L1 RADIATOR CORE CHANGED A/C LEAK.’.
**12.07.1989** Service defect: ‘UN - DYNAMIC BRAKE - D/BRAKE BOOKED SEVERE.WIRE FOUND OFF B1 RESISTOR ‘A‘END, REPLACED.’.
**27.07.1989** Service defect: ‘SW - RADIATOR/PRESSURISING FAN - ALL PINS REPLACED NO2 RADIATOR FAN (FEMALE SIDE).TESTED OK.’.
**03.08.1989** Service defect: ‘UN - BOGIE - GEAR CASES TIGHTENED.’.
**09.08.1989** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES CLEARED A/C BLOCKED.’.
**28.08.1989** Service defect: ‘UN - FUEL SYSTEM INJECTORS - NO7 INJECTOR CHANGED A/C EXCESS SMOKE FROM EXHAUST.PISTON EXAMINED.LASH ADJUSTMENT CHECKED.’.
**02.09.1989** Service defect: ‘UN - ENGINE CYLINDER HEADS - NO 7 CYL HEAD CHANGED.LASH ADJUSTERS CHANGED.’.
**02.09.1989** Service defect: ‘UN - PEE PIPE - NO 7 PEE PIPE CHANGED.’.
**15.09.1989** Service defect: ‘UN - ENGINE - NO 7 PISTON RINGS & INJECTOR CHANGED A/C SMOKEY EXHAUST.’.
**27.09.1989** Service defect: ‘A - ENGINE PISTON - NO.7 PISTON & CONROD REPLACED.’.
**27.09.1989** Service defect: ‘A - RADIATOR/PRESSURISING FAN - NO.1 RADIATOR FAN MOTOR REPLACED A/C EARTH.27/9.’.
**12.10.1989** Service defect: ‘UN - TRACTION MOTOR FLASHOVER - SLIGHT FLASH ON NO5 TM CLEANED.’.
**25.10.1989** Service defect: ‘TS - ELECTRICAL MISC. MODULES - BOOKED FOR LOSS OF POWER.SE13 MODULE FOUND PULLED FROM PINS.PUSHED IN,CHECKED OK.’.
**06.12.1989** Service defect: ‘B - AUXILLARY MACHINES - TEST FUEL PUMP BRUSHES FITTED.’.
**06.12.1989** Service defect: ‘B - BOGIE MAINTENANCE - SPRINGS - TWO OUTER SPRINGS ON R2 REPLACED.’.
**06.12.1989** Service defect: ‘B - BROKEN PIPE - LUBE OIL PIPE TO GOV REPAIRED.’.

**12.12.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - DP & DR MODULES QUALIFIED.'.
**19.12.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS BOOKED FOR FLATS,CHECKED OK.'.
**19.12.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - DP & DR MODULES QUALIFIED A/C EXCITATION LIGHT ON.'.
**21.12.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED.SENT TO WTM.'.
**21.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO BOOKED NOT WORKING,CHECKED OK.'.
**06.01.1990** Service defect: 'UN - ROOF BOLTS REQUIRE ATTENTION'.
**11.01.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DP MODULE QUALIFIED AND DR MODULE REPLACED.'.
**02.03.1990** Service defect: 'UN - BOGIE - BOLSTER WEAR PLATE RENEWED.'.
**30.05.1990** Service defect: 'F - ELECTRICAL MISCELLANEOUS - DOOR FITTED. DYN. BKE. AND RADIATOR FANS OVERHAULED. MARKER LIGHT BOX MODIFICATION COMPLETED. 1,000,000 KMS MOTOR.'.
**30.05.1990** Service defect: 'F - ELECTRICAL MISCELLANEOUS - POSITIONED AND VIG. BUTTON MOD TO ARMREST COMPLETED. CLIP BOARD AND LIGHT FITTED ABOVE SPEEDO. TWO MAN CREW CABINET'.
**30.05.1990** Service defect: 'F - ENGINE - ENGINE EX BL 28 SERIAL NUMBER 81-L1-1097 INSTALLED INTO BL26WATER AND OIL PUMPS OVERHAULED. NEW HEADS, PISTONS & LINERS.'.
**30.05.1990** Service defect: 'F - ENGINE - FITTED. CRAB PLATES INSTALLED. MECHANICALLY BONDED RADIATORSFITTED. RADIAL PLATE MOD V/LINE COMPLETED. VIG. GAUGE RE-'.
**30.05.1990** Service defect: 'F - ENGINE - MAIN, BIG END AND CAMSHAFT BEARINGS REPLACED. NEW NO 1 IDLERGEAR FITTED. NEW LINER INSERTS AND NEW CARRIER BEARINGS. ALL'.
**30.05.1990** Service defect: 'F - ENGINE - ROCKERS O/HAULED. ACCESSORY END COVER DRILLED & DOWELLED, NEW CARRIER RETAINERS INSTALLED. RECONDITIONED LASH ADJUSTER'.
**04.06.1990** Service defect: 'SW - BOGIE - BOGIES REPLACED.'.
**04.06.1990** Service defect: 'SW - TRACTION MOTOR - ALL TM'S REPLACED.(IN 81E1-1224,81E1-1255,82E1-1003, 81M1-1014,81E1-1243,82H1-1025).'.
**07.06.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED DEFECTIVE,GRIDS CHECKED & MODULE RESET,OK.'.
**12.06.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DG MODULE REPLACED.'.
**14.06.1990** Service defect: 'UN - DYNAMIC BRAKE - GRID BLOWER LIGHT ON.RESET.'.
**28.06.1990** Service defect: 'UN - BOGIE - TRI-MOUNT SPREADER BAR REPAIRED & RUBBERS REPLACED.'.
**06.07.1990** Service defect: 'UN - BOGIE - NO4 GEARCASE CHANGED A/C DERAILMENT DAMAGE.'.
**06.07.1990** Service defect: 'UN - EXHAUST - EXHAUST BELLOWS BETWEEN TURBO & EXHAUST PIPE REPLACED.'.
**15.08.1990** Service defect: 'SW - ALTERNATOR - D18 ALTERNATOR STATOR REPLACED BY CA5 ALTERNATOR STATOR A/C BURNT OUT.'.
**15.08.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - COUPLER LIGHTS REPAIRED. RADAR & RADAR BRACKET REPLACED A/C WRITTEN OFF IN COLLISION.'.
**15.08.1990** Service defect: 'SW - GENERAL - INSPECTOR'S LARGE SEATS NOT FITTED A/C UNAVAILABILTY OF SHEETMETAL WORKERS & CARRIAGE MAKERS.'.
**15.08.1990** Service defect: 'SW - GENERAL ACCIDENT - (1) L.H. & (1) R.H. BRACE ASSY., (1) L.H. & (1) R.H. UNCOUP-LER ASSY. (1) MOUNTING FRAME FOR RADAR UNIT, (2) SANDER'.
**15.08.1990** Service defect: 'SW - GENERAL ACCIDENT - BRAKE HANGERS TO STRAIGHTEN - COMPLETED.'.
**15.08.1990** Service defect: 'SW - GENERAL ACCIDENT - COLLISION BEAM REPAIRED, NEW PARTS FITTED - (1) PILOT ASSY. (1) REMOVABLE SKIRT ASSY., (1) MOUNTING PLATE ASSY.'.
**15.08.1990** Service defect: 'SW - GENERAL ACCIDENT - COLLISION REPAIRS - INCIDENT NO. HB12. * STEP TO REBUILD - COMPLETED.* BRAKE CYLINDER TO FIT - COMPLETED'.
**15.08.1990** Service defect: 'SW - GENERAL ACCIDENT - PIPEWORK TO REPAIR - COMPLETED. * TRIMOUNTS TO REPAIR - COM-PLETED. * BUFFER PAD TO FIT - COMPLETED.'.
**15.08.1990** Service defect: 'SW - GENERAL ACCIDENT - VALVES, (1) WINDSCREEN WASHER RESERVOIR. REPAIRED, REPAINTED'.
**22.08.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 6 BRUSHES NO 1 TM,1 BRUSH NO5 TM CHANGED A/C BROKEN PIGTAILS'.
**29.08.1990** Service defect: 'UN - TRACTION MOTOR - FF LEAD ON NO1 TM REPAIRED.'.
**17.09.1990** Service defect: 'UN - BOGIE - 'A'END TRI-MOUNT STOP WELDED.'.
**26.09.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 2 TM SLIGHT FLASH,REPLACED 6 BRUSHES A/C BLOWN PIGTAILS.'.
**22.10.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP GOV PRESSURE SWITCH REPLACED.'.
**28.10.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.
**28.10.1990** Service defect: 'UN - TRACTION MOTOR - ALL TM'S CHANGED.(IN 81H1-1899,81B1-1242,82B1-1009,82B1-100187CC-157,81F1-1076).'.
**17.11.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN HOLDING DOWN BOLT REPAIRED.'.
**17.11.1990** Service defect: 'UN - TRACTION MOTOR - NO5 TM CLEANED A/C FLASHOVER.3 BRUSHES REPLACED IN NO4 TM A/C PIGTAILS.'.
**30.11.1990** Service defect: 'UN - GENERAL - ENGINE ROOM WINDOW NOT REPLACED A/C BODY WORK DAMAGED.'.
**30.11.1990** Service defect: 'UN - LHS ENGINE ROOM WINDOW TO REPLACE,BODY DAMAGED.'.
**10.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPAIRED.'.
**11.02.1991** Service defect: 'UN - EXHAUST - EXHAUST GASKETS REPLACED AND LOCO TESTED OKAY *'.
**19.02.1991** Service defect: 'UN - TRACTION MOTOR

FLASHOVER - REPLACED BRUSHES ON 1 & 6 TM'S A/C FLASH OVERS.COMS OK, MAIN ALT OK.'.

**25.02.1991** Service defect: 'A - COOLING SYSTEM RADIATOR - RAD WATER HEADER TANK CAP REMOVED FOR BL25,REPLACED.'.

**25.03.1991** Service defect: 'UN - GENERAL - 'A' END HOT PLATE REPAIRED,SWAPPED 'B'END HOT PLATE.'.

**10.05.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 3 GR'S,1 BRUSH HOLDER REPLACED NO 4 T/M,A/C FAULTY HAMMER.'.

**22.05.1991** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - EXPLODED PACKAGE - 'B' END PACKAGE REPLACED.'.

**22.05.1991** Service defect: 'C - TURBO EXPANSION JOINT TO REPLACE A/C BROKEN 22/5.'.

**22.05.1991** Service defect: 'C - 'B' END TRI MOUNT PADS TO REPLACE 22/5.'.

**22.05.1991** Service defect: 'C - OIL LEAK TO MONITOR 22/5.'.

**28.05.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - FF LEAD NO1 TM CLEAT INSULATION RUBBER REPOSITIONED.'.

**28.05.1991** Service defect: 'TS - TRACTION MOTOR BRUSHES - NO1 T/M FRAYED PIGTAILS,BRUSHES REPLACED.'.

**28.05.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO3 T/M FLASHED OVER,CLEANED INSULATORS,COMM,V RING,REST OF T/M'S OK.'.

**06.06.1991** Service defect: 'TS - TRACTION MOTOR LOOSE PINION - NO 3 T/MOTOR CHANGED OUT,A/C SLIPPED PINION. IN-81E1 1274. OUT-81F1 1076.'.

**15.07.1991** Service defect: 'UN - GENERAL - SIDE BLINDS FITTED.'.

**18.07.1991** Service defect: 'UN - GENERAL - F/MANS WINDOW 'A'END REPLACED.'A'END DRIVERS BLIND (SIDE) REPAIRED.'.

**29.07.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN BOLT REPAIRED, A/C BROKEN.'.

**29.07.1991** Service defect: 'UN - COOLING SYSTEM - COOLANT CHANGED.'.

**29.07.1991** Service defect: 'UN - EXHAUST - EXHAUST EXPANSION JOINT REPLACED.'.

**29.07.1991** Service defect: 'UN - GENERAL - OBS SIDE WINDSCREEN 'A'END REPLACED, A/C CHIPPED.'.

**05.08.1991** Service defect: 'UN - LUBRICATING SYSTEM - LOCO WASHED, A/C POSSIBLE OIL LEAK,CHECKED OK IN DEPOT.'.

**10.08.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED, A/C OIL LEAKS.'.

**24.08.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 15 BRUSHES CHANGED ON NO'S 4,5 & 6 T/M'S,NO 3 T/M CLEANED, A/C PIGTAILS HANGING.'.

**20.09.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET REPLACED, A/C JOURNAL FINISH TO ROUGH.'.

**20.09.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 5 T/MOTOR REPLACED, A/C GROUND RELAYS.'.

**20.09.1991** Service defect: 'TS - ENGINE - NO 6 ROCKER GEAR REPLACED,EX BL 28.'.

**20.09.1991** Service defect: 'TS - GENERAL - INSPECTORS SEAT FITTED.'.

**21.09.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 2 T/MOTOR WIPED CLEAN & 6 BRUSHES CHANGED, A/C GR'S.'.

**05.11.1991** Service defect: 'UN - BROKEN PIPE - EXPANDER FROM TURBO TO EXHAUST REPAIRED.'.

**24.12.1991** Service defect: 'TS - TRACTION MOTOR BRUSHES - BRUSH HOLDER CHANGED NO. 1 T/M.'.

**29.01.1992** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - NEW CAPICITORS INSTALLED & TESTED OK.'.

**29.01.1992** Service defect: 'SW - TRACTION MOTOR - T/MOTOR CUT OUT FITTED.TESTED OK.'.

**04.02.1992** Service defect: 'TS - AIR CONDITIONING - AIR CONDITIONER FAULT REPAIRED.'.

**04.02.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - REPLACED 8 WW1 WIRE - T/M CUT OUT SWITCH TO TERMINAL D3.D/B NOW OK.'.

**25.02.1992** Service defect: 'UN - TRACTION MOTOR - NO 1 GEAR CASE REMOVED ,SPLIT IN CASING REP.G/CASE REPLACED.'.

**03.03.1992** Service defect: 'A - GENERAL - NOSE SUSPENSION PIN REPAIRED OK.'.

**03.03.1992** Service defect: 'A - TRACTION MOTOR - T/MOTOR NO5 BRUSH HOLDERS CHANGED OK.'.

**03.03.1992** Service defect: 'A - VIGILANCE - V/CONTROL NOW WORKING OK.'.

**03.03.1992** Service defect: 'A - MOST SUSPENTION UNITS,BUSHES MISSING OR BROKEN.3/3'.

**15.04.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - 12 BRUSHES CHANGED,PULLED TAILS,BRUSH HOLDER CHANGED TOP SIDE,A/C GR'S.'.

**23.04.1992** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED,A/C ARMATURE U/S.LOCO MOVEMENT TESTED OK IN POWER & DYN/BRAKE.'.

**01.05.1992** Service defect: 'UN - GENERAL - CRACK IN MICHIANA TANK REPAIRED.OK.'.

**08.05.1992** Service defect: 'UN - BOGIE - NO 1 & NO 3 NOSE SUPPORTS REPLACED/REPAIRED.LATERAL CLEARANCES ADJUSTED.'.

**27.05.1992** Service defect: 'UN - BOGIE - NO 5 GEARCASE WELDED.'.

**24.06.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - 7 BRUSHES CHANGED IN NO 1 T/MOTOR,A/C SHATTERED BRUSHES & PULLED PIGTAILS RESULTING IN GR'S.'.

**12.07.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - CHANGED 12 T/M BRUSHES IN NO.1 T/M.A/C FRAYED AND BROKEN PIGTAILS.'.

**15.07.1992** Service defect: 'UN - BOGIE - L5 AXLE BOX REPLACED.A/C BROKEN OIL SLINGER AT THE BACK OF THE BOX.-LATERAL CLEARANCES CHECKED OK.AXLE BOX LUBED.'.

**26.08.1992** Service defect: 'D - ALTERNATOR - ALTERNATOR SLIP RINGS SENT TO ISLINGTON FOR MACHINING. A/C FLATS. SLIP RINGS MACHINED OK AND RE-FITTED.'.

**26.08.1992** Service defect: 'D - BOGIE MAINTENANCE - BOLSTERS - ALL BOLSTERS CHECKED OK. ALL RUBBERS OK.'.

**26.08.1992** Service defect: 'D - BOGIE MAINTENANCE - WICKS - NO.1 WICKS CHECKED OK AFTER TRIP.'.

**26.08.1992** Service defect: 'D - ENGINE - ENGINE MOUNTING BOLTS TIGHTENED.'.

**26.08.1992** Service defect: 'D - LUBRICATING SYSTEM - TIGHTENED ENGINE LUBRICATING LINES TO MICHIANA.'.

**26.08.1992** Service defect: 'D - TRACTION MOTOR - NO. 1 T/M CHANGED A/C BAD FLATS ON COMMUTATOR. T/M NO.D77B-71FI-130I.'.
**26.08.1992** Service defect: 'D - TRACTION MOTOR BRUSHES - 12 T/M BRUSHES CHANGED A/C PULLED PIG TAILS. 22 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.
**09.03.1993** Service defect: 'UN - ALTERNATOR - MAIN ALTERNATOR REPLACED.'.
**09.03.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED.'.
**09.03.1993** Service defect: 'UN - GENERAL - ALL CAB MODS COMPLETED. BREMSHEY SEATS FITTED.'.
**09.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX LIDS MODIFIED.'.
**09.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL MAIN RESERVOIR COCKS REPLACED.'.
**09.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - COWCATCHER 'B'END REPLACED.'.
**09.03.1993** Service defect: 'UN - BLIND OBS/SIDE 'B'END TO FIT.9/3.'.
**20.04.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRE FOUND BROKEN ON O/S V/C BUTTON-REPAIRED,DRIVERS SIDE BUTTON REPLACED A/C BROKEN.'.
**20.04.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT REPLACED A/C SUPER SERIES FAILURE.'.
**11.05.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.6 T/M FLASHED OVER A/C HANGING PIGTAILS. ALL BRUSHES IN NO.6 T/M REPLACED. ALL OTHER MOTORS OK.'.
**14.05.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED. 'B'END TRI-MOUNT PADS REPLACED. BOLSTER PADS REPLACED.'.
**14.05.1993** Service defect: 'SW - GENERAL - WIPERS REPAIRED.'.
**22.05.1993** Service defect: 'UN - BOGIE - L3 SPRING RESEATED AFTER AXLE DROPPED.'.
**01.06.1993** Service defect: 'A - ELECTRICAL MISC. MODULES - LC107 MODULE REPLACED WITH ONE FROM BL33.'.
**01.06.1993** Service defect: 'A - GENERAL - ARM RESTS FOR BOTH 'A' END SEATS REPAIRED.'.
**01.06.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDERS CLEARED.'.
**01.06.1993** Service defect: 'A - TRACTION MOTOR - NO.1 T/M TOP SIDE BRUSH HOLDER REPLACED A/C WORN SPRING. NO.4 T/M BOTTOM SIDE BRUSH HOLDER REPLACED A/C SEIZED SPRING'.
**07.08.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO TO INTERCOOLER GASKET REPLACED.'.
**07.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - UNCOUPLING RODS 'A'END REPLACED.'.
**07.08.1993** Service defect: 'UN - SMALL OIL LEAK ON OIL COOLER TO MONITOR.7/8.'.
**23.08.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R1, R6, L3 AND L4 WICKS CHANGED A/C DIRTY.'.
**23.08.1993** Service defect: 'B - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - ONE DYN. BRAKE GRID REPLACE A/C MELTED TOGETHER IN ONE SPOT.DYNAMIC CORP. BRAND GRID.'.
**23.08.1993** Service defect: 'B - ENGINE - OIL LEAK IN ENGINE ROOM REPAIRED. OIL COOLER FOUND LEAKING. REPAIRED. ENGINE ROOM WASHED.'.
**23.08.1993** Service defect: 'B - OTHER BODY REPAIRS - D/SIDE STEP REPAIRED.'.
**23.08.1993** Service defect: 'B - TRACTION MOTOR - NO.6 BOTTOM BRUSH HOLDER REPLACED.'.
**24.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR REPAIRS - COMPRESSOR MAGNET VALVE + INTERCOOLER VALVE REPLACED, A/C U/S. PARTS TAKEN FROM BL 29.'.
**01.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO ARMATURE AND BRUSHES REPLACED A/C BURNT OUT.'.
**06.11.1993** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE CHANGED OUT, A/C BURNT. TESTED OK.'.
**15.11.1993** Service defect: 'TS - ELECTRICAL MISC - RADAR TRANSCEIVER - REG FAILURE AND NO RADAR ON SW MODULE. LOSING RADAR INPUT SIGNAL AT RA MODULE, PIN 28. RADAR POWER SUPPLY AT 14.75 V.'.
**15.12.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - ALL BRUSHES ON NO.1 T/M CHANGED, A/C FRAYED OR PULLED PIGTAILS. NO.5 T/M BRUSHES CHANGED A/C ALL SHORT.'.
**23.12.1993** Service defect: 'TW - WHEELSLIP - ALL BRUSHES CHANGED IN NO.3, A/C FRAYED OR PULLED PIGTAILS. 9 BRUSHES IN NO.6, A/C SHORT BRUSHES. OTHER MOTORS OK.'.
**18.01.1994** Service defect: 'TW - FUEL SYSTEM - SPIN ON FUEL FILTERS REPLACED, A/C FUEL IN BOTH SIGHT GLASSES.'.
**08.02.1994** Service defect: 'C - BOGIE - BOLT FITTED ON AXLE BOX LINER.'.
**08.02.1994** Service defect: 'C - ENGINE - AIR DRYER FITTED.'.
**21.02.1994** Service defect: 'TS - AIR CONDITIONING - AIR/CON START CONTACTOR FITTED, EX BL 27, A/CON COOLING OK.'.
**21.02.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INSTALLATION COMPLETED. OIL PRESSURE- IDLE 80PSI. OIL PRESSURE NOTCH 8- 50PSI.'.
**21.02.1994** Service defect: 'TS - LUBRICATING SYSTEM - OIL LEAK REPAIRED ON OIL LINE FROM HOT OIL DETECTOR.'.
**21.02.1994** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR INSTALLATION COMPLETED. OIL PRESSURE- IDLE 35PSI.OIL PRESSURE NOTCH 8 - 35PSI.'.
**21.02.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BOTH 135 PSI SAFETY VALVES REPLACED. 'B' END EQUALISING GAUGE INSTALLED.'.
**26.02.1994** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN DRIVE REPLACED.'.
**26.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE WINDOW REPLACED, A/C BROKEN.'.
**21.03.1994** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - WHEEL SHEET DONE. WHEELS GAUGED AND CHECKED FOR FLATS. LOCOTO GO TO WTM.'.
**21.03.1994** Service defect: 'SW - EXHAUST - EXHAUST EXPANSION JOINT BETWEEN INLET SCREEN AND

TURBO REPLACED. EXPANSION JOINT EX DL45.'.

**21.03.1994** Service defect: 'SW - GENERAL - FUEL CUT-OFF FLOAT DRIVERS SIDE. FUEL OVER-RIDE BUTTON OBS.SIDE REPLACED.'.

**30.03.1994** Service defect: 'UN - TRACTION MOTOR - NO 2 T/MOTOR NOSE SUPPORT AND PINS REPLACED.'.

**08.04.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING U/S - REPLACED ON PROPER TERMINALS AND OPERATION CHECKED OK.'.

**08.04.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - T/M BRUSHES CHANGED IN NO'S 2,3 AND 5, A/C VICTORIAN BRUSHESDIFFERENT GRADE.'.

**09.04.1994** Service defect: 'TS - GR'S - NO 3 T/M CUT OUT, T/M INSPECTED, INTERPOLE'.

**09.04.1994** Service defect: 'TS - DOWN TO EARTH. T/M RECONNECTED, LOCO SENT INTO'.

**09.04.1994** Service defect: 'TS - TRAFFIC. T/M TO BE REPLACED.9/4.'.

**14.04.1994** Service defect: 'SW - TRACTION MOTOR EARTH - NO 3 T/MOTOR REPLACED, A/C EARTH IN INTERPOLES. DIRECTION TESTED OK.'.

**21.04.1994** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - REPLACED 'A' AND 'B' END KNUCKLES.'.

**22.04.1994** Service defect: 'SW - TRACTION MOTOR - NO 2 T/MOTOR REPLACED, A/C DOWN TO FRAME ON INTERPOLES. T/M IN: 81FI65. T/M OUT: 81L1- 1030.'.

**02.05.1994** Service defect: 'A - NO 1 T/M TO MONITOR, A/C SUSPECTED FLATS ON COMM.'.

**02.05.1994** Service defect: 'A - NO 2 AND 5 NOSE SUSPENSION BUSHES TO REPLACE.3/5.'.

**09.05.1994** Service defect: 'UN - BOGIE - 'A'END OBS/SIDE AND BOTH 'B'END TRIMOUNT RUBBERS REPLACED, A/C U/S.'.

**09.05.1994** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRS - RADIO TESTED OK.'.

**26.05.1994** Service defect: 'UN - BOGIE - NO 2 GEAR CASE FOUND LOOSE, TIGHTENED. CHECKED OK. NO 2 AXLE SPTINGS CHECKED, ALL OK. NO 1 AXLE SUSPENSION'.

**26.05.1994** Service defect: 'UN - TRACTION MOTOR FLASHOVER - T/MOTOR FLASHED - ALL BRUSHES CHANGED, COMM CLEANED. 12 O'CLOCK BRUSH HOLDER REPLACED.'.

**07.06.1994** Service defect: 'UN - BOGIE - GEARCASES REPLACED, AXLE END COVERS FITTED. L THRUST PAD CHANGED. LATERALS ON 1 & 2 W/SET COMPLETED. W/SHEET DONE.'.

**07.06.1994** Service defect: 'UN - OTHER BODY REPAIRS - COWCATCHER BOLTS REPLACED.'.

**07.06.1994** Service defect: 'UN - BOGIES TO CHANGE, A/C GEAR WEAR ON 1,2 & 3 AXLES.'.

**11.06.1994** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED. SIDE STEPS WELDED INTO POSITION.'.

**15.06.1994** Service defect: 'UN - BOGIE - R1 AND R3 BOGIE SPRINGS RELOCATED INTO CORRECT POSITION.'.

**15.06.1994** Service defect: 'UN - TRACTION MOTOR - NO 4 T/M BELLOWS REPLACED.'.

**15.06.1994** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 2 T/MOTOR CLEANED UP , A/C FLASHOVER.'.

**BL 27**

Details: locomotive 'BL 27 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 02.09.1983
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 26.03.1997 | | |
| Last Lift: | 29.08.1994 | | |
| SW Service Mileage: | 284933 KM | SW Service Date: | 26.03.1997 |
| A Service Mileage: | 276432 KM | A Service Date: | 10.03.1997 |
| B Service Mileage: | 97188 KM | B Service Date: | 23.05.1996 |
| C Service Mileage: | 210561 KM | C Service Date: | 22.11.1996 |
| D Service Mileage: | 819779 KM | D Service Date: | 24.11.1992 |
| E Service Mileage: | 475946 KM | A Service Date: | 24.10.1990 |
| F Service Mileage: | 1166804 KM | A Service Date: | 29.08.1994 |
| WT Service Mileage: | 706178 KM | WT Service Date: | 28.04.1992 |
| US Service Mileage: | 229750 KM | A Service Date: | 02.01.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**05.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLAT WHEELS - WHEELS CHECKED OK,RELEASED TO TRAFFIC.'.

**22.08.1989** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.'.

**22.08.1989** Service defect: 'SW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT BOOKED AS UNABLE TO TURN OFF.HEADLIGHTS CHECKED OK'.

**22.08.1989** Service defect: 'SW - ENGINE - ENGINE AIR FILTERS CHANGED.'.

**31.08.1989** Service defect: 'SW - GENERAL - DUMMY RECEPTACLES - EN104 MODULE - HEATER SWITCH MODS COMPLETED - BOGIES PAINTED'.

**31.08.1989** Service defect: 'SW - GENERAL - MODS NO-184 - M208AD - M209AD'.

**31.08.1989** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED'.

**11.10.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR INTERMITTENT POWER LOSS.CM,FM,RA MODULES QUALI- FIED.RADER EYE CLEANED A/C DIRTY.NOT DROPPING POWER IN DEPOT'.

**20.10.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - AUX.GEN.CB.&HOT PLATE CB REPLACED A/C FAULTY.'.

**28.10.1989** Service defect: 'A - PEE PIPE - NO 11 & 16 PEE PIPES REPLACED.'.

**28.10.1989** Service defect: 'A - ELECTRICAL 'A'SERVICE / NOS.11&16 'P'PIPES TO'.
**28.10.1989** Service defect: 'A - REPLACE.'.
**15.11.1989** Service defect: 'UN - GENERAL - FUEL TANK BOLTS TIGHTENED A/C LOOSE.'.
**19.11.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE G/RELAY LIGHT ON.TM'S CHECKED OK,GRIDS & BLOWER MOTORS CHECKED OK,ANNUNCIATOR RESET.P-10M.'.
**22.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - 'B'END BOLSTER SHOCKER REPLACED.'.
**30.11.1989** Service defect: 'SW - COOLING SYSTEM WATER PUMP - R/H WATER PUMP OUTLET ELBOW GASKET REPLACED.'.
**09.01.1990** Service defect: 'TS - ELECTRICAL MISC. MODULES - SC2 MODULE REPLACED.LOADING CHECKED OK.'.
**05.02.1990** Service defect: 'UN - ENGINE - ENGINE PROTECTION DEVICE REPLACED.'.
**20.02.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - INVESTIGATED AIR CONDITIONING FAULT.'.
**20.02.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - REPAIRED NEUTRAL WIRE 'B'CONTROL STAND A/C AIR/CON NOT WORKING.'.
**19.03.1990** Service defect: 'A - COOLING SYSTEM RADIATOR - L2 RADIATOR CHANGED.'.
**30.03.1990** Service defect: 'UN - BOGIE - 'B' END BOGIE TRI-MOUNT STOP WELDED A/C CRACKED.'.
**06.04.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO BOOKRD NOISY,CHECKED OK.'.
**06.04.1990** Service defect: 'UN - FUEL SYSTEM - FUEL TANK BOLTS TIGHTENED.'.
**26.04.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - R2 BRAKE CYLINDER REPIPED.'.
**26.04.1990** Service defect: 'SW - OTHER BODY REPAIRS - DIRECTION INDICATORS FITTED.'.
**26.04.1990** Service defect: 'SW - FIT AIR DRY SYSTEM TO MODIFICATION INSTRUCTIONS /'.
**26.04.1990** Service defect: 'SW - CHECK BRAKE TRAVEL AND RIGGING.* FIT THROUGH WORK-'.
**26.04.1990** Service defect: 'SW - ING EQUIPMENT AS AVAILABLE.'.
**04.06.1990** Service defect: 'SW - SIDE BLINDS TO FIT.V/LINE OBSERVERS VIG LIGHT TO'.
**04.06.1990** Service defect: 'SW - FIT.INSPECTORS SEAT(LARGE)TO INSTALL.4/6*'.
**13.07.1990** Service defect: 'UN - AUXILLARY MACHINES - D/BRAKE REAR BLOWER MOTOR CHANGED.'.
**13.07.1990** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO3 TM BRUSH HOLDER REPLACED.'.
**20.07.1990** Service defect: 'UN - BOGIE - 'A'END LHS SHOCKER CHANGED.'.
**23.07.1990** Service defect: 'UN - BOGIE - 'B'END TRI-MOUNT STOP REPAIRED.'.
**03.08.1990** Service defect: 'UN - GENERAL - 'A'END F/MANS WINDSCREEN REPLACED.'.
**10.08.1990** Service defect: 'UN - BOGIE - 'B'BOGIE TRI-MOUNT RUBBERS REPLACED.'.
**28.08.1990** Service defect: 'UN - BOGIE - LHS 'A'BOGIE TRI-MOUNT REPLACED.'.
**04.10.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIRS COMPLETED.'.
**15.10.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BRUSHES REPLACED IN NO'S 1,3 5 TM'S A/C FRAYED & HANGING PIGTAILS.P-10M.'.
**27.11.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL INJECTORS & LASH ADJUSTERS REPLACED.'.
**07.12.1990** Service defect: 'UN - LOCO TO HAUL TO M.P.C. OIL AND WATER REQD, P PIPE'.
**07.12.1990** Service defect: 'UN - FITTED, NO GAUGE AT M.E.D.D. TO BE ADJUSTED AT'.
**07.12.1990** Service defect: 'UN - M.P.C. M.P.C. STAFF ADVISED BY A.WATKINS OF'.
**07.12.1990** Service defect: 'UN - WHAT HAS TO BE DONE'.
**07.01.1991** Service defect: 'UN - ENGINE - CRACKED BLOCK-CRACKS WELDED.'.
**17.01.1991** Service defect: 'SW - LUBRICATING SYSTEM - LOAD TEST A/C OIL LEAK. RELEASED TO TRAFFIC A/C POWER SHORTAGE. FURTHER REPAIRS REQUIRED.'.
**07.02.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVES REPAIRED A/C DROPPING OFF LOAD'.
**07.02.1991** Service defect: 'A - LOW TENSION EARTH TO REPAIR'.
**26.02.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON REPAIRED,AIR FRIDGE REPLACED.'.
**22.03.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED OUT,A/C MAJOR OIL LEAK. IN/ 81-11-1178. OUT/ 81-J1-1133.'.
**22.03.1991** Service defect: 'UN - ENGINE WATER LEAK - L.H.S.RADIATOR CHANGED,A/C WATER LEAK.'.
**03.04.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO1&6 T/MOTOR BRUSHES REPLACED A/C PULLED PIG TAILS.'.
**23.05.1991** Service defect: 'UN - NO FAULT FOUND - ENGINE ROOM CLEANED,CHECKED FOR OIL LEAKS,NONE FOUND.LOCO RELEASED TO TRAFFIC & TO MONITOR.'.
**26.05.1991** Service defect: 'UN - DYNAMIC BRAKE - CHANGED 1 BRUSH NO2 BRK FAN,A/C ARCING AT HAMMER CONTACT. RESET GRID BLOWER MOTOR OPEN & DG MODULE.'.
**04.06.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - GC MODULE REPAIRED & REPLACED,A/C NO REV'S.'.
**05.06.1991** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - GAUGE LIGHT DIMMER SWITCH 'B'END CHANGED,A/C DAMAGED.'.
**05.06.1991** Service defect: 'B - TRACTION MOTOR - EARTH STRAP ON NO 2 T/MOTOR REPLACED,A/C BROKEN.'.
**05.06.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 20 T/M BRUSHES CHANGED FRONT BOGIE,A/C BROKEN,8 FRAYED PIGTAILS,NO1 12 BRUSHES, NO3 8 BRUSHES.13 T/M BRUSHES'.
**27.06.1991** Service defect: 'TW - BOTH SEATS NO 1 END TO BE REPLACED,A/C FOAM PADDIN'.
**27.06.1991** Service defect: 'TW - G COLLAPSED.28/6.'.
**29.07.1991** Service defect: 'UN - BOGIE - TRI-MOUNT STOPS REPAIRED, A/C BROKEN OFF.'.
**29.07.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 1 T/MOTOR CLEANED, A/C SLIGHT FLASHOVER,(PITTING & SPLASHES OF COPPER ON EDGE OF COMMUTATOR).'.
**02.08.1991** Service defect: 'UN - TRACTION MOTOR

ARMATURE BEARING - 12 T/M BRUSHES CHANGED, A/C FLATS ON ARMATURE.'.

**14.08.1991** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - NEGATIVE TO OBS SIDE STEPWELL LIGHT (NL29)RECONNECTED AT TB33,CHECKED OK.'.

**14.08.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - CHANGED BOTH FUEL PUMP BRUSHES.'.

**14.08.1991** Service defect: 'A - 9KG FIRE EXT DRY POWDER 'A'END REQ'D.14/8.'.

**15.08.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO 1 T/MOTOR REPLACED,A/C FLATS.IN-81K1-1J50.OUT-1M1-1157.'.

**24.09.1991** Service defect: 'TS - AUXILLARY MACHINES - BOTTOM STARTER MOTOR CHANGED A/C COMMUTATOR BADLY BURNT.'.

**24.09.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO.6 T/M CHANGED A/C GROUND RELAYS & FLATS.'.

**10.10.1991** Service defect: 'UN - BOGIE - TRI-MOUNT RUBBERS REPAIRED.'.

**21.10.1991** Service defect: 'UN - GENERAL - DRIVERS BLIND REPLACED,CHECKED OK IN DEPOT.'.

**03.12.1991** Service defect: 'C - GENERAL - VIC MODS COMPLETED.'.

**07.12.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - 9 BRUSHES CHANGED IN NO 3 T/MOTOR,A/C FRAYED PIGTAILS & 2 BLOWN OFF.ALT CHECKED OK.'.

**17.12.1991** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR TRANSCEIVER CHANGED,A/C DEFECTIVE,TESTED OK.'.

**17.12.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - RA 103 MODULE REPLACED,A/C BURNT DIODE.'.

**10.03.1992** Service defect: 'A - BATTERY MAINTENANCE - 'B'END BATTERY CHARGE AMMETER REPLACED OK.'.

**10.03.1992** Service defect: 'A - ENGINE - NOS4,9,12,AND 16.TEST COCK SEALS REPLACED OK.'.

**10.03.1992** Service defect: 'A - PEE PIPE - 10 AND 9 P/PIPES REPLACED OK.'.

**07.04.1992** Service defect: 'SW - BOGIE - TRIMOUNTS CHECKED OK IN DEPOT.'.

**07.04.1992** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS UNBLOCKED.'.

**24.04.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO JOINT REPLACED,A/C CRACKED.'.

**27.04.1992** Service defect: 'SW - BOGIE MAINTENANCE - SPRINGS - R5 BOGIE SPRING CHANGED A/C BROKEN'.

**04.05.1992** Service defect: 'TS - COOLING SYSTEM WATER PUMP - RIGHT HAND WATER PUMP CHANGED.OK.'.

**04.05.1992** Service defect: 'TS - FUEL SYSTEM INJECTORS - NO.1.INJECTOR NOT SEATED,CHANGED.OK.'.

**27.05.1992** Service defect: 'UN - GENERAL - AIR FRIDGE 'A' END REPLACED.'.

**29.05.1992** Service defect: 'UN - GENERAL - WINDOW REPLACED IN D/SIDE DOOR 'A' END,A/C BROKEN.'.

**05.06.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NO 14 CYLINDER HEAD REPLACED,A/C WATER LEAK,FAULTY GASKET.'.

**05.06.1992** Service defect: 'B - LUBRICATING SYSTEM - SOAK BACK PIPE OIL LEAK REPAIRED.'.

**05.06.1992** Service defect: 'B - TRACTION MOTOR - 2 BRUSH HOLDERS IN NO 3 T/MOTOR CHANGED,A/C BOTTOM HOLDER WONT SLIDE FREELY, 3 O'CLOCK HOLDER WORN HAMMER.'.

**05.06.1992** Service defect: 'B - AIR DRYER TO REPLACE,A/C NIL STOCK 5/6.'.

**23.06.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT CABLES REPAIRED AND TIED UP.'.

**23.06.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - TWO BRUSH HOLDERS CHANGED ON NO. 6 T/M. ONE BRUSH HOLDER CHANGED ON NO.2 T/M.'.

**27.07.1992** Service defect: 'SW - BOGIE - 'A'END TRI-MOUNT PADS REPLACED.'.

**18.08.1992** Service defect: 'CA - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY OPERATED. PIG TAILS FOUND HANGING. NO SPECIFIC T/MS GIVEN.'.

**20.08.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO SCREEN REPLACED A/C BLOCKED.'.

**28.08.1992** Service defect: 'A - AUXILLARY MACHINES - INERTIAL AIR FILTER BLOWER MOTOR CHANGED.'.

**28.08.1992** Service defect: 'A - 'B' END PACKAGE AND POCKET TO MONITOR.28/8/92'.

**19.10.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 5 HEAD CHANGE COMPLETED, A/C BLOWN.'.

**19.10.1992** Service defect: 'UN - FIX PAD BOLTS TO CAB DOORS,(NOT D/S) 'A'END. REF B'.

**19.10.1992** Service defect: 'UN - MCDONALD.19/10.'.

**07.11.1992** Service defect: 'TS - ALTERNATOR - ALT CHECKED OK. P=+5 OHMS.'.

**07.11.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 1 BRUSH CHANGED IN NO 5 T/M,A/C PULLED PIGTAILS. 3 BRUSHES CHANGED IN NO 2 T/M, A/C FRAYED PIGTAILS. BRUSHES REPLACED'.

**12.11.1992** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - NO 3 T/MOTOR REPLACED, A/C GR'S. T/M IN- 81G1-1167. T/M OUT-81M1-1214.'.

**13.11.1992** Service defect: 'UN - TRACTION MOTOR EARTH - NO 3 T/MOTOR REPLACED, A/C ARMATURE TO EARTH. T/M IN-60F-47.OUT-81G1-1167.'.

**24.11.1992** Service defect: 'D - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR INLINE STRAINER CLEANED & TESTED OK.'.

**30.12.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET CHANGED OK, A/C LATERAL CLEARANCE ON NO 5 CHECKED OK, A/C BAD FLAT & HOLE.'.

**08.02.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L4 WICK & OIL CHANGED.'.

**08.02.1993** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - DYN/BRAKE TRANSFER SWITCH REPLACED.'.

**08.02.1993** Service defect: 'A - ENGINE - ALL 4 BOLTS ON HEAT EXCHANGER TOWER TIGHTENED, A/C LOOSE.'.

**08.02.1993** Service defect: 'A - EXHAUST - EXHAUST EXPANSION GASKET CHANGED, A/C LEAKING.'.

**18.02.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - MOTORING/BRAKING SWITCH REPAIRED, A/C MELTED CONTACTOR.'.

**22.02.1993** Service defect: 'UN - GENERAL - BODY STEAMED CLEANED A/C COVERED WITH OIL 'A' END'.

**22.02.1993** Service defect: 'UN - OTHER BODY REPAIRS - NEW STYLE 'BREMSHEY' SEATS FITTED TO 'A' END AS PER AFULE INSTRUCTIONS'.

**02.04.1993** Service defect: 'UN - VIG BUTTONS TO RELOCATE AS PER OTHER BL'S OR MOVE'.
**02.04.1993** Service defect: 'UN - SEAT FOWARD.2/4.'.
**28.04.1993** Service defect: 'UN - BOGIE - 'A' & 'B' END TRI-MOUNT RESILIENT PADS REPLACED, A/C SPLIT. 'B'END BOLSTER SHOCK ABSORBER REPLACED, A/C LEAKING.'.
**26.05.1993** Service defect: 'B - BOGIE - 'B'END TRIMOUNT SHOCK ABSORBER REPLACED.'.
**26.05.1993** Service defect: 'B - COOLING SYSTEM WATER PUMP - OBS/SIDE WATER PUMP & MARMON COUPLING RUBBERS REPLACED,A/C WATER LEAKS.'.
**26.05.1993** Service defect: 'B - ENGINE GOVERNOR MECHANICAL - GOV LAYSHAFT REPAIRED.'.
**26.05.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED.'.
**26.05.1993** Service defect: 'B - OTHER BODY REPAIRS - 'A'END WINDOWS REPLACED.'.
**26.05.1993** Service defect: 'B - VIGILANCE - VIG CONTROL BUTTONS RELOCATED.'.
**07.06.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - TEMPORARY GOVERNOR PLUG REPAIRS EFFECTED. PIN WIRE I RELOCATED INTO PIN J ON BOTH PLUG & RECEPTACLE,A/C SHORT'.
**25.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GAUGE LIGHTS REPAIRED.'.
**25.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO 7 TEST COCK ASSY REPLACED.'.
**25.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - 'A'END HORNS CHANGED.'.
**25.06.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO 1 RADIATOR FAN CHANGED,A/C BEARINGS U/S.'.
**25.06.1993** Service defect: 'UN - 'A'END OBS/SIDE DOOR SEAL TO BE REPLACED NEXT'.
**25.06.1993** Service defect: 'UN - SERVICE,A/C LEAKING.25/6.'.
**13.07.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - 2 MICRO SWITCHES REPLACED IN 'A'END CONTROLLER.'.
**26.07.1993** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - GAUGE LIGHT RHEOSTAT REPLACED, A/C NO 'B'END GAUGE LIGHTS.'.
**26.07.1993** Service defect: 'SW - ENGINE WATER LEAK - ENGINE PROTECTION REPLACED, A/C WATER LEAK. TESTED OK.'.
**26.07.1993** Service defect: 'SW - EXHAUST - EXHAUST GASKETS REPLACED. TESTED OK.'.
**29.07.1993** Service defect: 'A - BOGIE - NO 2 NOSE SUSPENSION REPLACED AND PAD WELDED BACK TO T/MOTOR'.
**29.07.1993** Service defect: 'A - LUBRICATING SYSTEM - MARMON RUBBERS REPLACED ON STRAINER SUPPLY.'O'RING AND GASKET REPLACED ON LEFT SIDE OF OIL COOLER.'.
**29.07.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**29.07.1993** Service defect: 'A - 'V'RING NO 1 ARMATURE TO MONITURE.29/7.'.
**04.08.1993** Service defect: 'SW - EXHAUST - EXHAUST LEAK REPAIRS COMPLETED.'.
**03.09.1993** Service defect: 'UN - DYNAMIC BRAKE - SWAPPED 'B'END DYN/BRAKE POT - REMOVED FOR 'A'END, A/C 'A' END POT U/S BECAUSE IT WAS INCORRECTLY WIRED. CIRCUIT'.
**03.09.1993** Service defect: 'UN - ENGINE - TOP DECK COVER SEALS REPLACED.'.
**08.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - CONTROL VALVE, SERVICE PORTION CHANGED, FAULT RECTIFIED.'.
**08.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END AUTO COUPLER KNUCKLE REPLACED, A/C WORN TO CONDEMNINGLIMIT.'.
**13.10.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR TRANSCEIVER CHANGED AT Q/FIX BUT TO NO AVAIL. A RADARUNIT WAS TAKEN FROM DL46 AND WORKED OK.'.
**13.10.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - RA MODULE ALSO CHANGED A/C DROPPING POWER.'.
**14.10.1993** Service defect: 'C - BOGIE - L2 SLACK ADJUSTER REPLACED A/C SEIZED.'.
**14.10.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L1,2 AND R1,2,3 WICKS REPLACED.'.
**14.10.1993** Service defect: 'C - ENGINE - ENGINE BLOCK CRACK WELDED.'.
**14.10.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE LEAK REPAIRED.'.
**14.10.1993** Service defect: 'C - TRACTION MOTOR - NO.1 T/M VEE RING TO MONITOR.'.
**14.10.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - 12 O'CLOCK BRUSH HOLDER CHANGED A/C LOOSE HAMMERS. 56 BRUSHES CHANGED A/C CONDEMNING LIMIT.'.
**01.11.1993** Service defect: 'TS - NO FAULT FOUND - LOCO CHECKED, A/C DROPPING LOAD, NO FAULT FOUND. LOCO SENT ON TRIAL RUN. LOCO OK.'.
**01.11.1993** Service defect: 'TS - ''.
**20.11.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 1 WHEELSET SWAP. WHEELSET REMOVED, REPLACEMENT INSTALLED LATERALS CHECKED OK. OILS AND CRATER CHECK OK.'.
**24.11.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE POT REPLACED 'B'END.'.
**12.12.1993** Service defect: 'TW - ELECTRICAL MISC. GROUND RELAY - 6 BRUSHES CHANGED IN NO.3 T/M A/C TOO SHORT. ALL OTHER MOTORS OK./'.
**16.12.1993** Service defect: 'UN - BLOCKED FILTERS - MICHIANA FILTERS CHANGED A/C DIRTY.'.
**16.12.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - 'A'END LOAD METER CHANGED, A/C NOT READING TRUE.'.
**24.12.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - ALL BRUSHES REPLACED IN NO 4 TM A/C SHORT OR FRAYED PIGTAILSNO 6 TM BRUSHES REPLACED,REST OF TM'S CHECKED OK.'.
**24.12.1993** Service defect: 'TW - NO 4 TM TO MONITOR FOR FLATS'.
**29.12.1993** Service defect: 'SW - FUEL SYSTEM - FUEL SIGHT GLASS GASKETS CHANGED BOTH SIDES AND GLASSES WERECLEANED.'.
**30.12.1993** Service defect: 'A - ENGINE - TOP DECK SEALS REPLACED A/C LEAKING OIL BADLY.'.

**30.12.1993** Service defect: 'A - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW REPAIRED.'.
**30.12.1993** Service defect: 'A - RADIATORS TO BE CLEANED OF DEBRIS,'.
**13.01.1994** Service defect: 'UN - AIR CONDITIONING - AIR-COND. REPAIRED.'.
**28.01.1994** Service defect: 'UN - BOGIE - BOGIES CHANGED. 'A'END BOGIE- B 7659. 'B'END BOGIE- B 7655.'.
**28.01.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE, YOKE & FOLLOWER BLOCK REPLACED. 'D'POCKET REWORKED, A/C EXCESSIVE MOVEMENT & WEAR.'.
**02.02.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 2 T/M REPLACED, A/C GR'S. T/M IN- 81L1-1206. T/M OUT-67CC154.'.
**02.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END BRAKE CYLINDER CUT OUT, COCK BRACKET REPAIRED.'.
**12.02.1994** Service defect: 'UN - TRACTION MOTOR - NO.2 T/M CHANGED A/C EARTH.'.
**22.02.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 5 T/MOTOR REPLACED, A/C GR'S. T/M IN-70-D1-1205. T/M OUT81E1-1243. ALL T/M'S CHECKED OK, NO 5 MEGGERED OK.'.
**07.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED AND SANDER VALVE REPLACED. ALL SANDERS CHECKED AND CLEARED ACCORDINGLY.'.
**11.03.1994** Service defect: 'SW - BOGIE - 'A'END BOLSTER SHOCKERS FOUND UPSIDE DOWN. SHOCKERS PLACED CORRECT WAY.'.
**14.03.1994** Service defect: 'B - ENGINE WATER LEAK - ENGINE CHECKED FOR WATER LEAK, NO LEAKS FOUND.'.
**14.03.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - THE 3 TOP BRUSH HOLDERS REPLACED IN NO.6 T/M.'.
**14.03.1994** Service defect: 'B - VIGILANCE - VIGILANCE RUN THROUGH - DROPPING PCS BUT BRAKE PIPE STILL BEING FED AIR.'.
**06.04.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DIODE CR8A REPLACED IN WARNING LIGHT CCT, A/C SHORTED.'.
**17.05.1994** Service defect: 'UN - BOGIE - 4 TRIMOUNT RUBBERS REPLACED, A/C TORN. SLIPPERS CHANGED.'.
**17.05.1994** Service defect: 'UN - GENERAL - FRIDGE SECURED.'.
**06.06.1994** Service defect: 'A - FUEL SYSTEM INJECTORS - NO 14 INJECTOR REPLACED, LEAKING AIR NOT SEATING PROPERLY.'.
**06.06.1994** Service defect: 'A - LUBRICATING SYSTEM - ROCKER SHAFT OIL FEED PIPE REPLACED, A/C STRIPPED.'.
**06.06.1994** Service defect: 'A - NO FAULT FOUND - HOT PLATE NOT GETTING HOT ENOUGH, CHECKED BOTH ELEMENTS WORKING OK.'.
**06.06.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED. 2 BRUSHES REPLACED ON SLIP RINGS.'.
**06.06.1994** Service defect: 'A - NO 2 T/M TO MONITOR, A/C SMALL FLATS. 6/6.'.
**15.06.1994** Service defect: 'SW - BOGIE - LATERALS CHECKED AND ADJUSTED, BOGIE CENTRES CHECKED OK, ALLSHOCK ABSORBERS CORRECT TYPE AND FITTED CORRECT WAY UP. ALL'.
**15.06.1994** Service defect: 'SW - FUEL SYSTEM - FUEL TANK BOLTS TIGHT.'.
**15.06.1994** Service defect: 'SW - OTHER BODY REPAIRS - D/S STEP REPAIRED.'.
**15.06.1994** Service defect: 'SW - TRACTION MOTOR - TRACTION MOTORS' THRUST CLEARANCE CHECKED OK.'.
**24.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**24.06.1994** Service defect: 'UN - OTHER BODY REPAIRS - SLIDING WINDOW CONCERTINA REPAIRED. ALL WINDSCREEN RIVETS & WINDSCREEN FRAME TO BODY SEALED EXTERNALLY.'.
**29.06.1994** Service defect: 'UN - ENGINE ROOM - ENGINE ROOM WASHED, OIL LEAK.'.
**29.06.1994** Service defect: 'UN - LUBRICATING SYSTEM - HOT OIL GASKET CHANGED, A/C LEAKING.'.

### BL 28

Details: locomotive 'BL 28 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 26.09.1983
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 27.03.1997 | | |
| Last Lift: | 28.03.1990 | | |
| SW Service Mileage: | 1226048 KM | SW Service Date: | 30.11.1996 |
| A Service Mileage: | 1300115 KM | A Service Date: | 27.03.1997 |
| B Service Mileage: | 1237390 KM | B Service Date: | 19.12.1996 |
| C Service Mileage: | 1127827 KM | C Service Date: | 12.06.1996 |
| D Service Mileage: | 943272 KM | D Service Date: | 27.06.1995 |
| E Service Mileage: | 572462 KM | A Service Date: | 31.07.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 28.03.1990 |
| WT Service Mileage: | 592415 KM | WT Service Date: | 21.09.1993 |
| US Service Mileage: | 1289977 KM | A Service Date: | 11.03.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**08.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(2,3,5&6),1&4 OK.'.
**13.07.1989** Service defect: 'UN - BROKEN PIPE - COPPER PIPE BROKEN - PIPE FROM OIL/COOLER TO HOUSING REPL'D. - (PIPE BROKEN ON O/SIDE HOUSING)'.
**23.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**04.09.1989** Service defect: 'UN - BOGIE - LUBE CHECK - NO.1,2,4(3BAGS)& NO.3,5,6(4BAGS) OF CRATER ADDED TO EACH GEAR CASE.'.
**04.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO CHECKED OK,A/C STICKING AT 80KPH.'.
**02.10.1989** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC FAULT - 'A'END MICRO-SWITCH REPLACED.'.
**02.10.1989** Service defect: 'SW - LUBRICATING SYSTEM - HIGH VISCOSITY - ENG/OIL & ALL OIL FILTERS CHANGED.'.
**05.10.1989** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - HIGH PRESSURE SWITCH RE-SET. - OPERATION CHECKED OK.'.
**31.10.1989** Service defect: 'D - AIR CONDITIONING - A/COND CHECKED OK.'.
**23.12.1989** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - AIR/COND.UNIT RE-GASSED,OPERATION CHECKED OK. (LOW ON GAS)'.
**23.12.1989** Service defect: 'UN - NO FAULT FOUND - LOW POWER FAULT - LOCO TESTED,PULLED 1000 AMPS. CHECKED OK.'.
**04.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1&4),7 BAGS(5&6),10 BAGS(2&3).'.
**04.01.1990** Service defect: 'TW - OTHER BODY REPAIRS - WINDOW REPAIR - 'A'END O/SIDE WINDOW CONCERTINA RE-CONNECTED'.
**28.03.1990** Service defect: 'F - ELECTRICAL MISCELLANEOUS - VIGILANCE BUTTON AND COUPLING LIGHT MODS COMPLETED. DYNAVANEHATCH AND BATTERY BOX MODIFIED. DUMMY M.U. RECEPTICALES FIT-'.
**28.03.1990** Service defect: 'F - ENGINE - ENGINE EX BL 31 SERIAL NO 82 B1-1050 FITTED INTO BL 28. NEW MAIN, BIG END, CAMSHAFT AND CARRIER BEARINGS FITTED.'.
**28.03.1990** Service defect: 'F - ENGINE - RECONDITIONED VALVE BRIDGES.16 NEW LINERS, PISTONS AND HEADSINSTALLED. NO 2 PRESSURISING FAN REMOVED. TOP DECK MACHINED.'.
**28.03.1990** Service defect: 'F - ENGINE - TED. MECHANICALLY BONDED RADIATORS AND WINDOW WASHERS INSTALLED.'.
**28.03.1990** Service defect: 'F - ENGINE - WATER PUMPS O/HAULED. BOTH OIL PUMPS O/HAULED (LUBE PUMP MODIFIED). NEW ROCKER ASSEMBLY BEARINGS & CRAB PLATES FITTED'.
**30.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MAGNET VALVE REPLACED'.
**06.04.1990** Service defect: 'SW - TRACTION MOTOR - T/MOTOR - RE-GRIND COMPLETED. - NO.2 T/MOTOR CHANGED A/C WORN DRIVE GEAR.'.
**12.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**12.04.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - MANUAL POWER CONTROL - UNIT CHECKED & TESTED OK.'.
**18.04.1990** Service defect: 'WT - BRAKES TO ADJUST'.
**19.04.1990** Service defect: 'UN - BOGIE - BRAKES ADJUSTED.'.
**18.05.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&3),5 BAGS(4,5&6).'.
**18.05.1990** Service defect: 'SW - RADIO REPAIR - RADIO MOD.- COMPLETED.'.
**28.05.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - MODULE CHECK - ALL MODULES REMOVED & CLEANED UP A/C CARBON BUILD UP. TRACK TESTED TO TENT HILL WITH AL18 OK.'.
**01.06.1990** Service defect: 'TW - BOGIE - LUBE CHECK -'.
**12.06.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.
**26.06.1990** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - C/BREAKER TRIPPING - FILTER BLOWER MOTOR PLUG CONNECTION - RE-SOLDERED A/C OPEN CIRCUIT.'.
**29.06.1990** Service defect: 'UN - OTHER BODY REPAIRS - CABINET DOOR - MODULE CABINET DOOR 'A'END REPAIRED/REPLACED.'.
**06.07.1990** Service defect: 'TW - BOGIE - LUBE INSPECTION - 4 BAGS ADDED TO EACH CASE.'.
**06.07.1990** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - MARKER LIGHT - WIRING TO LIGHT FITTING REPAIRED.'.
**24.07.1990** Service defect: 'UN - GENERAL ACCIDENT - LOCO INSPECTED FOR DERAILMENT DAMAGE.OK.'.
**25.07.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - FILTER BLOWER MOTOR CHANGED/OUT.'.
**31.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**21.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**04.11.1990** Service defect: 'UN - BOGIE - BROKEN PUSH/ROD - R.2 BRK/CYLINDER REPLACED. - (BRK/CYLINDER SENT FROM ADELAIDE)'.
**04.11.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**15.11.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 2 BAGS(1-4),5 BAGS(5&6).'.
**15.11.1990** Service defect: 'SW - OTHER BODY REPAIRS - CRACKED WINDOW - 'B'END O/SIDE WINDOW/SCREEN INSTALLED.'.
**15.11.1990** Service defect: 'SW - RADIO REPAIR - AUSTRAC FAULT - NEW UNIT INSTALLED.'.
**19.11.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 4 BAGS(5,6&7),5 BAGS(2),6 BAGS(1&2).'.
**03.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**10.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**19.12.1990** Service defect: 'UN - AMMETTER CHANGE 'A'END + RE20B RESISTOR SUSPECT.'.
**19.12.1990** Service defect: 'UN - (19/12)'.
**29.01.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - AIR LEAK REPAIRED A/C NO QUICK RELEASE FROM 'B' END.'.
**29.01.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN WINDSCREEN REPLACED'.
**07.02.1991** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BRAKE GRID CHANGED A/C HOT LUG'.
**07.02.1991** Service defect: 'TS - TRACTION MOTOR LOOSE PINION - NO2 TM CHANGED A/C SLIPPED PINION 81M1-1027IN/81E1-1241OUT'.
**07.02.1991** Service defect: 'TS - WICK CHECK AT PORT AUGUSTA.'.
**08.02.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY - NO2 TRACTION

MOTOR CLEANED UP A/C FLASHOVER.'.
**06.03.1991** Service defect: 'TS - BOGIE - AXLE BOX BEARING FAILURE - NO. 2 WHEEL SET REPLACED. (FAILED TRN.NO4280 KULTANABY)'.
**15.03.1991** Service defect: 'UN - VIGILANCE - VIGILANCE FLASHER REPAIRED,A/C BROKEN.'.
**22.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - SPEEDO REGULATOR REPLACED,TESTED OK. - (CUTTING/OUT AT 65KMH.)'.
**22.03.1991** Service defect: 'UN - 'A'END D/SIDE TRIP/LEVER TO REPLACE. (22/3)'.
**22.03.1991** Service defect: 'UN - NIL SPARES AVAILABLE P.G.DEPOT.'.
**10.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FLUCTUATING - COLLECTOR CLEANED/UP,TESTED OK.'.
**21.06.1991** Service defect: 'A - BOGIE MAINTENANCE - BOLSTERS - RHS 'B'BOGIE BOLSTER WEARPLATE REPLACED.'.
**21.06.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - NO1 T/M ALL BRUSHES CHANGED,NO2,ALL BRUSHES,NO3 3BRUSHES,NO4ALL BRUSHES,NO5,1 BRUSH,NO6 ALL BRUSHES.'.
**21.06.1991** Service defect: 'A - TRACTION MOTOR FLASHOVER - NO 2 T/M FLASHED,CLEANED & BRUSHES REPLACED.'.
**21.06.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - LHS RADIATOR REPLACED,A/C WATER LEAK.'.
**12.08.1991** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR SECTION REPLACED, A/C LEAKS.'.
**12.08.1991** Service defect: 'TS - LUBRICATING SYSTEM - OIL FLANGE COUPLINGS TIGHTENED.'.
**22.08.1991** Service defect: 'D - ELECTRICAL MISCELLANEOUS - SPEEDO TRANSMITTER - COVER REPLACED,A/C MISSING.CONNECTION PLATE REPLACED,A/C CARRODED.'.
**02.10.1991** Service defect: 'UN - BOGIE - PLACED ON TEMPORARY BOGIESFOR TRANSPORT TO PT.AUGUSTA.'.
**03.10.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - WHEEL SET CHANGED.'.
**03.10.1991** Service defect: 'A - TRACTION MOTOR - T/M. CHANGED.'.
**03.10.1991** Service defect: 'A - SENT TO PT.AUGUSTA.'.
**19.11.1991** Service defect: 'SW - OTHER BODY REPAIRS - V/LINE MODS.- COMPLETED.'.
**22.11.1991** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.DIRECTION TEST OK.'.
**25.11.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK OK.'.
**25.11.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - T/MOTORS CHECKED OK.'.
**25.11.1991** Service defect: 'UN - D/B WEAK,TO MONITOR.25/11.'.
**27.11.1991** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK INSPECTION COMPLETED.'.
**27.11.1991** Service defect: 'SW - GENERAL - VARIOUS CAB REPAIRS COMPLETED.'.
**28.11.1991** Service defect: 'SW - GENERAL - WINDSCREEN (OBS SIDE) 'A'END REPLACED.'.
**28.11.1991** Service defect: 'SW - NO 4 T/MOTOR U/S.'.
**10.12.1991** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - NO 4 T/MOTOR CHANGED OUT,A/C GR'S.IN - 81-MI-1122,OUT- 89-J3-NO1.T/MOTOR CUT BACK IN.'.
**13.12.1991** Service defect: 'UN - BOGIE - 1,2 & 3 BOTTOM HALF OF GEARCASES REMOVED & INSPECTED OK,A/C GRINDING NOISE.'.
**13.12.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO 2 & 3 WICKS EXAMINED OK,A/C GRINDING NOISE.'.
**16.12.1991** Service defect: 'UN - GENERAL - ISSUED AFTER FATALITY INQUEST.'.
**08.01.1992** Service defect: 'SW - OTHER BODY REPAIRS - V/LINE CAB MODS. COMPLETED.'.
**17.01.1992** Service defect: 'UN - GENERAL - VIC MODS COMPLETED.'.
**24.01.1992** Service defect: 'TS - TRACTION MOTOR - NO 6 T/MOTOR REPLACED,A/C INTERPOLES TO EARTH.'.
**27.02.1992** Service defect: 'UN - GENERAL - TOILET WASH.WHISTLE CORD REPLACED.'.
**27.02.1992** Service defect: 'UN - TRACTION MOTOR - NO6 T/MOTOR REPLACED A/C GROUND RELAYS.'.
**16.03.1992** Service defect: 'B - MECHANICAL EQUIPMENT - WINDOW WASHER KNOB REPOSITIONED-A/C TOO CLOSE TO AUTO BRAKE HANDLE.'.
**20.03.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - SAFETY CONTROL PRESS. SWITCH RESET TO 300 KPA.'.
**20.03.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO.1 RADIATOR FAN AND FEMALE RECEPTACLE REPLACED.A/C BURNT OUT.'.
**22.05.1992** Service defect: 'UN - TRACTION MOTOR - NO 3 T/MOTOR REPLACED,A/C BADLY BURNT COMMUTATOR PINION END & MAIN BELL (HOUSING) BOLTS ALL FOUND VERY LOOSE.BEARINGS'.
**09.06.1992** Service defect: 'A - EXHAUST - EXHAUST BRACKET WELDED'.
**09.06.1992** Service defect: 'A - GENERAL - MIRROR REPLACED.'.
**15.06.1992** Service defect: 'FA - ALTERNATOR - BOXED UP ALTERNATOR,DIRECTION TESTED &POWERED UP O.K.'.
**22.06.1992** Service defect: 'UN - TRACTION MOTOR - NO.3 T/M REPLACED.'.
**10.07.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HOT PLATE SWITCH REWIRED.A/C U/S.QUICK FIX.'.
**31.08.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - 18 BRUSHES CHANGED A/C AT CONDEMNING LIMIT.'.
**31.08.1992** Service defect: 'C - AIR/COND. COIL TO CHANGE A/C U/S NIL IN STOCK.'.
**31.08.1992** Service defect: 'C - 31/8/1992'.
**04.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - HIGH PRESSURE COMPRESSOR HEAD GASKET REPLACED.'.
**02.11.1992** Service defect: 'UN - DYNAMIC BRAKE - GR'S IN DYN/BRAKE. TRIAL RUN TO GAWLER, NO FAULT FOUND. GRIDS, FAN MOTOR & ASSOCIATED CIRCUITS CHECKED OK.'.
**21.11.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CUT OUT.'.
**21.11.1992** Service defect: 'UN - ELECTRICAL MISC.

GROUND RELAY - D/BRAKE FAN MOTORS MEGGERED OK. GR CIRCUIT RESISTORS & CONNECTIONS OK. ALL T/MOTORS FIELDS & ARMATURES MEGGERED OK.'.

**23.11.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GR'S IN D/BRAKE - T/MOTORS INSPECTED + MEGGERED OK. D/BRAKE GRIDS INDIVIDUALLY MEGGERED.'.

**23.11.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - D.P. MODULE REPLACED, A/C U/S.'.

**02.12.1992** Service defect: 'A - BOGIE - ALL TRI-MOUNT RUBBERS REPLACED. TWO TRI-MOUNT WEAR PLATES REPLACED. 1 SHOCK REPLACED.'.

**02.12.1992** Service defect: 'UN - DYNAMIC BRAKE - RE6 RESISTOR CHANGED, A/C GROUND RELAYS IN D/BRAKE.'.

**14.12.1992** Service defect: 'SW - DYNAMIC BRAKE - DYN/BRAKE GRIDS INSTALLED EX BL 26. CONNECTION ON D/B GRID CORRECTLY PUT IN POSITION, A/C W/SLIP & LOCK UP LIGHT'.

**23.12.1992** Service defect: 'SW - VIBRATIONS DUE TO INERTIAL AIR FILTER BLOWER MOTOR'.

**23.12.1992** Service defect: 'SW - 3 PHASE CONNECTING PLUG DISCONNECTED, MOTOR TO'.

**23.12.1992** Service defect: 'SW - REPLACE ASAP.23/12.'.

**10.01.1993** Service defect: 'UN - BOGIE - L2,R2.SLACK ADJUSTERS REPLACED.'.

**10.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - INERTIOR FILTER BLOWER MOTOR REMOVED A/C BEARING U.S.ALSO IMPELLAR CRACKED REQIRED WELDING AND BALANCING.'.

**05.02.1993** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO 5 T/MOTOR REPLACED,A/C PREVIOUS ONE CONNECTED WRONG WAY, COM FOUND VERY BLACK & INSULATION BURNT IN MOTOR.'.

**16.02.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CONTROL FUSE REPLACED IN AIR CON CONTACTOR BOX, A/C BLOWN.'.

**16.02.1993** Service defect: 'UN - GENERAL - BREMSHEY SEATS FITTED TO 'A'END CAB.'.

**16.02.1993** Service defect: 'UN - GENERAL - MIRROR REPAIRED F/SIDE 'A'END.'.

**24.02.1993** Service defect: 'B - ALTERNATOR - FLATS - ALT SLIP RINGS MACHINED.'.

**24.02.1993** Service defect: 'B - BOGIE - SIEZED SLACK ADJUSTERS - REPLACED.'.

**24.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'B' END PACKAGE REPLACED A/C LOOSE. POCKET CHECKED OK. THROAT PLATE REPLACED.'.

**24.02.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - BRUSH HOLDERS REPLACED (2NO) A/C LOOSE HAMMERS IN NO6 T/M.'.

**22.03.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - L1 WHEEL GROUND OUT, A/C FLATS.'.

**22.03.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - 'A' & 'B' END AUTO BRAKE VALVES SWAPPED, A/C NIL IN STOCK.'.

**28.04.1993** Service defect: 'UN - TRACTION MOTOR - NO 5 T/MOTOR REPLACED,A/C BRUSH HOLDER CABLE LUG BOLT LOOSE & MELTED. T/M OUT- 81M1-1214.'.

**03.05.1993** Service defect: 'UN - AIR CON NOT WORKING,REPS REQ'D.3/5.'.

**24.05.1993** Service defect: 'A - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR RHEOSTAT REPLACED,A/C BURNT SECTION.'.

**24.05.1993** Service defect: 'A - ENGINE GOVERNOR ELECTRICAL - GOVERNOR REPLACED,A/C ORS SOLENOID/VALVE STICKY.'.

**24.05.1993** Service defect: 'A - PEE PIPE - NO 10 & 16 'P'PIPES CHANGED,A/C BROKEN.'.

**27.05.1993** Service defect: 'UN - AIR CONDITIONING - AIR/COND COMPRESSOR UNIT REPLACED.'.

**27.05.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT CHANGED,A/C DROPPING AMPS.'.

**31.05.1993** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONING CONDUIT REPAIRED.'.

**18.06.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.

**18.06.1993** Service defect: 'SW - GENERAL - BLINDS FITTED. BREMSHEY SEATS FITTED.'.

**18.06.1993** Service defect: 'SW - OTHER BODY REPAIRS - WINDOW MODS COMPLETED.'.

**31.07.1993** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO EXHAUST DUCT WELDED, A/C CRACKED.'.

**31.07.1993** Service defect: 'E - RADIATOR/PRESSURISING FAN - NO 2 RAD FAN REPLACED, A/C U/S - EARTH.'.

**31.07.1993** Service defect: 'E - TRACTION MOTOR BRUSHES - 3 TEST BRUSHES (E6275A) REPLACED IN NO 1 T/M, A/C TOO SHORT.9 TEST BRUSHES REPLACED IN NO 5 & 3 REPLACED IN NO 6 T/M.'.

**05.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE REPLACED. 'A'END BOLTS TIGHTENED.'.

**27.08.1993** Service defect: 'TS - DYNAMIC BRAKE - DYN/BRAKE RHEOSTAT REPLACED.'.

**27.08.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRING LOOMS REPAIRED, A/C BURNT. WIRING (TRAINLINE) TESTED OK.'.

**27.08.1993** Service defect: 'TS - EXHAUST - EXHAUST BELLOWS INSTALLED & TIGHTENED.'.

**27.08.1993** Service defect: 'TS - LUBRICATING SYSTEM - NEW OIL COOLER SEAL FITTED. WATER PUMP TO OIL COOLER GASKETSFITTED.'.

**08.09.1993** Service defect: 'UN - DYNAMIC BRAKE - 'A'END D/B MOD COMPLETED. D/B CIRCUIT BREAKER FITTED 'B'END.'.

**08.09.1993** Service defect: 'UN - TRACTION MOTOR LOOSE PINION - NO 6 T/MOTOR REPLACED, A/C PINION GEAR LOOSE. DIRECTION TESTED OK.'.

**15.09.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - NO 6 T/MOTOR MIDDLE BRUSH HOLDER 'B'END SIDE REPLACED, A/C BROKEN HAMMER CAUSING GR'S.'.

**21.09.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - 'A'END T/M BRUSHES CHANGED, A/C BRUSHES SHORT.'.

**13.10.1993** Service defect: 'UN - AIR CONDITIONING - AIR CON. REPAIRED A/C NOT COOLING. R.W. CLARKE.'.

**25.10.1993** Service defect: 'A - BOGIE - L2 SLACK ADJUSTER REPLACED. 'B'END CARRIER PLATE BOLTS REPLACED. HORNSTAY BOLTS TIGHTENED. NO 4 GEARCASE BOLTS'.

**25.10.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R4 SAND HOSE REPLACED.'.

**01.12.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION

COMPLETED.'.

**01.12.1993** Service defect: 'UN - GENERAL - LOCO SENT ON TRIAL RUN, A/C SUPER SERIES FAILURE & NO 6 T/M CHECK. TRIAL RUN CHECK OK.'.

**07.01.1994** Service defect: 'UN - BLOCKED FILTERS - FUEL FILTERS REPLACED, A/C BLOCKED.'.

**07.01.1994** Service defect: 'UN - GENERAL - 'A'END OBSERVERS WIPER REPAIRED. 'A'END WASHER REPAIRED.'.

**07.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE FAULT COULD NOT BE FOUND. CHECKED OK.'.

**18.01.1994** Service defect: 'B - BOGIE - 'B'END PACKAGE AND COUPLER CHANGED.'.

**18.01.1994** Service defect: 'B - CAM SHAFT - 9-12 CAMSHAFT REPLACED, A/C FLAT NO.12 INJECTOR LOBE.'.

**18.01.1994** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - WIRE 6G65 ON EQP FOUND OFF. RE-SECURED TO NO.1 BOARD.'.

**18.01.1994** Service defect: 'B - INSULATION WORN - DYNAMIC BRAKE CABLE INSULATED AND SECURED.'.

**14.02.1994** Service defect: 'UN - AIR CONDITIONING - AIR COND. REPAIRED. COIL CHANGED.'.

**12.04.1994** Service defect: 'A - BOGIE - NO 3 GEAR CASE TIGHTENED. L2 AND R2 LATERAL RUBBERS REPLACED'.

**12.04.1994** Service defect: 'A - GENERAL - OBS/SIDE BLIND REPAIRED.'.

**12.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER HEIGHT RAISED 10MM.'.

**12.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L1 SANDER REPAIRED.'.

**12.04.1994** Service defect: 'A - INERTIAL FILTER BLOWER MOTOR TO INSTALL.12/4.'.

**04.05.1994** Service defect: 'UN - ALTERNATOR - ALTERNATOR CHECKED OK.'.

**04.05.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY SYSTEM CHECKED OK, LOCO RELEASED TO TRAFFIC.'.

**04.05.1994** Service defect: 'UN - TRACTION MOTOR - NO 5 T/M INSPECTED - MEGGERED, A/C PREVIOUSLY CUT OUT, NOW OK. ALL OTHER T/M'S CHECKED OK.'.

**04.05.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - SOME T/MOTOR BRUSHES REPLACED, A/C SHORT.'.

**04.05.1994** Service defect: 'UN - HOT JOINT ON O/S D/B GRID TO REPLACE.4/5.'.

**13.05.1994** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYN/BRAKE GRID REPLACED, OTHER CONNECTIONS CHECKED ONE LUG CLEANED UP, A/C SLIGHTLY HOT. LOCO OK ON TRIAL RUN.'.

**BL 29**

Details: locomotive 'BL 29 X' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 24.10.1983
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 14.04.1997 | | |
| Last Lift: | 30.10.1993 | | |
| SW Service Mileage: | 563776 KM | SW Service Date: | 17.10.1996 |
| A Service Mileage: | 663715 KM | A Service Date: | 24.03.1997 |
| B Service Mileage: | 598221 KM | B Service Date: | 13.12.1996 |
| C Service Mileage: | 289883 KM | C Service Date: | 21.06.1995 |
| D Service Mileage: | 490408 KM | D Service Date: | 05.06.1996 |
| E Service Mileage: | 487490 KM | A Service Date: | 17.10.1990 |
| F Service Mileage: | 1000575 KM | A Service Date: | 30.10.1993 |
| WT Service Mileage: | 64692 KM | WT Service Date: | 21.04.1994 |
| US Service Mileage: | 676876 KM | A Service Date: | 14.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**04.07.1989** Service defect: 'D - BOGIE - BRACKETS - FRICTION TYPE FLANGE/LUBRICATOR SUPPORT BRACKETS - FITTED.'.

**04.07.1989** Service defect: 'D - ENGINE - SERVICE - ELECT/MECH.SERVICE COMPLETED.'.

**16.07.1989** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. SHOE DAMAGE - D/SIDE NO.5&6 BRAKE SHOES REPLACED.(BURNT)'.

**16.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BLOCKS U/S - ALL BRAKE BLOCKS REPLACED.(THIN & DISCOLOURED)'.

**16.07.1989** Service defect: 'UN - NO FAULT FOUND - DYNAMIC FAULT - OPERATION CHECKED,NOT FAULTED.'.

**16.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - VALVE FAULTY - TOILET FLUSH VALVE REPAIRED.'.

**23.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. LUBRICATORS - CHECKED OK.'.

**31.07.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - MODIFICATION - DE 106 MODULE MODIFIED.(RESISTORS) - DG & DE MODULES QUALIFIED.'.

**31.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LUBRICATOR FAULT - C/BOARD IN CONTROLLER REPLACED.(FAULTY)'.

**31.07.1989** Service defect: 'UN - RADIATOR/PRESSURISING FAN - GRID BLOWER LIGHT - COMMS ON DYN.FANS CLEANED/UP.(STONED) ILLUMINATED. - BRUSH TENSION ADJUSTED.'.

**06.08.1989** Service defect: 'TW - BOGIE - BOGIE LUBE - 2 BAGS IN 1,2,3. 3 BAGS IN 4,5,6, GEAR CASES.'.

**06.08.1989** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED A/C BLOCKED.'.

**29.08.1989** Service defect: 'A - BOGIE - FLANGE LUBRICATOR BRACKETS REMOVED A/C CRACKED. MOD BRACKETSTO BE FITTED AT LATER DATE.'.

**29.08.1989** Service defect: 'A - COOLING SYSTEM RADIATOR - O/SIDE RADIATOR REPLACED A/C LEAKING.'.

**09.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**09.09.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - IND/AIR PIPE REMADE & FITTED TO PIPE RACK.'.
**18.09.1989** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - R.5 BRK/CYLINDER PIPE REPLACED.'.
**18.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SPLIT HOSE - L.4 SANDER HOSE REPLACED.'.
**18.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - COPPER PIPE FROM M/RES. ON BRAKE RACK REPLACED.'.
**24.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**09.10.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - SEVERAL BLOCKS REPLACED & BRAKES ADJUSTED.'.
**09.11.1989** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.
**09.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L5 WICK & OIL REPLACED A/C DIRTY CONDITION.'.
**09.11.1989** Service defect: 'UN - TRACTION MOTOR - TM'S FITTED.(IN 81H11089,81H11081,82M11020,81L11256,81G1113471E11041).'.
**09.11.1989** Service defect: 'UN - WICKS TOCHECK AT PT.AUG.'.
**13.11.1989** Service defect: 'UN - BLOCKED FILTERS - TURBO AIR FILTERS CHANGED A/C BLOCKED.'.
**13.11.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - LC MODULE REPLACED.'.
**13.11.1989** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO.1 & 3 RADIATOR FANS REPLACED A/C SEIZED.'.
**19.11.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 2BAGS OF CRATER ADDED TO ALL GEAR CASES.'.
**28.11.1989** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC FAULT -'.
**09.12.1989** Service defect: 'UN - AIR CONDITIONING - BROKEN PIPE - CONDENSOR PIPE REPAIRED,UNIT RE-GASSED. - OPERATION CHECKED OK.'.
**19.12.1989** Service defect: 'A - AIR CONDITIONING - MOTOR FAILURE - AIR/COND.COMPRESSOR MOTOR REPLACED.'.
**19.12.1989** Service defect: 'UN - AIR CONDITIONING - COMP.MOTOR FAILURE -'.
**21.12.1989** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT -'.
**08.01.1990** Service defect: 'SW - BOGIE - DERAILMENT INSPECTION -'.
**22.01.1990** Service defect: 'UN - AIR CONDITIONING - -'.
**22.01.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**22.01.1990** Service defect: 'UN - RADIO REPAIR - FAULTY HAND/PIECE - 'A'D/SIDE HAND/PIECE REPLACED.'.
**26.01.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK - MARMAN COUPLING RUBBERS REPLACED ON PIPE FROM OIL COOLER TO STRAINER BOX.'.
**04.02.1990** Service defect: 'UN - FUEL SYSTEM - FUEL IN BY/PASS - FUEL FILTERS REPLACED.'.
**06.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**07.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE - DYNAMIC BRAKE ABOVE 600A. MODULE WIRING OK. D.R.MODULE REPLACED.'.
**11.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(1&2),4 BAGS(3&4),5 BAGS(5&6).'.
**11.03.1990** Service defect: 'TW - VIGILANCE - VIGILANCE FAULT - PRESSURE SWITCH & BALL CHECK VALVE/SEAT - REPLACED.'.
**21.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - NOT LOADING/UP - SQUARE 'D' REPLACED.'.
**21.03.1990** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - VIGILANCE CANISTER REPLACED.'.
**06.04.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING - PLATE REMOVED FROM BOLSTER.(2 IN CENTRE)'.
**23.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS - CUT/BACK IN & OPERATION CHECKED OK.'.
**02.05.1990** Service defect: 'UN - BOGIE - FLANGE LUBRICATOR INSPECTION - COMPLETED.'.
**11.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**24.05.1990** Service defect: 'UN - BOGIE - FLANGE LUBRICATORS - INSPECTION COMPLETED.'.
**02.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**06.06.1990** Service defect: 'UN - RADIO REPAIR - CREW CALL MODS.- COMPLETED.'.
**27.06.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**09.07.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE GROUND RELAY LIGHT ON.REPLACED 5 BRUSHES IN NO4 TM, REPLACED 2 BRUSHES IN NO5 TM.'.
**24.07.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOW POWER PROBLEM -'.
**27.07.1990** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOW POWER - LOAD/REGULATOR FACE CLEANED/UP. - LOAD/TESTED 3040 H/POWER.'.
**05.08.1990** Service defect: 'UN - OTHER BODY REPAIRS - BENT LEVERS - 'A'END TRIP LEVERS STRAIGHTENED & RE-ASSEMBLED'.
**16.08.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2,3,4&6),6 BAGS(5).'.
**16.08.1990** Service defect: 'A - TO BE PROFILED A/C R.1 FLANGE (8+). (16/8)'.
**21.08.1990** Service defect: 'SW - BRAKE ADJUST'.
**26.08.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - DIODE FUSE CONNECTING BOLT TIGHTENED.(LOOSE) - T/MOTORS CHECKED OK, MEGGERED 50 M/OHMNS.'.
**31.08.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION -'.
**05.09.1990** Service defect: 'UN - RADIO REPAIR - RADIO MOD.- COMPLETED.'.
**06.09.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL INSPECTION COMPLETED.'.
**14.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**11.10.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO5 TM REBRUSHED A/C FLATS ON COMM.'.
**11.10.1990** Service defect: 'UN - NO.5 T/M FLATS / R2&5 SLACK ADJUSTERS SEIZED'.

**11.10.1990** Service defect: 'UN - PT.AUG.ADVISED.'.
**02.11.1990** Service defect: 'SW - TRACTION MOTOR - FLATS ON COMM.- NO.5 T/MOTOR REPLACED.(BREAKING BRUSHES)'.
**05.11.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**05.11.1990** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.5 WICK CHECK COMPLETED,CHECKED OK.'.
**05.11.1990** Service defect: 'SW - ELECTRICAL MISC. HEADLIGHT - H/LIGHT FAULT - RE20 RESISTOR REPLACED.'.
**08.11.1990** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - AIR/COND UNIT RE-GASSED.'.
**12.12.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**12.12.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSHES NO.2 T/MTR REPLACED. - MOTOR CLEANED & MEGGERED OK.'.
**15.01.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 2 BRUSHES REPLACED NO3 TRACTION MOTOR A/C LOOSE PIGTAILS 2 BRUSHES REPLACED NO4 TRACTION MOTOR A/C SHORT'.
**19.01.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - MOTOR TRANSFER SWITCH REPLACED.'.
**31.01.1991** Service defect: 'UN - TRACTION MOTOR EARTH - # 2 TRACTION MOTOR INTERPOLE TO FRAME'.
**04.02.1991** Service defect: 'UN - NO FAULT FOUND - AIR CONDITIONING NOT WORKING-NO FAULT FOUND.'.
**05.02.1991** Service defect: 'UN - AIR CONDITIONING - C/BREAKER TRIPPING - AIR/COND COMPRESSOR MOTOR CHANGED/OUT. - (BRUSH/HOLDERS SLIPPED)'.
**11.03.1991** Service defect: 'UN - BOGIE - FLANGE LUBRICATOR -'.
**03.04.1991** Service defect: 'UN - BOGIE - FLANGE LUBRICATORS - INSPECTED.'.
**10.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLER - 'A'END TRIP/LEVERS REPLACED.'.
**10.04.1991** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - PRESSURE SWITCH REPLACED. - RE-SET CABLE RE-CONNECTED,OPERATION OK.'.
**29.04.1991** Service defect: 'TS - LUBRICATING SYSTEM - OIL LINE FROM GOV TO PRESSURE GUAGE REPLACED,A/C BROKEN.OIL TOPPED UP.'.
**31.05.1991** Service defect: 'C - DYNAMIC BRAKE - ALL (8) BRUSHES CHANGED DYN/BRAKE BLOWER FANS,A/C CONDEMN LIMIT.'.
**31.05.1991** Service defect: 'C - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT RESISTOR REPLACED,A/C MELTED.'.
**23.06.1991** Service defect: 'UN - LUBRICATING SYSTEM - INSPECTION OF FLANGE LUBRICATING EQUIPMENT COMPLETED.'.
**22.07.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BURNT WIRING - 'A'END CONTROLLER RHEOSTAT & WIRING REPAIRED. - DYNAMIC TESTED OK.'.
**29.07.1991** Service defect: 'SW - GENERAL - INSPECTION CARRIED OUT BY TECHNICAL STAFF,COMPLETED.'.
**08.08.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - LOW POWER - LC MODULE REPLACED,FM MODULE QUALIFIED. - MODULE PANEL WIRING CHECKED OK.'.
**27.09.1991** Service defect: 'SW - ENGINE - 'A'SERVICE - COMPLETED.'.
**27.09.1991** Service defect: 'SW - OTHER BODY REPAIRS - V/LINE MODS.- COMPLETED.'.
**22.10.1991** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.'.
**22.10.1991** Service defect: 'SW - GENERAL - V LINE MODS COMPLETED.'.
**26.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - R4 SAND PIPE BRACKET GIVEN MORE TRACK CLEARENCE & SAND HOSE REPLACED.'.
**26.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - R5 BRAKE LEVER REPOSITIONED & BRAKE CYL PULL ROD REPOSITIONED.'.
**08.11.1991** Service defect: 'UN - GENERAL - VIC MODS COMPLETED.'.
**29.11.1991** Service defect: 'TS - ENGINE - NO 1 POWER ASSEMBLY REPLACED,A/C FAILED PISTON.'.
**29.11.1991** Service defect: 'TS - GENERAL - MODS COMPLETED.'.
**29.11.1991** Service defect: 'TS - LUBRICATING SYSTEM - MICHIANA OIL FILTERS & OIL REPLACED.'.
**13.12.1991** Service defect: 'UN - ENGINE PROTECTION - ENGINE PROTECTION DEVICE OPERATION CHECKED OK.'.
**13.12.1991** Service defect: 'UN - GENERAL - TOILET FLUSH VALVE REPLACED.TOILET CLEANED.'.
**13.12.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L4 SAND PIPE & BRACKET MANUFACTURED & INSTALLED.'.
**13.12.1991** Service defect: 'UN - WHEELSLIP - W/SLIP CHECK,COULD NOT FAULT.'.
**03.01.1992** Service defect: 'UN - BOGIE - TRI-MOUNT PAD REPLACED.'.
**03.01.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - HIGH RESITANCE JOINT BETWEEN LR & LC MODULE.A/C LOW POWER.'.
**03.02.1992** Service defect: 'UN - DYNAMIC BRAKE - DP MODULE REPLACED,A/C SUSPECT RFF/VOLTS.'.
**13.02.1992** Service defect: 'B - COOLING SYSTEM RADIATOR - R1 RADIATOR REPLACED A/C LEAKING.'.
**13.02.1992** Service defect: 'B - EXHAUST - EXHAUST STACK REPAIRED A/C CRACKED THROUGH WELDS.'.
**09.03.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE GROUND RELAYS RESET OK.'.
**09.03.1992** Service defect: 'UN - EXHAUST - EXHAUST GASKET AND SCREEN BOLTS REPLACED TESTED OK.'.
**09.03.1992** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE ROOM DOOR SEALS OK.'.
**12.03.1992** Service defect: 'UN - GENERAL - TOILET FLUSH LEAK REPAIRED.'.
**16.03.1992** Service defect: 'UN - BROKEN PIPE - T/PIPE LEAK REPAIRED.-NUMEROUS BARREL UNIONS AND FITTINGS TIGHTENED.'.
**16.03.1992** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - 'B' END INDEPENDENT BRAKE VALVE GREASED.'.
**19.03.1992** Service defect: 'UN - OTHER BODY REPAIRS - 'A' END D/BRAKE VALVE PAINTED BLACK.-'A' END O/SIDE RADIO HAND-PIECE RELOCATED.-B.MC DONALD

INSPECTED.OK FOR TRAFFIC.'.

**14.05.1992** Service defect: 'A - DYNAMIC BRAKE - 'B'END DYN/BRAKE POT REPLACED,A/C LOOSE POT.'.

**14.05.1992** Service defect: 'A - RADIATOR/PRESSURISING FAN - 1 RADIATOR FAN REPLACED,A/C CABLE INSULATION BROKEN IN FLEXIBLE CONDUIT.RECEPTACLE & MALE PINS REPLACED AS REQUIRED'.

**14.05.1992** Service defect: 'A - TRACTION MOTOR - NO 5 T/M BRUSH HOLDER REPLACED,A/C LOOSE CELLS.'.

**21.05.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - EXTENSIVE INSPECTION & MEGGERING CONDUCTED,NO FAULT FOUND. LOCO OK ON TRIAL RUN.'.

**27.05.1992** Service defect: 'UN - GENERAL - 'B' END CAB SILICONED ,A/C EXHAUST FUMES.'.

**27.05.1992** Service defect: 'UN - TRACTION MOTOR - NO 5 T/MOTOR REPLACED,A/C LOOSE INTERPOLE + SLIGHT BURN ON INTERPOLE.T/M IN-81L1-1026.T/M OUT-81L1-1256.'.

**07.08.1992** Service defect: 'D - ENGINE - TURBO EXHAUST SCREEN REPLACED.'.

**07.08.1992** Service defect: 'D - TRACTION MOTOR - NO.6 T/M BRUSH HOLDER REPLACED.A/C LOOSE CELL.9 O'CLOCK.'.

**02.11.1992** Service defect: 'A - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED.'.

**02.11.1992** Service defect: 'A - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT MODS COMPLETED.'.

**02.11.1992** Service defect: 'A - ENGINE - ENGINE PROTECTION DEVICE CHANGED,A/C LEAKING.'.

**08.12.1992** Service defect: 'UN - BOGIE - R5 AXLE BOX THRUSH PAD REPLACED, WASHED OUT & REFILLED WITH OIL.'.

**27.12.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGE COMPLETED.'.

**02.02.1993** Service defect: 'TS - ENGINE - NO 14 POWER ASSEMBLY CHANGED OUT, A/C BROKEN PISTON. LOCO RUN UP & CHECKED OK.'.

**07.02.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - NO 4 WICK REPLACED.'.

**07.02.1993** Service defect: 'B - ENGINE CYLINDER HEADS - NO 7 CYLINDER HEAD REPLACED, A/C WATER LEAK.'.

**21.02.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NEW DCI ARC SHUTE LATCH FITTED, A/C FOUND BENT & PREVENTING DCI FROM COMING IN, CHECKED OK.'.

**21.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT BRAKES APPLY CONSTANTLY, REPLACED INDEPENDANT PORTION.'.

**08.03.1993** Service defect: 'SW - EXHAUST - EXHAUST STACK WELDED.'.

**08.03.1993** Service defect: 'SW - GENERAL - SERVICE WATER TANK REPAIRED. RADIO PLATE ON ROOF REMOVED.'.

**08.03.1993** Service defect: 'SW - AUX GEN TO MONITOR.8/4.'.

**16.03.1993** Service defect: 'SW - AUXILLARY MACHINES - AUX GEN NOT FIRING UP PROPERLY, LOCO RELEASED TO TRAFFIC, FAULT FINDING CONTINUING.'.

**24.03.1993** Service defect: 'SW - ALTERNATOR - M/ALT INSPECTED WITH ENDOSCOPE, COULD NOT FAULT ( CANNOT LOCATE POSITION OF NOISE).'.

**24.03.1993** Service defect: 'SW - AUXILLARY MACHINES - ALL EXTERNAL WIRING TO AUX GEN CHECKED VISUALLY OK, RESISTANCE READINGS OF AUX GEN FIELD CHECKED OK, A/C UNUSUAL'.

**24.03.1993** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH FOUND IN RELAY UNIT OF AIR CON PANEL, REPAIRED OKAY.'.

**24.03.1993** Service defect: 'SW - GENERAL - TOILET VALVE REPLACED.'.

**19.04.1993** Service defect: 'UN - BOGIE - ALL TRIMOUNT RUBBERS REPLACED,A/C TORN.'.

**19.04.1993** Service defect: 'UN - GENERAL - WINDSCREEN WIPER 'A'END REPAIRED.'.

**19.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR ADJUSTED.'.

**07.05.1993** Service defect: 'A - AUXILLARY MACHINES - AUX. GENORATOR REPLACED A/C NO OUTPUT.'.

**07.05.1993** Service defect: 'A - BLOCKED FILTERS - ENGINE AIR INTAKE FILTERS CHANGED A/C DIRTY.'.

**07.05.1993** Service defect: 'A - COOLING SYSTEM - WATER SIGHT GLASS LEAK REPAIRED. COOLANT CHANGED. HEADER TANK LEAK REPAIRED.'.

**07.05.1993** Service defect: 'A - ELECTRICAL MISC. HEADLIGHT - 'A' END HEADLIGHTS ADJUSTED.'.

**07.05.1993** Service defect: 'A - ENGINE - TOP DECK COVER SEALS CHECKED OK FOR LEAKS. HEAD FRAME BOLTSRETORQUED.'.

**07.05.1993** Service defect: 'A - OTHER BODY REPAIRS - NEW SHATTER PROOF WINDSCREENS FITTED TO 'A' END. OBSERVERS SIDE BLIND REPAIRED.'.

**07.05.1993** Service defect: 'A - NO.13 LINER TO MONITOR A/C SCORING.7/5/93.'.

**10.05.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY OPERATED. CHANGED ONE BRUSH ON TOP OF NO.6 T/M A/C PIG TAIL. EARTH STRAP RE-LUGGED.'.

**21.05.1993** Service defect: 'UN - TOILET TO REPAIR,A/C CONTINUALLY FLUSHING. BOTH'.

**21.05.1993** Service defect: 'UN - SIGHT GLASSES ON FUEL TANK TO CLEAN OR REPAIR NEXT'.

**21.05.1993** Service defect: 'UN - SERVICE.21/5.'.

**11.06.1993** Service defect: 'UN - FUEL SYSTEM - FUEL SIGHT GLASS REPLACED.'.

**05.07.1993** Service defect: 'UN - EXHAUST - CRACKED EXHAUST MANIFOLD WELDED.'.

**09.07.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE GRIDS MEGGERS 10K.'.

**09.07.1993** Service defect: 'UN - GENERAL - SEATS FITTED. WIPER MOTOR REPAIR COMPLETED. WINDSCREENS RESEALED.'.

**09.07.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - T/M BRUSHES REPLACED.'.

**29.07.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT CHANGED, A/C U/S. LOCO CHECKED OKAY.'.

**04.12.1993** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - NO 4 WHEELSET REPLACED, A/C AXLE CONDITION.'.

**04.12.1993** Service defect: 'A - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR REPLACED EX DL41, A/C NO RADAR SIGNAL.'.

**04.12.1993** Service defect: 'A - GENERAL - CAB REPAIRS COMPLETED.'.

**04.12.1993** Service defect: 'A - TRACTION MOTOR - NO 4 T/M REPLACED, A/C COMMUTATOR BEARING FAILURE.'.

**13.12.1993** Service defect: 'UN - OTHER BODY REPAIRS - 'A'END D/SIDE WINDSCREEN TAPED UP A/C CRACKED. NIL STOCK MPC. LOCO SENT INTO TRAFFIC AS TRAILING UNIT.'.
**06.01.1994** Service defect: 'UN - ELECTRICAL MISC. MODULES - DG101 MODULE REPLACED, A/C GRID BLOWER LIGHT ON AND GRID RELAY LIT UP. LOAD TESTED OK.'.
**14.01.1994** Service defect: 'TS - DYNAMIC BRAKE - DYN.BRAKE FAILURE. TERMINAL ON D/BRAKE RHEOSTAT REPAIRED.'.
**14.01.1994** Service defect: 'TS - ENGINE - ENGINE OIL AND FILTERS CHANGED, A/C FUEL DILUTION. FUEL INJECTORS CHECKED OK.'.
**14.01.1994** Service defect: 'TS - FUEL SYSTEM LINES - NO.13 FUEL LINE REPLACED, A/C DENTED.'.
**26.02.1994** Service defect: 'UN - BOGIE - LATERAL CLEARANCES - REMOVED A TOTAL OF 42 SHIMS AS DETAILED ON SHEETS. REPLACED 21 RESILIENT THRUST RUBBERS. CHECKED'.
**22.03.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER NOT THROWING OVER. 2 MICRO-SWITCHES REPLACED. RE-WIRED CORRECTLY.'.
**25.03.1994** Service defect: 'SW - BOGIE - BOGIES ROTATED. ALL 4 TRI-MOUNT RUBBERS CHANGED, PLUS L.H. 'B'END WEAR PLATE CHANGED. DIRECTION TESTED OK.'.
**25.03.1994** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - SMALL AIR LEAK 'A'END, FLOW METER GAUGE REPAIRED.'.
**25.03.1994** Service defect: 'SW - TRACTION MOTOR - NO 3 T/MOTOR REPLACED.'.
**09.04.1994** Service defect: 'TS - LOCO WORKING WITH NO 2 T/MOTOR CUT OUT, A/C GR'S.'.
**12.04.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 2 T/MOTOR REPLACED, A/C GR'S. T/M IN- 81M1-1028. LOCO MOVEMENT TESTED OK.'.
**12.04.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR PIPE LEAK BEHIND DASH REPAIRED.'.
**18.04.1994** Service defect: 'B - DYNAMIC BRAKE - D/S MIDDLE BRAKE CHANGE, A/C HOT LUGS ON GRID.'.
**18.04.1994** Service defect: 'B - ENGINE - GASKET REPLACED ON EDUCTOR TUBE, A/C DIESEL FUMES IN CAB.'.
**18.04.1994** Service defect: 'B - GENERAL - NEW FLUSH VALVE FITTED TO W.C. MUFFLER AND DRAIN FITTED TO FRIDGE.'.
**14.05.1994** Service defect: 'UN - CONTACTOR EP VALVES - 'A'END FWD SANDING VALVE REPLACED, A/C LEAKING.'.
**14.05.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED ON NO 5 T/MOTOR.'.
**05.06.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED IN NO 3 T/MOTOR, A/C HOT PIGTAILS ONE BRUSH HAD HAMMER LEFT UP AND BRUSH WAS JAMMED UP. ALL OTHER'.
**17.06.1994** Service defect: 'TS - ALTERNATOR - NEG BASE DIODE + PROTECTION FUSE REPLACED IN MAIN ALTERNATOR A/C GROUND RELAYS.'.
**17.06.1994** Service defect: 'TS - BOGIE - 'A'END SHOCKER REPLACED.'.
**24.06.1994** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT LOW BEAM ADJUSTD TO 30 VOLTS.'.
**24.06.1994** Service defect: 'TS - ELECTRICAL MISC. MODULES - W/SLIP WHEN T/MOTOR 6 CUT OUT - CHANGED F.M.MODULE AND CHECKED OK.'.
**27.06.1994** Service defect: 'TS - ALTERNATOR - 8 FUSES REPLACED IN MAIN ALTERNATOR, CHECKED OK.'.
**27.06.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 4 T/MOTOR REPLACED, A/C GR'S.'.
**27.06.1994** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - LOW BEAM HEADLIGHT VOLTAGE LOWERED.'.
**27.06.1994** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDER REPLACED, A/C AIR INLET SECTION SMASHED, LEAKING AIR.'.

**BL 30**

Details: locomotive 'BL 30 E' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 06.12.1984
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 21.04.1997 | | |
| Last Lift: | 13.11.1989 | | |
| SW Service Mileage: | 1341161 KM | SW Service Date: | 11.04.1997 |
| A Service Mileage: | 1305898 KM | A Service Date: | 19.02.1997 |
| B Service Mileage: | 1252207 KM | B Service Date: | 14.11.1996 |
| C Service Mileage: | 858906 KM | C Service Date: | 26.11.1994 |
| D Service Mileage: | 1130367 KM | D Service Date: | 10.05.1996 |
| E Service Mileage: | 612925 KM | A Service Date: | 06.09.1993 |
| F Service Mileage: | 949943 KM | A Service Date: | 13.11.1989 |
| WT Service Mileage: | 709422 KM | WT Service Date: | 28.02.1994 |
| US Service Mileage: | 1348171 KM | A Service Date: | 21.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**18.07.1989** Service defect: 'SW - BOGIE - SEIZED ADJUSTER - R.5 SLACK/ADJUSTER REPLACED.'.
**08.08.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - BLOWN HEADLIGHT - A/C FAULTY WIRING ON (A) END.'.
**13.11.1989** Service defect: 'F - AUXILLARY MACHINES - AND VIGILANCE BUTTON MODIFICATION COMPLETED. STARTER MOTORS FUEL & TURBO LUBE PUMP MOTORS O/HAULED.'.

**13.11.1989** Service defect: 'F - BATTERY MAINTENANCE - NEW BATTERIES FITTED, BATTERY BOX MODIFIED. ALTERNATOR AND AUX. GEN. OVERHAULED. COUPLING LIGHTS FITTED. MARKER LIGHT'.
**13.11.1989** Service defect: 'F - CONTACTOR EP VALVES - E.P. VALVES & THEROMSTATS O/HAULED. MAIN CONTACTORS O/HAULEDCONTROLLERS SERVICED. SPEED RECORDER O/HAULED.'.
**13.11.1989** Service defect: 'F - ENGINE - 1 NEW CAMSHAFTT SEGMENT AND 1 NEW FORK ROD REPLACED, ORIGINAL CRAB PLATES REPLACED. MECHANICALLY BONDED RADIATORS'.
**13.11.1989** Service defect: 'F - ENGINE - 16 NEW HEADS (NO5) 16 NEW LINERS ALL NEW PISTONS WITH HARDENED TOP GROOVE. NEW CARRIER INSERTS AND LOWER LINER INSERTS'.
**13.11.1989** Service defect: 'F - ENGINE - ENGINE EX AL 25 INSTALLED SERIAL NO 75-H3-9257 ALL TOP DECK SEATS MACHINED. MAIN BEARINGS, BIG END BEARINGS'.
**13.11.1989** Service defect: 'F - RADIATOR/PRESSURISING FAN - RADIATOR & DYNAMIC BRAKE FANS O/HAULED.'.
**14.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COLLECTOR BURNT OUT & FAULTY CONNECTION BLOCK ON SPEEDO.'.
**15.11.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.CHECKED IN DEPOT,UNABLE TO FAULT.'.
**16.11.1989** Service defect: 'UN - DYNAMIC BRAKE - MOTOR BRAKE TRANSFER SWITCH REPLACED A/C ORIGINAL CLUTCH SLIPPING. POWER & DYNAMIC CHECKED OK. TRACK TESTED OK.'.
**24.11.1989** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - LOW PRESSURE VALVE RE-SET,5 LB GAS ADDED.'.
**24.11.1989** Service defect: 'UN - AUXILLARY MACHINES - W/COOLER FAULT - UNIT REPAIRED.'.
**24.11.1989** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**24.11.1989** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - ?'.
**31.12.1989** Service defect: 'UN - NO FAULT FOUND - NO POWER ON OCCASIONS - LOCO NOT FAULTED IN DEPOT.'.
**05.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK -'.
**13.01.1990** Service defect: 'UN - OTHER BODY REPAIRS - BENT TRIP LEVER - 'A'END TRIP LEVER STRAIGHTENED.'.
**20.01.1990** Service defect: 'SW - AIR CONDITIONING - NOT COOLING - AIR/COND.UNIT RE-GASSED.(18LBS ADDED)'.
**20.01.1990** Service defect: 'SW - ELECT. MISC. - GAUGES & INSTRUMENTS - NEEDLE STICKING - VIGILANCE GAUGE REPLACED.'.
**16.02.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND.FAULT - H/PRESSURE CUT/OUT RE-SET.'.
**16.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - SPEEDO GENERATOR REPAIRED.'.
**16.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - 'A'END TRIP/LEVER - REPLACED.'.
**19.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(1,3,4,5&6).'.
**19.02.1990** Service defect: 'TW - VIGILANCE - VIGILANCE FAULT - BUTTON REPLACED.'.
**20.02.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND.- SYSTEM RE/GASSED & OPERATION CHECKED OK.'.
**03.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE - NO FAULT FOUND,MODULES QUALIFIED OK.'.
**03.03.1990** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - 3 BAGS OF CRATER ADDED TO ALL GEAR CASES.'.
**09.03.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.
**09.03.1990** Service defect: 'UN - TRACTION MOTOR - ALL TM'S CHANGED.(IN 81K11359,81K11350,81G11167,81M11029, 81G1162,81M11007).'.
**09.03.1990** Service defect: 'UN - L/E RUN & WICK CHECK,HAUL TO PT AUG & WICK CHECK,F'.
**09.03.1990** Service defect: 'UN - URTHER RUN AND WICK INSP OF O/HAUL BOGIES.RN 9/3'.
**10.03.1990** Service defect: 'UN - WICKS TO CHECK AT PT.AUGUSTA'.
**26.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**26.04.1990** Service defect: 'TW - RADIO REPAIR - RADIO FAULT - WIRING REPAIRED.(WIRES CHAFFED)'.
**03.05.1990** Service defect: 'UN - BOGIE - 'B'BOGIE BOOKED NOISY.CRATER CHECKED,OK.EACH BOX TOPPED UP WITH 2 BAGS.'.
**04.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,3&4),OTHERS OK.'.
**20.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**20.05.1990** Service defect: 'TW - #1 AXLE/BOX SPRING TO RE-POSITION. (22/5)'.
**25.05.1990** Service defect: 'SW - BOGIE MAINTENANCE - SPRINGS - AXLE BOX SPRING - O/SIDE NO.1 AXLE/BOX SPRING RE-POSITIONED.'.
**18.06.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO.4 T/MOTOR INT/POLE EARTH. - TO BE CHANGED AT P/BORO.'.
**18.06.1990** Service defect: 'TS - NO.4 T/MOTOR TO REPLACE A/C EARTH FAULT. (18/6)'.
**18.06.1990** Service defect: 'TS - BEING HAULED TO P/BORO.'.
**19.06.1990** Service defect: 'SW - TRACTION MOTOR - INT/POLE EARTH - NO.4 T/MOTOR REPLACED.'.
**20.06.1990** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.4 WICK & SUPPORT BEARING CHECK COMPLETED. LUBRICANT CHECK - 2 BAGS(4,5&6),1,2&3 FULL.'.
**07.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 4 BAGS ADDED TO EACH CASE.'.
**15.07.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - NO'S.,1,2,3 ( 4 BAGS ), NO'S.,4,5,6 ( 6 BAGS ).'.
**28.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(2,3,4&6),6 BAGS(1&5). EXCESS TRAVEL - SEVERAL BLOCKS REPLACED & BRAKES ADJUSTED.'.
**03.08.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK - O/SIDE NO.1 RADIATOR REPLACED.'.
**13.08.1990** Service defect: 'A - AUXILLARY MACHINES - BOLT SHEARED - AUX/GEN.BOLT REPLACED.'.

**13.08.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 3 BAGS(2&4),4 BAGS(3),5 BAGS(5),6 BAGS(6).'.
**13.08.1990** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - WIRING MOD - COMPLETED.(RE-WIRE TO RECORD WHEN HAULED)'.
**13.08.1990** Service defect: 'A - TRACTION MOTOR - BRUSH/HOLDER DAMAGE - NO.4 T/MOTOR BRUSH/HOLDER REPLACED. - (BOLT FELL OUT & ARCED ON HAMMERS)'.
**24.08.1990** Service defect: 'TS - ALT SLIP RINGS BURNT'.
**08.09.1990** Service defect: 'SW - ALTERNATOR - ALTN FAILURE - SLIP/RINGS REPLACED.(H.R.JOINT) - D14&AR10 WIRING REPLACED.(REMOVED ALTN.TO REP'.
**13.09.1990** Service defect: 'UN - AUXILLARY MACHINES - FILTER BLOWER MOTOR - FEMALE PIN ON PLUG REPAIRED.(CIRCLIP)'.
**13.09.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PULLMETER - REPLACED.(FAULTY)'.
**13.09.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BURNT RESISTOR - RE32 RESISTOR REPLACED.'.
**13.09.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN FAILURE - NO.3 RADIATOR FAN REPLACED.'.
**19.09.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - NO POWER - L.C.&P.S.MODULES REPLACED. - RE&CA 32 REPLACED.(CAPICITER SHORTED/OUT)'.
**30.09.1990** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - C/BREAKER TRIPPING - PS11 REPLACED,LOCO TESTED OK. (MODULE)'.
**09.10.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - MODULE CIRCUIT BREAKER TRIPPING-PS11 REPAIRED AND RA CHANGED'.
**26.10.1990** Service defect: 'UN - ENGINE - CRANK/CASE OPERATION - # 11 POWER ASSEMBLY CHANGED.'.
**08.11.1990** Service defect: 'TS - ELECTRICAL MISC. MODULES - MODULE FAILURE - PS2 FAULT,RADAR FAULT & CA32&RE32 U/S. - CIRCUIT BOARDS IN RADAR UNIT REPAIRED.'.
**15.11.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**15.11.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - PS MODULE FAULT - EL MODULE REPLACED.(FAULTY) - PS11 MODULE REPLACED.(DROPPING MODULE C/B)'.
**18.11.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - NO POWER - AUX/GEN BRIDGE RECTIFIER BANK REPLACED.(EX BL32) - (NO OUT/PUT FROM AUX/GEN)'.
**21.11.1990** Service defect: 'TS - ENGINE GOVERNOR - SHUT/DOWN IN IDLE - POWER/PACK IN GOVN.CHANGED.('D'SOLENOID) - LOCO FAILED ON TRAIN NO.4129.(COALY)'.
**29.11.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FLUCTUATING POWER -'.
**11.01.1991** Service defect: 'UN - ALTERNATOR - EARTH FAULT - ALTN.CHANGE/OUT COMPLETED.'.
**22.01.1991** Service defect: 'UN - ENGINE - # 12 POWER ASSEMBLY CHANGED A/C CRANKCASE.'.
**01.03.1991** Service defect: 'UN - ENGINE - 645E3B INTO BL30. ALL HEAD SEATS MACHINED. (NEW PARTS REPLACED - MAIN BEARINGS, CONROD BEARINGS,'.
**01.03.1991** Service defect: 'UN - ENGINE - BEARINGS, LOWER LINER INSERTS, ROCKER ROLLER BUSHES.) (ORIGINAL PARTS REPLACED - CONROD BLADES, CONROD FORKS'.
**01.03.1991** Service defect: 'UN - ENGINE - CRAB PLATES INSTALLED.'.
**01.03.1991** Service defect: 'UN - ENGINE - CRANKSHAFT, CAMSHAFTS.) SCAVENGING OIL PUMP O/HAULED. WATER PUMPS O/HAULED. ONE MAIN BEARING CAP MACH.- NO. 6'.
**01.03.1991** Service defect: 'UN - ENGINE - CYLINDER LINERS, CYLINDER HEADS, PISTONS, ONE NEW FORK ROD, CARRIER BEARING INSERTS, TWO NEW PISTON CARRIERS, CAMSHAFT'.
**01.03.1991** Service defect: 'UN - ENGINE - ENGINE CHANGE - COMPLETED. ENGINE EX BL33 INSTALLED SERIAL NUMBER 81M1-1086 MODEL'.
**01.03.1991** Service defect: 'UN - ENGINE - EXCEPT ONE, PISTON PINS, HARMONIC BALANCER- GEAR TYPE, CAMSHAFT GEARS, TURBO DRIVE GEAR, IDLER GEAR AND STUBSHAFT,'.
**06.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - TRIGGER GEAR U/S - 'A'END TRIGGER GEAR REPLACED.'.
**06.05.1991** Service defect: 'UN - OTHER BODY REPAIRS - LOCKING BAR - D/SIDE LOCKING BAR RE-POSITIONED.'.
**12.06.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**03.07.1991** Service defect: 'SW - OTHER BODY REPAIRS - V/LINE MODS - COMPLETED.'.
**06.07.1991** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.'.
**09.07.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - ALL WICKS REMOVED & CLEARANCES MEASURED OK.L2 WICK REPLACED.'.
**09.07.1991** Service defect: 'UN - GENERAL - 'A'END OBS SIDE FRONT WINDSCREEN REPLACED,A/C BROKEN BY VANDALS.O/SIDE SEAT REPLACED,A/C RIPPED.'.
**12.07.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MAIN CONTACTORS COMING IN SLOW.HEATER WIRING REPOSITIONED CORRECTLY.'.
**19.08.1991** Service defect: 'TS - WHEELSLIP - NO 4 T/MOTOR REPLACED,A/C WHEELSLIP IN DYN/BRAKE.'.
**10.09.1991** Service defect: 'UN - GENERAL - AFULE INSP OF MODS & REPAIRS COMPLETED.'.
**01.11.1991** Service defect: 'D - ELECTRICAL MISC. MODULES - EN MODULE 101 CHANGED FOR EN MODULE 104 & WIRING COMPLETED.'.
**01.11.1991** Service defect: 'SW - ENGINE AIR FILTERS - FINAL AIR FILTER REPLACED.'.
**01.11.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - TWIN TOWER AIR DRYER REPLACED,A/C U/S.'.
**20.11.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GR'S IN NO 5 T/MOTOR,6 BRUSHES CHANGED,A/C PIGTAILS.CLEANED P=5M OHMS.'.
**25.11.1991** Service defect: 'UN - TRACTION MOTOR - NO 1 T/MOTOR REPLACED,A/C ARMATURE LEAD BLOWN.IN-1M-1157. OUT- 82B1-1008.'.
**09.12.1991** Service defect: 'TS - BOGIE - BOGIE CHANGE UNTO BL 34'S BOGIES COMPLETED,TRACK TESTED OK.'.
**23.12.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - R2 RADIATOR REPLACED. A/C

LEAKING.RADIATORS CHECKED OK.'.

**01.02.1992** Service defect: 'UN - TRACTION MOTOR - TOP BRUSH HOLDER IN NO 6 T/MOTOR REPLACED.'.

**21.02.1992** Service defect: 'A - ALTERNATOR - ALTINATOR REPAIRED BRUSH CHANGED OK.'.

**21.02.1992** Service defect: 'A - COOLING SYSTEM RADIATOR - LEAK IN RADIATOR NO 283 REPAIRED.'.

**21.02.1992** Service defect: 'A - ELECTRICAL MISC. GROUND RELAY - RELAY INCORECTLY WIRED-REPAIRED.'.

**21.02.1992** Service defect: 'A - GENERAL - 'B'END COUPLING LEAVER REPAIRED.'.

**21.02.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - TRACTION MOTOR NO5,CLEANED AND REPAIRED.'.

**21.02.1992** Service defect: 'A - MIRROR'A'END TO REPLACE. D/SIDE SEAT TO FIX.D/SIDE'.

**21.02.1992** Service defect: 'A - A/FRIDGE BRACKET TO REPAIR.'.

**07.04.1992** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONER COMPRESSOR REPAIRED.'.

**07.04.1992** Service defect: 'SW - BOGIE - 1 TRIMOUNT PAD REPLACED.'.

**07.04.1992** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - COUPLER LOCK LIFTER REPAIRED.'.

**30.04.1992** Service defect: 'B - BOGIE - 1 TRIMOUNT CHANGED.'.

**07.05.1992** Service defect: 'SW - GENERAL - REMOVED 'B'END FRIDGE.'.

**07.07.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - 45 BRUSHES CHANGED A/C TOO SHORT OR BROKEN. P=5MEGGER OHMS.'.

**07.07.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NOS. 5&6 T/MS FLASHED.-ONE BRUSH HOLDER CHANGED IN NO.6 T/M.'.

**21.07.1992** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - 'B' END DRIVERS BRAKE VALVE CHANGED A/C LEAKING. DOUBLE CHECK VALVE ON CHARGING ENDS LUBRICATED.'.

**24.07.1992** Service defect: 'A - BOGIE - R2 SLACK ADJUSTER REPAIRED.'.

**24.07.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R1;R3;L5 WICKS CHANGED.'.

**24.07.1992** Service defect: 'A - FUEL SYSTEM - FUEL TANK WATER TRAPS DRAINED A/C EXESSIVE WATER IN TANK.'.

**24.07.1992** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO.2 FAN CONTACTOR CHANGED A/C BROKEN CASING.'.

**24.07.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 15 BRUSHES CHANGED A/C CONDEMNING LIMIT. 2 BRUSHES CHANGED A/C FRAYED PIGTAILS.'.

**23.08.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - CHANGED 4 T/M BRUSHES A/C HANGING PIGTAILS CAUSED FLASHOVER.'.

**01.09.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO.6 T/M TOP AND CENTRE BRUSH HOLDERS REPLACED A/C BAD FLATSON COMMUTATOR. T/M PAINTED AND CLEANED. T/M TO CHANGE A/C'.

**01.09.1992** Service defect: 'UN - NO.6 T/M TO CHANGE A/C BAD FLATS. 1/9/92.'.

**14.10.1992** Service defect: 'C - GENERAL - 'B'END AIR FRIDGE REMOVED.'.

**14.10.1992** Service defect: 'C - TRACTION MOTOR FLASHOVER - BRUSH HOLDER REPLACED IN NO 3 T/MOTOR, A/C FLASHOVER.'.

**15.10.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - 'A'END HEADLIGHT MOD COMPLETED.'.

**15.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END PACKAGE REPLACED, A/C BLOWN.'.

**08.11.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED IN NO 4 & NO 6 T/MOTORS, A/C LEADS PULLED OUT EVERYWHERE. BOTTOM BRUSH HOLDER CHANGED IN NO 4'.

**08.11.1992** Service defect: 'TS - L3 & R3 SLACK ADJUSTERS FOR ATTENTION NEXT SERVICE'.

**08.11.1992** Service defect: 'TS - A/C VERY TIGHT.8/11.'.

**23.11.1992** Service defect: 'UN - GENERAL - WINDOW REPLACED, A/C CRACKED.'.

**23.11.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO 2 T/M FOUND WITH PULLED PIGTAILS,ALSO NO 4 & 6 T/M'S. SEVERAL REPLACED, A/C GR'S.'.

**26.11.1992** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED. BOGIE LUBE INSPECTION OK.'.

**27.11.1992** Service defect: 'SW - ELECTRICAL MISC. HEADLIGHT - 'B' END HEADLIGHT MODS COMPLETED.'.

**27.11.1992** Service defect: 'SW - GENERAL - BULLET PROOF WINDOWS FITTED. PAD BOLTS FITTED TO CABS & PAINTED.'.

**07.12.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - T/M CUT OUT, NO 6 NOT CUTTING OUT. WIRE MLP62 CONNECTED TO E4 ON SELECTOR EW. 6Y12 LINK BETWEEN D5,E5 IN SELECTOR'.

**07.12.1992** Service defect: 'TS - GENERAL LOSS OF POWER - INTERMITTENT POWER LOSS - CDR RELAY REPLACED, A/C NOT PICKING UP AFTER CHANGING DIRECTION.'.

**07.12.1992** Service defect: 'TS - TRACTION MOTOR FLASHOVER - FLASHOVER NO 4 T/M, CLEANED MOTOR & MEGGERED OK. NO 2 & 4 T/M'S FLASHOVERS, CLEANED & BRUSHES CHANGED.'.

**10.12.1992** Service defect: 'UN - TRACTION MOTOR EARTH - NO 1 T/MOTOR REPLACED, A/C EARTH. MOVEMENT TESTED IN POWER &DYNAMIC. T/M IN- 6P-86. OUT-81L1-1256.'.

**11.12.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BK - B MICRO SWITCH IN 'A' END CONTROLLER CHANGED, A/C D/B U/S.'.

**22.12.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.5.WHEELSET REPLACED T/M CONECTED OK.'.

**22.12.1992** Service defect: 'UN - REQUIRES NEW BOLT ON AXLE BOX R4.'.

**09.01.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 'B'END RHEOSTAT INSTALED 'A' END A/C NIL STOCK.'.

**09.01.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END NO4.BRAKE HOSE PIPE REPAIRED. L3.L4.SLACK ADJUSTERS REPAIRED.'.

**14.01.1993** Service defect: 'UN - EXHAUST - REPLACED EXHAUST SCREEN CHECKED OK.'.

**10.02.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NO 6 T/MOTOR REPLACED, A/C EARTH FAULT,ARMATURE TO INTERPOLE'.

**16.02.1993** Service defect: 'UN - NO FAULT FOUND - LOCO SENT ON TRIAL RUN, NO FAULT FOUND. POWER OK, NO GR'S..'.

**24.02.1993** Service defect: ‘TS - TRACTION MOTOR LOOSE PINION - TRACTION MOTOR NUMBER 6 REPLACED A/C SLIPPED PINION’.
**26.02.1993** Service defect: ‘TW - BOGIE MAINTENANCE - WICKS - L6 WICK AND OIL CHANGED A/C DIRTY.’.
**05.04.1993** Service defect: ‘B - BOGIE - ‘B‘END TRI-MOUNTS REPLACED. O/SIDE TRI-MOUNT SLIDE REPLACED A/C U/S.’.
**05.04.1993** Service defect: ‘B - COOLING SYSTEM - BRACKET ON WATER OVERFLOW PIPE ON HEADER TANK REWELDED,A/C BROKEN.’.
**05.04.1993** Service defect: ‘B - GENERAL - OBS/SIDE BLIND REPLACED.’.
**05.04.1993** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL VALVE REPLACED.’.
**05.04.1993** Service defect: ‘B - TRACTION MOTOR - NOS 4 & 5 T/M ‘V‘RINGS WIPED,A/C EXCESS OIL.’.
**12.04.1993** Service defect: ‘UN - BOGIE - R4 SPRING CHECKED OK FOR TRAFFIC,A/C CRACKED.’.
**28.04.1993** Service defect: ‘UN - ELECTRICAL MISC. MODULES - NO POWER - MODULE POWER SUPPLY FOUND HANGING PUT. PS11 MODULE REPLACED, A/C BROKEN HANDLE ALLOWING MODULE TO FALL’.
**28.04.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - ‘B‘END AUTO COUPLING LOCK LIFTER REPAIRED, A/C BENT.’.
**02.05.1993** Service defect: ‘SW - BOGIE - R4 SPRING REPLACED.’.
**02.05.1993** Service defect: ‘SW - DYNAMIC BRAKE - DR MODULE REPLACED WITH UNIT FROM BL 29,A/C D/B FAILURE.’.
**27.05.1993** Service defect: ‘UN - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK.’.
**27.05.1993** Service defect: ‘UN - ELECTRICAL MAINTENANCE -WIRING - WIRING CORRECTED ON BR RELAY,A/C NEGATIVE LINK WIRE NO N15 MISSING BETWEEN COIL NEG(Z) & 2NO ON BR3 RELAY. 24T SIGNAL’.
**02.06.1993** Service defect: ‘UN - ELECTRICAL MISC. MODULES - FG MODULE SWAPPED WITH BL31 TO SEE IF GRID OVER CURRENT FAULT FOLLOWS MODULE.’.
**11.06.1993** Service defect: ‘SW - ELECTRICAL MISC. MODULES - PS11 MODULE CHANGED,A/C READING 16.3V POS TO COM.’.
**25.06.1993** Service defect: ‘A - ELECTRICAL MISCELLANEOUS - ‘A‘END GAUGE LIGHT DIMMER REPLACED. ‘A‘END MAN POWER RHEOSTAT REPLACED.’.
**25.06.1993** Service defect: ‘A - ELECTRICAL MISCELLANEOUS BURNT WIRING - B WIRES TAPPED,A/C LUGS ON TEST POINT BLOWN AWAY. A + C POINTS RELUGGED,A/C DAMAGED. GP+GN TEST POINT LUGS RELUGGED’.
**25.06.1993** Service defect: ‘A - MECHANICAL EQUIPMENT COUPLER - ‘B‘END COUPLER REPLACED.’.
**25.06.1993** Service defect: ‘A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.’.
**25.06.1993** Service defect: ‘A - MECHANICAL MAINTENANCE - AIR BRAKE - 5 CONTROL AIR HOSES REPLACED.’.
**25.06.1993** Service defect: ‘A - MAN POWER RHEOSTAT REQ’D FOR B END.25/6.’.
**12.07.1993** Service defect: ‘UN - GENERAL - SERVICE WATER TANK REPAIRED,A/C LEAKING. ‘B‘END OBS SIDE SEAT REPLACED.’.
**12.07.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED & NEW BOX LIDS FITTED.’.
**06.09.1993** Service defect: ‘E - BOGIE MAINTENANCE - WICKS - R1,R4,R5 & L5 WICKS REPLACED.’.
**06.09.1993** Service defect: ‘E - DYNAMIC BRAKE - DYN/BRAKE RHEOSTAT CIRCUIT BREAKERS FITTED TO ‘A‘& ‘B‘END. DYN CHECKED BOTH ENDS.’.
**01.10.1993** Service defect: ‘UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CLUTCH TESTED OK.’.
**01.10.1993** Service defect: ‘UN - EXHAUST - TURBO EXHAUST CONNECTOR CHANGED.’.
**11.10.1993** Service defect: ‘UN - AIR CONDITIONING - AIR CON. REGASSED.’.
**17.11.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPLACED.’.
**17.11.1993** Service defect: ‘UN - TRACTION MOTOR BRUSHES - 3 O’CLOCK BRUSH HOLDER REPLACED ON NO 4 T/MOTOR. ALL OTHER B/HOLDERS CHECKED & SOME ADJUSTED.’.
**27.11.1993** Service defect: ‘A - BOGIE - L2 SLACK ADJUSTER OVERHAULED, A/C SEIZED.’.
**27.11.1993** Service defect: ‘A - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR HANGING ON BY ONE BOLT - REPLACED, ANGLE CHECKED 45DEGS.’.
**27.11.1993** Service defect: ‘A - GENERAL - TOILET FLUSH VALVE OVERHAULED, A/C NOT FLUSHING- SEIZED.’.
**27.11.1993** Service defect: ‘A - TRACTION MOTOR - NO 6 T/MOTOR EARTH CABLE REPLACED.’.
**27.11.1993** Service defect: ‘A - ENGINE PROTECTION DEVICE TO REPLACE, A/C LEAKING’.
**27.11.1993** Service defect: ‘A - OIL FROM VENT.27/11.’.
**06.12.1993** Service defect: ‘SW - BOGIE - BOGIE ROTATION COMPLETED AND DIRECTION TESTED CARRIED OUT.’.
**14.12.1993** Service defect: ‘UN - AIR CONDITIONING - AIR-CON. COMPRESSOR CHANGED BY AIR-CON. STAFF A/C U/S.’.
**18.01.1994** Service defect: ‘TW - BOGIE - L5 SLACK ADJUSTER REPAIRED, A/C SIEZED.’.
**18.01.1994** Service defect: ‘TW - COMPANION ALT COVER TO REPLACE, GIVEN TO Q/FIX SUB’.
**18.01.1994** Service defect: ‘TW - BY. A/C CABLING TO BE MOVED.18/1/94.’.
**15.02.1994** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - TUBO LUBE PUMP CONDUIT TAPED UP. HOT PLATE CONDUIT REPLACED WITH ANACONDA.’.
**15.02.1994** Service defect: ‘B - ENGINE PROTECTION - ENGINE PROTECTION DEVICE CHANGED, A/C LEAKING OIL FROM VENT.’.
**15.02.1994** Service defect: ‘B - TRACTION MOTOR BRUSHES - 6 BRUSHES CHANGED ON NO.1 T/M, A/C CONDEMNING LIMIT. 5 ON NO.2 AND 9 ON NO.3.’.
**15.02.1994** Service defect: ‘B - MARMON COUPLING TO OIL STRAINER BOX LEAKING. NIL’.
**15.02.1994** Service defect: ‘B - STOCK OF RUBBERS AT TIME OF SERVICE.15/2/94.’.
**23.02.1994** Service defect: ‘UN - TRACTION MOTOR - NO 6 T/MOTOR REPLACED, A/C EARTH ON INTERPOLES. T/M OUT - DL47 B1 61J-86. TESTED OK.’.
**28.02.1994** Service defect: ‘UN - BOGIE - R3 SLACK

ADJUSTER REPLACED. COUPLING HEAD FOR INDEPENDANT AIR HOSE REPLACED, FLOW METER RECONNECTED.'.

**07.04.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - 3 BRUSHES CHANGED IN NO 1 T/M, 3 BRUSHES CHANGED IN NO 2 T/M12 BRUSHES CHANGED IN NO 5 T/M, A/C SHORT BRUSHES.'.

**07.04.1994** Service defect: 'UN - NO 3 T/M CUT OUT, A/C EARTH IN INTERPOLES.7/4.'.

**09.04.1994** Service defect: 'UN - TRACTION MOTOR EARTH - NO 3 T/MOTOR REPLACED, A/C EARTH ON INTERPOLE. DIRECTION TESTED OK.'.

**28.04.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES REPLACED IN NO 3 T/MOTOR, A/C U/S. COMMUTATOR INNO3 T/M CHECKED OK. NO 1 AND 2 T/M'S CHECKED, ALL BRUSHES OK'.

**03.05.1994** Service defect: 'UN - TRACTION MOTOR - EARTH STRAP ON NO 1 T/MOTOR REPLACED.'.

**03.05.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES ON NO'S 2,3 AND 4 T/MOTORS REPLACED, A/C GR'S.'.

**05.05.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 3 T/MOTOR CLEANED AND REPAIRED, BRUSHES REPLACED,A/C GR'S'.

**10.05.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - GR'S - NO 3 T/M 12 O'CLOCK BRUSH HOLDER REPLACED, A/C BURNT AND BRASS RUBBING ON RISER. LOCO MEGGERED OK. ALL OTHER'.

**12.05.1994** Service defect: 'A - DYNAMIC BRAKE - FAULT FOUND IN DRIVERS/SIDE D/BRAKE EXTENDED RANGE. SPRING RETAINING CLIP FOR COVER FOUND TO BE DAMAGED AND PREVENTING'.

**12.05.1994** Service defect: 'A - ENGINE - TOP DECK COVER HANDLES REMOVED AND RERIVETED WITH A SEALENT TO STOP OIL LEAKING THROUGH THE RIVETS.'.

**16.06.1994** Service defect: 'UN - BOGIE - SHOCKER 'A'END REPLACED. SPRINGS CHECKED OK, TRI-MOUNTS CHECKED OK.'.

**BL 31**

Details: locomotive 'BL 31 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 130.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 29.11.1983
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 12.03.1997 | | |
| Last Lift: | 17.01.1990 | | |
| SW Service Mileage: | 1361095 KM | SW Service Date: | 12.03.1997 |
| A Service Mileage: | 1356115 KM | A Service Date: | 01.03.1997 |
| B Service Mileage: | 1080828 KM | B Service Date: | 10.10.1995 |
| C Service Mileage: | 952403 KM | C Service Date: | 24.01.1995 |
| D Service Mileage: | 1247633 KM | D Service Date: | 01.09.1996 |
| E Service Mileage: | 750569 KM | A Service Date: | 18.02.1994 |
| F Service Mileage: | 0 KM | A Service Date: | 17.01.1990 |
| WT Service Mileage: | 610647 KM | WT Service Date: | 31.05.1993 |
| US Service Mileage: | 1336404 KM | A Service Date: | 30.01.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**04.07.1989** Service defect: 'TS - GENERAL LOSS OF POWER - BOOKED FOR LOSS OF POWER.CHECKED FOR LOOSE MODULES,OK.CHECK-ED IN POWER,OK.RADER CHECKED OK.NO FAULT APPARENT.'.

**13.07.1989** Service defect: 'UN - BOGIE - NO3 GEARCASE TIGHTENED.ALL GEARCASES TOPPED UP WITH TMGL.'.

**14.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - 'A'END LHS BOLSTER WEAR PLATE REPLACED A/C MISSING.'.

**19.07.1989** Service defect: 'UN - DYNAMIC BRAKE - GROUND RELAY IN D/BRAKE.BROKEN & BURNT BRUSHES IN NO5 TM REPLACED.'.

**01.08.1989** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END EQU/BC GAUGE CHANGED.ALL AIR GAUGES CHECKED AGAINST MASTER GAUGE.'.

**24.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ELECTRICAL CABINET DOORS BOOKED FOR AIR LEAKS.ALL CABINET DOOR SEALS INTACT.'.

**29.08.1989** Service defect: 'UN - DYNAMIC BRAKE - G/RELAY IN D/BRAKE.MOTORS CHECKED,OK.GRIDS OK.HAD LOCKED POWER WHEEL LIGHT ON.RESET & CHECKED.'.

**19.09.1989** Service defect: 'UN - BOGIE - BOTH 'B' BOGIE TRI-MOUNT WEAR PADS REPLACED.'.

**04.10.1989** Service defect: 'SW - BATTERY MAINTENANCE - NICKLE CADMIUM BATTERIES FITTED FOR TESTING.'.

**04.10.1989** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - BR/DIM SWITCH &'A'END HEADLIGHT SWITCH CHANGED A/C BOTH FAILED.'.

**04.10.1989** Service defect: 'SW - TRACTION MOTOR - NO5 TM COMM GROUND.'.

**10.10.1989** Service defect: 'UN - EXHAUST - CRACK IN EXHAUST MANIFOLD WELDED.'.

**10.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO ARMATURE REPLACED.SPEED RECORDER REPLACED.'.

**24.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES CLEARED A/C WET SAND.'.

**24.10.1989** Service defect: 'UN - L1 SAND BOX CRACKED'.

**24.10.1989** Service defect: 'UN - SAND TRAP CRACKED'.

**17.01.1990** Service defect: 'F - COOLING SYSTEM RADIATOR - WATER PUMPS O/HAULED. MECHANICALLY BONDED RADIATORS FITTED. MARKER LIGHT, COUPLING LIGHT AND SPEED RECORDER WIRING'.

**17.01.1990** Service defect: 'F - ELECTRICAL MISCELLANEOUS - MODIFICATION COMPLETED. ELECTRICAL PRESSURISING FAN

REMOVED.PRESSURISING FAN CANOPY ALTERATION COMPLETED 'A' END.'.

**17.01.1990** Service defect: 'F - ENGINE - BEARINGS. TOP DECK SEATS MACHINED. BOTH OIL PUMPS O/HAULED (LUBE OIL PUMP MODIFIED). VALVE BRIDGES RECONDITIONED. ALL'.

**17.01.1990** Service defect: 'F - ENGINE - CARRIER INSERTS RENEWED. CRAB PLATES INSTALLED. NO. TWO PRESSURISING FAN REMOVED. NEW PISTONS, HEADS AND LINERS.'.

**17.01.1990** Service defect: 'F - ENGINE - ENGINE EX BL 30 SERIAL NO. 84-E1-1052 INTO BL 31. ALL NEW ROCKER ASSEMBLY BEARINGS, MAIN, BIG END AND CAMSHAFT'.

**17.01.1990** Service defect: 'F - OTHER BODY REPAIRS - 'A' END SIDE WINDOWS REPLACED.(TINTED GLASS).'.

**26.01.1990** Service defect: 'UN - GENERAL - HEAD PROTECTION RUBBER ABOVE AIR FILTERS REPLACED.'.

**30.01.1990** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV BOOKED FAULTY.D TYPE MAGNET VALVE FITTED A/C WRONG TYPE FITTED.'.

**05.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MAIN STARTING CONTACTOR WORKED ON,UNABLE TO REPAIR,WILL BE REPAIRED ON RETURN TRIP.'.

**08.02.1990** Service defect: 'UN - AUXILLARY MACHINES - BOTTOM STARTER MOTOR CHANGED.'.

**09.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO1 END INDEPENDENT BRAKE VALVE REPLACED A/C LEAKING.'.

**15.02.1990** Service defect: 'UN - GENERAL - CAB MODIFICATIONS COMPLETED.'.

**12.04.1990** Service defect: 'SW - BOGIE MAINTENANCE - BOLSTERS - BOGIE BOLSTER MODIFICATION COMPLETED.'.

**12.04.1990** Service defect: 'SW - GENERAL - 'V' LINE'THROUGH WORKING'MODIFICATIONS MADE.'.

**12.04.1990** Service defect: 'SW - GENERAL ACCIDENT - ACCIDENT REPAIRS INCLUDING FUEL TANK AND BOGIE REPAIRS DUE TO DE-RAILMENT IN VICTORIA.'.

**12.04.1990** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVES, DELIVERY PIPES , PIPED TO L1, R1, R3, R6.'.

**12.04.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE DUPLICATION COMPLETED. (MR & BP)VENTURI RELOCATED'.

**12.04.1990** Service defect: 'SW - TRACTION MOTOR - CABLE REPAIRED ON NO. 1 TRACTION MOTOR. COVER REPLACED ON NO1 TRACTION MOTOR A/C ACCIDENT DAMAGE.'.

**12.04.1990** Service defect: 'SW - VIGILANCE - ELECTRIC VIGILANCE MODIFIED FOR DAY/NIGHT WORKING.'.

**12.04.1990** Service defect: 'SW - FUEL TANK SIGHT GLASS ON RHS TO REPLACE.'.

**16.04.1990** Service defect: 'UN - BOGIE - BRAKES ADJUSTED,TEST COCK GLAND NUTS TIGHTENED.'.

**16.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - DUMMY COUPLINGS REPLACED.'.

**30.04.1990** Service defect: 'SW - BOGIE - BOGIES CHANGED.'.

**30.04.1990** Service defect: 'SW - TRACTION MOTOR - ALL TM'S CHANGED.(IN 81E1-1244,81L1-1026,81E1-1240,81G1-112881L1-1128,81M1-1215).'.

**30.04.1990** Service defect: 'SW - F/MANS SIDE NO1 END HEATER ELEMENT TO REPLACE.30/4'.

**02.05.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DR MODULE SERIAL NO.82-A1-1003 INSTALLED. EX BL33.'.

**02.05.1990** Service defect: 'UN - EN104 MODULE SERIAL NO.87-F1-1007 MODULE TO MON-'.

**02.05.1990** Service defect: 'UN - ITOR.2/5'.

**09.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES COCK 'B'END REPLACED.RELAY VALVE REPLACED.MAIN RES LEAK TO DRIER REPAIRED.'.

**09.05.1990** Service defect: 'UN - ELECTRONIC CONTROL UNIT REMOVED FROM AIR DRYER'.

**09.05.1990** Service defect: 'UN - REPLACEMENT REQUIRED.9/5*'.

**10.05.1990** Service defect: 'UN - TRIAL RUN MONDAY 14.05.1990'.

**24.05.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.CHECKED IN DEPOT,UNABLE TO FAULT.'.

**31.05.1990** Service defect: 'SW - DG 101 MODULE NO B1-G1-1086 TO MONITOR.'.

**04.06.1990** Service defect: 'SW - SIDE BLINDS TO FIT.'.

**13.06.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - LOW POWER LIGHT BOOKED ON,SUSPECT FAULT IN LC MODULE,NIL SPARES,LOCO POWER CHECKED OK.'.

**29.06.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSS OF POWER.RE6A RESISTOR FAULTY,SWAPPED WITH RE6B RESISTOR A/C NIL STOCK.'.

**29.06.1990** Service defect: 'UN - RE6A RESISTOR TO REPLACE.29/6*'.

**19.07.1990** Service defect: 'UN - FUEL SYSTEM - FUEL TANK GAUGE RHS REPLACED.'.

**19.07.1990** Service defect: 'UN - GENERAL SHUTDOWN - BOOKED FOR SHUTTING DOWN.OVERSPEED,OIL & WATER CHECKED OK.'.

**27.07.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - SUPER SERIES FAULTY. FM, EN, SW, RA. MODULES QUALIFIED. NO FAULT FOUND IN DEPOT.'.

**10.11.1990** Service defect: 'UN - BOGIE - 'B'END BOGIE SIDE BEARER PLATE REPLACED.'.

**07.12.1990** Service defect: 'UN - BOGIE - BRAKES ADJUSTED.'.

**22.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - TRIMOUNT PADS CHANGED'.

**08.02.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - GR'S IN NOS 2 @ 3 TM'S A/C PIGTAILS.SEVEN BRUSHES REPLACED *'.

**12.02.1991** Service defect: 'SW - BATTERIES TO CHANGE'.

**13.02.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L1,L5,L6 WICKS CHANGED'.

**13.02.1991** Service defect: 'C - PEE PIPE - NO 8 PEE PIPE REPLACED'.

**13.02.1991** Service defect: 'C - TRACTION MOTOR FLASHOVER - NO 2 TM CLEANED A/C GROUND RELAYS'.

**20.02.1991** Service defect: 'UN - CONTACTOR EP VALVES - MAGNET VALVE REPLACED.'.

**28.03.1991** Service defect: 'UN - OTHER BODY REPAIRS - A

END DRIVERS WINDSCREEN REPLACED,V/LINE CUSHIONS REPLACED.'.

**28.03.1991** Service defect: 'SW - 'A' END DRIVER'S SIDE FRONT WINDSHIELD TO REPLACE'.

**28.03.1991** Service defect: 'SW - AT M.P.C.'.

**13.05.1991** Service defect: 'UN - BOGIE - 4 TRIMOUNT RUBBERS REPLACED, 'A'END D/SIDE BOLSTER WEAR PAD REPLACED.'.

**03.06.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - LOCO CHECKED FOR FLATS,OK FOR RELEASE TO TRAFFIC.'.

**03.06.1991** Service defect: 'A - LUBRICATING SYSTEM - MAIN LUBE PUMP FITTING RESEALED WITH THREAD TAPE,A/C OIL LEAK.'.

**03.06.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L2 & L3 SANDERS CLEARED,A/C WET SAND.'.

**27.07.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - REPLACED 9 BRUSHES IN NOS 2 & 5 T/M'S,A/C BURNT PIGTAILS & TOO SHORT.'.

**14.08.1991** Service defect: 'B - AUXILLARY MACHINES - AUX GEN MOUNTING BOLT WELDED A/C BROKEN.'.

**14.08.1991** Service defect: 'B - LUBRICATING SYSTEM - THREE MICHIANA FILTERS CHANGED A/C BLOWN APART FROM PRESSURE'.

**14.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - R1,L1,L3 SANDERS CLEARED.'.

**14.08.1991** Service defect: 'B - VIGILANCE COVERS 'A @ B' END MISSING.'.

**21.10.1991** Service defect: 'SW - GENERAL - BLIND REPAIRED.'.

**21.10.1991** Service defect: 'SW - TRACTION MOTOR - NO 1 T/MOTOR RELUGGED WITH SOLDER.'.

**25.10.1991** Service defect: 'A - AIR CONDITIONING - A/CONDITIONER COMPRESSOR CABLE REPLACED,A/C RUBBED THROUGH CAUSING LOW TENSION EARTH.'.

**25.10.1991** Service defect: 'A - 'B'END BOGIE DUST SEAL TO REPLACE.25/10.'.

**14.01.1992** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT CHANGED.-LOCO TESTED OK.'.

**24.01.1992** Service defect: 'D - DYNAMIC BRAKE - REPLACED LOOSE LUG ON DYN RHEOSTAT 'A'END.RHEOSTAT WIPE CHECKED OK.'.

**24.01.1992** Service defect: 'D - ELECT. MISC. - GAUGES & INSTRUMENTS - REPLACED 2 BROKEN GAUGE LIGHT HOLDERS,DRIVERS GAUGES 'A'& 'BEND.'.

**24.01.1992** Service defect: 'D - GENERAL UNABLE TO LIFT LOAD - EXTENDED RANGE SEQUENCE OK,UNABLE TO LIFT LOAD UNTIL NOTCH 6'.

**24.01.1992** Service defect: 'D - TRACTION MOTOR FLASHOVER - FLASHOVER NO 5 & 6 T/MOTOR, BURNT PIGTAILS, CLEANED,BRUSHESREPLACED.'.

**24.01.1992** Service defect: 'D - 'B'END MIRROR TO REPLACE WHEN AVAILABLE.24/1.'.

**11.02.1992** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CHECKED & REPAIRED,A/C UNABLE TO LIFT LOAD.'.

**13.02.1992** Service defect: 'SW - BOGIE - BOGIES CHANGED.IN A END 1876.B END 1887.'.

**13.02.1992** Service defect: 'SW - ELECTRICAL MAINTENANCE - REVERSER - REVERSER REPARED A/C FAULTY.'.

**13.02.1992** Service defect: 'SW - ELECTRICAL MISC. AC/DC RELAYS - RELAY REPLACED A/C FAULTY.DIRECTION TEST OK.'.

**13.02.1992** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED AND TESTED,OK.'.

**23.03.1992** Service defect: 'UN - BATTERY MAINTENANCE - NI-CAD BATTERIES RECHARGED.'.

**23.03.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO.4 T/M BRUSH HOLDER REPLACED.-BRUSHES REPLACED A/C SHORT.'.

**16.04.1992** Service defect: 'TS - TRACTION MOTOR - NO 4 T/MOTOR REPLACED,A/C BADLY SCORED COMMUTATOR DUE TO BOLT FALLING OUT OF BACK BRUSH HOLDER CONNECTION.T/M IN -'.

**21.04.1992** Service defect: 'A - GENERAL - D/SIDE SEAT 'A'END REPLACED.'.

**19.06.1992** Service defect: 'SW - AUXILLARY MACHINES - AUXILLARY GEN. BOLTS REPLACED.A/C CRACKED.'.

**19.06.1992** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - T/M CUT-OUT MODS. COMPLETED.'.

**19.06.1992** Service defect: 'SW - NO FAULT FOUND - NO INTERNAL WATER LEAK COULD BE FOUND.-MINOR WATER LEAKS REPAIRED PRIOR TO INTERNAL INSPECTION.'.

**19.06.1992** Service defect: 'SW - OTHER BODY REPAIRS - 'B' END PACKAGE POCKET REWELDED. A/C WORN. 'A' AND 'B' END PACKAGES AND COUPLERS REPLACED.'.

**07.07.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 'A'END HEATER ELEMENT REPLACED.'.

**07.07.1992** Service defect: 'B - TRACTION MOTOR - T/M BRUSH HOLDER REPLACED IN NO.2 T/M.A/C U/S. BOTTOM.'.

**13.07.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES RECHARGED WITH BATTERY CHARGER.-LOCO STARTED OK.'.

**08.09.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - 'A' END H/LIGHT CHANGED TO 70 VOLT - 350 WATT GLOBES.'.

**08.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - 'A' END DRIVERS WINDSCREEN REPLACED A/C CRACKED.'.

**12.10.1992** Service defect: 'UN - BOGIE - R2 & R3 SPRINGS REPLACED.'.

**12.10.1992** Service defect: 'UN - BOGIE - R6, L5 & R4 AXLE BOX SPRINGS REPLACED,A/C BROKEN.'.

**12.10.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE WIRING MOD DONE.'.

**12.10.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT MOD 'B' END.'.

**12.10.1992** Service defect: 'UN - AIR FRIDGE DISCONNECTED.12/10.'.

**23.11.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FUEL PRIME/START SWITCH REPLACED.'.

**23.11.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED, A/C OPEN CIRCUIT. LOCO LOSING POWER'.

**23.11.1992** Service defect: 'UN - 'A'END PACKAGE U/S.23/11.'.

**30.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END PACKAGE REPLACED, A/C PACKAGE

EXPLODED.'.
**30.11.1992** Service defect: 'UN - TRIMOUNT PADS TO REPLACE.30/11.'B' END PACKAGE TO'.
**30.11.1992** Service defect: 'UN - MONITOR.30/11.'.
**22.12.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN.BRAKE QUALIFICATION COMPLEATED ALL MODS.OK. GRIDS AND FAN TESTED UNDER LOAD OPPERATION'.
**22.12.1992** Service defect: 'UN - L.E.D.ON ANNUCIATOR PANEL NOT WORKING.'.
**05.01.1993** Service defect: 'A - MECHANICAL EQUIPMENT - AIR DRIER FILTER REPLACED, AIR DRIER FITTING REPLACED. EDUCTOR TUBE REPLACED.'.
**05.01.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVES REPLACED.'.
**05.01.1993** Service defect: 'A - PEE PIPE - NO 14 PEE PIPE REPLACED, A/C BROKEN.'.
**05.01.1993** Service defect: 'A - MIDDLE BRAKE GRIDS ON D/S STARTING TO BUCKLE, TO'.
**05.01.1993** Service defect: 'A - MONITOR.5/1.'.
**12.03.1993** Service defect: 'UN - TRACTION MOTOR - NO 1 T/MOTOR BRUSHED & HOOKED OUT, A/C BRUSHES TOO SHORT & DAMAGED COM.'.
**12.03.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED IN NO 6 T/M, 6 BRUSHES CHANGED IN NO 5, 2 BRUSHES CHANGED IN NO 2, A/C ALL TOO SHORT.'.
**26.03.1993** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV ADJUSTED, CHECKED OK.'.
**26.03.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - R1 SANDER CLEARED.'.
**26.03.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END M.R. HOSE,OBS SIDE REPLACED.'.
**26.03.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - NO 4 T/M BRUSH HOLDER HEIGHT ADJUSTED,A/C CLOSE TO COMM.'.
**26.03.1993** Service defect: 'C - TRACTION MOTOR FLASHOVER - NO 1 T/M RISER, BINDER & COMMUTATOR CLEANED, A/C HIGH DEPOSIT OF CARBON, T/M FLASHED.'.
**26.03.1993** Service defect: 'C - VIGILANCE - VIGILANCE GAUGE LEAK REPAIRED.'.
**12.04.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED. 'B'END D/SIDE TRI-MOUNT SLIDE WEARPAD REPLACED.'.
**12.04.1993** Service defect: 'SW - GENERAL - MIRROR REPLACED.'.
**24.04.1993** Service defect: 'UN - ALTERNATOR - ALTERNATOR CLEANED OF OIL,MEGGER READING STILL VERY LOW-ONLY30,000 OHMS TO EARTH.'.
**24.04.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED,ENGINE ROOM CLEANED OUT AND ALTERNATOR AREA CLEANED OUT.'.
**24.04.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.6 TOP BRUSHHOLDER REPLACED A/C BURNT.'.
**29.04.1993** Service defect: 'UN - DYNAMIC BRAKE - 1 DYN/BRAKE GRID REPLACED. LOCO SENT ON TRIAL RUN,LOCO OK.'.
**29.04.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT REPLACED(EX DL 45).'.
**29.04.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - EN MODULE REPLACED.'.
**10.05.1993** Service defect: 'SW - OTHER BODY REPAIRS - DRIVERS SIDE STEPS REPAIRED. STAIGHTENED AND SHORTENED..'.
**28.05.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE MICRO SWITCH REPLACED A/C U/S.'.
**02.06.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - FG MODULE EX BL30 FITTED TO THIS LOCO TO SEE IF GRID OVER- CURRENT FOLLOWS MODULE.'.
**15.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 'A'END SAND FILLER CAPS REPLACED.'.
**26.06.1993** Service defect: 'A - BOGIE - L6 SUPPORT BEARING BOLT CHANGED.'.
**26.06.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L4 & R4 WICK OILS CHANGED,A/C DIRTY.'.
**26.06.1993** Service defect: 'A - ENGINE - LHS TOP DECK COVER SUPPORT BRACKET REPAIRED.'.
**26.06.1993** Service defect: 'A - L3 SUPPORT BEARING TO MONITOR,A/C SMALL REFLECTION'.
**26.06.1993** Service defect: 'A - ON AXLE.26/6.'.
**05.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - SHOCK PROOF WINDSCREEN MODS COMPLETED.'.
**05.07.1993** Service defect: 'UN - BOTH CAB SEATS TO REPLACE.NIL IN STOCK.5/7/1993.'.
**02.08.1993** Service defect: 'UN - BOGIE - TRI-MOUNT RUBBER REPLACED, A/C SPLIT.'.
**02.08.1993** Service defect: 'UN - GENERAL - NEW SEATS FITTED.'.
**22.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS AROUND STRAINER BOX REPAIRED.'.
**22.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - ALTERNATOR AND SURROUNDS CLEANED. ENGINE ROOM STEAM CLEANEDA/C OIL LEAKS.'.
**31.08.1993** Service defect: 'UN - BOGIE - TRI-MOUNT RUBBERS REPLACED. BOLSTER PADS REPLACED. SHOCKER REPLACED.'.
**31.08.1993** Service defect: 'UN - ENGINE - TOP DECK SEALS REPLACED, HEADFRAME TO CRANKCASE BOLTS RETIGHTENED.'.
**31.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE ROOM OIL PRESSURE GAUGE REPLACED.'.
**13.09.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L4 WICK CHANGED. WICK OILS CHANGED.'.
**13.09.1993** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - REFITTED TB TEMP SWITCH, A/C FELL OFF. CHECKED FAN WORK OK.'.
**13.09.1993** Service defect: 'B - FLOOR/AIR HEATERS - REPLACED HEATER ELEMENT.'.
**16.09.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - REVERSER - BOTTOM MICRO SWITCH REPLACED 'B'END, A/C UNABLE TO GET REVERSE.'.
**16.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - 'A'END AUTO BRAKE VALVE CHANGED.'.
**12.10.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATED. T/M'S CHECKED AND ALL T/M BRUSHES CHANGED'.
**12.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FOUND TEST POINT WIRE LOOSE AND EARTHING ONTO FRAME.'.
**01.11.1993** Service defect: 'UN - DYNAMIC BRAKE -

DYN/BRAKE POT REPLACED 'B'END. MICRO SWITCH CHECKED ON D/B OK. DYN/BRAKE CHECKED.'.

**01.11.1993** Service defect: 'UN - GENERAL - SERVICE WATER TANK REMOVED & 2 LEAKS WELDED. TANK REFITTED.'.

**01.11.1993** Service defect: 'UN - OTHER BODY REPAIRS - SIDE PORT HOLE WINDOW REPLACED.'.

**06.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RE6A RESISTOR REPLACED, A/C OPEN CIRCUITED. CHECKED OK.'.

**06.11.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR HIGH PRESSURE HEAD GASKET CHANGED, A/C WATER LEAKCHECKED OK.'.

**15.11.1993** Service defect: 'UN - GENERAL - 'B'END ENGINE ROOM DOOR HINGES REPAIRED, DOOR FRAME REWELDEDFIREMANS SIDE WINDOW 'A'END, BOLTS TIGHTENED ON SPRING'.

**29.11.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R4 + L4 WICKS CHANGED.'.

**29.11.1993** Service defect: 'A - RUST AROUND NUMBER LIGHTS.29/11.'.

**11.12.1993** Service defect: 'UN - ENGINE - ENGINE PROTECTION DEVICE REPLACED.'.

**11.12.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL LEAK REPAIRED. 45PSI IN NOTCH 8 AND 40PSI INIDLE.'.

**11.12.1993** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED AND TIMED.'.

**28.12.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - REPLACED 9 BRUSHES IN NO.5 T/M. REPLACED 9 BRUSHES IN NO.6 T/M, A/C SHORT.'.

**10.01.1994** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.

**10.01.1994** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR CHANGED, A/C WOULD NOT HOLD OIL. SEALS U/S.'.

**27.01.1994** Service defect: 'UN - AIR CONDITIONING - AIR-COND MOTOR AND COMPRESSOR TO REPLACE ASAP.'.

**18.02.1994** Service defect: 'E - BOGIE - L3 SLACK ADJUSTER REPAIRED, A/C SEIZED.'.

**18.02.1994** Service defect: 'E - PEE PIPE - NO'S 9, 10 & 13 PEE PIPES CHANGED, A/C BROKEN.'.

**04.03.1994** Service defect: 'TW - TRACTION MOTOR BRUSHES - 6 BRUSHES CHANGED IN NO 1 T/MOTOR, A/C BURNT PIGTAILS. 6 BRUSHES CHANGED IN NO 2 T/MOTOR, A/C TOO SHORT.'.

**04.03.1994** Service defect: 'TW - 'B'END PACKAGE TO MONITOR.4/3.'.

**12.03.1994** Service defect: 'UN - BOGIE - PACKAGE AND COUPLER REPLACED ON 'B' END.'.

**24.03.1994** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE CHECK OK.'.

**24.03.1994** Service defect: 'UN - TRACTION MOTOR - NO 2 T/MOTOR REPLACED, A/C INTERPOLE TO EARTH. DIRECTION TESTED OK.'.

**19.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END CARRIER PLATE REPAIRED.'.

**17.05.1994** Service defect: 'A - BOGIE - L5 AXLE BOX WEAR PLATE REPLACED, A/C MISSING.'.

**17.05.1994** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3 WICK AND OIL CHANGED.'.

**17.05.1994** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED.'.

**BL 32**

Details: locomotive 'BL 32 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 06.02.1984
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 29.04.1997 | | |
| Last Lift: | 28.11.1990 | | |
| SW Service Mileage: | 1083581 KM | SW Service Date: | 29.10.1996 |
| A Service Mileage: | 989334 KM | A Service Date: | 12.04.1996 |
| B Service Mileage: | 1045284 KM | B Service Date: | 10.07.1996 |
| C Service Mileage: | 886584 KM | C Service Date: | 12.10.1995 |
| D Service Mileage: | 363212 KM | D Service Date: | 20.01.1993 |
| E Service Mileage: | 709492 KM | A Service Date: | 05.11.1994 |
| F Service Mileage: | 993439 KM | A Service Date: | 28.11.1990 |
| WT Service Mileage: | 609146 KM | WT Service Date: | 18.05.1994 |
| US Service Mileage: | 1191648 KM | A Service Date: | 29.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**04.07.1989** Service defect: 'UN - TRACTION MOTOR - NO 2,5,6 TM'S GROUND.'.

**06.07.1989** Service defect: 'A - NO 6 WHEEL CHANGE'.

**10.07.1989** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO6 WHEELSET CHANGED.'.

**10.07.1989** Service defect: 'SW - TRACTION MOTOR - NO6 TM CHANGED A/C PINION & GEAR WORN.(IN 81E11241 OUT 81H11008).'.

**11.07.1989** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - NO 6 WICK CHECKED OK.'.

**11.07.1989** Service defect: 'SW - GENERAL - F/MANS SIDE WINDOW REPLACED A/C BROKEN.'.

**12.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO6 WICK CHECKED OK.'.

**12.07.1989** Service defect: 'UN - DYNAMIC BRAKE - FAULT LIGHT BOOKED COMING ON WHEN USING D/BRAKE.DP MODULE QUALIFIED 7 OK.'.

**19.07.1989** Service defect: 'UN - ENGINE - ENGINE SHUT DOWN 3 TIMES.ENGINE & GOV OIL LEVELS OK,OIL PRE-SSURES OK,WATER OK,CRANKCASE PRESSURE OK.'.

**24.07.1989** Service defect: 'UN - BOGIE - 'A'END TRIMOUNT SHOCKER REPLACED.'.

**24.07.1989** Service defect: 'UN - L5 PEDESTAL LINER TO REPLACE(PLASTIC).24/7.'.

**31.07.1989** Service defect: ‘UN - ALTERNATOR - ALTERNATOR BRUSHES CHANGED.’.
**31.07.1989** Service defect: ‘UN - TRACTION MOTOR FLASHOVER - ALL BRUSHES CHANGED IN NO6 TM A/C FLASHOVER,TM CLEANED.’.
**02.08.1989** Service defect: ‘UN - TRACTION MOTOR FLASHOVER - 3 BRUSHES REPLACED IN NO3 TM PIGTAILS HANGING.’.
**18.08.1989** Service defect: ‘UN - GENERAL - DRIVERS SIDE WINDOW REPAIRED ‘A‘END.’.
**22.08.1989** Service defect: ‘UN - WHEELSLIP - BOOKED FOR WHEELSLIP.SANDBOX NO2 EMPTY.3 SAND PIPES BLOCKED,CLEARED.’.
**08.10.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - ‘A‘END SPEEDO ARMATURE TOP CONNECTION PLATE REPLACED.’.
**08.10.1989** Service defect: ‘UN - TRACTION MOTOR FLASHOVER - 1 BRUSH CHANGED IN NO1 TM A/C SLIGHT FLASH.’.
**25.10.1989** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES CLEARED A/C BLOCKED.’.
**11.11.1989** Service defect: ‘A - PEE PIPE - NO 14 PEE PIPE REPLACED.’.
**22.11.1989** Service defect: ‘UN - BOGIE MAINTENANCE - SPRINGS - R5 SPRING REPLACED A/C BROKEN.’.
**07.12.1989** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR FLAT WHEELS.SENT TO W T M FOR ATTENTION.’.
**07.12.1989** Service defect: ‘UN - LOOSE GEAR CASES.7/12.’.
**20.12.1989** Service defect: ‘UN - ELECTRICAL MISC. MODULES - EL MODULE QUALIFIED.’.
**20.12.1989** Service defect: ‘UN - TRACTION MOTOR FLASHOVER - NO2 & 6 TM’S CLEANED A/C SLIGHT FLASH.’.
**05.01.1990** Service defect: ‘UN - ENGINE GOVERNOR MECHANICAL - WATER CHECKED OK. ENGINE OIL LEVEL CHECKED OK.GOV OIL LEVEL CHECKED OK & TOPPED UP.NO FAULT FOUND.’.
**10.01.1990** Service defect: ‘UN - OTHER BODY REPAIRS - REPLACED FLOOR PANEL.’.
**31.01.1990** Service defect: ‘UN - GENERAL LOSS OF POWER - BOOKED FOR LOSING POWER.CHECKED,NO FAULT FOUND.’.
**09.02.1990** Service defect: ‘UN - BOGIE - NEW CENTRE RING REPLACED IN ‘B‘END BOGIE.’.
**24.02.1990** Service defect: ‘UN - TRACTION MOTOR - NO4 TM CHANGED A/C EXCESSIVE END PLAY.(IN 70B11285 OUT 81M11027).’.
**05.03.1990** Service defect: ‘UN - BOGIE - ‘B‘BOGIE TRI-MOUNT LUG REPAIRED.’.
**07.03.1990** Service defect: ‘UN - GENERAL - ‘A‘END F/MANS WINDOW REPAIRED.’.
**06.04.1990** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - AIR CONDITIONING REPAIRED.’.
**10.04.1990** Service defect: ‘UN - GENERAL LOSS OF POWER - BOOKED FOR LOSS OF POWER.CHECKED IN DEPOT,NO FAULT FOUND.’.
**09.05.1990** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - NO1 WHEEL SET REPLACED A/C CONDEMNED WHEELS.’.
**09.05.1990** Service defect: ‘UN - TRACTION MOTOR - NO1 TM CHANGED A/C WHEEL CONDEMNED WHEELS.(IN 81-E1-1252 OUT81-E1-1242).’.
**09.05.1990** Service defect: ‘UN - TEST COCKS BLOWING’.
**10.05.1990** Service defect: ‘UN - ENGINE - TEST COCKS BOOKED FOR BLOWING.CHECKED OK.’.
**30.05.1990** Service defect: ‘B - NO 3 RAD FAN PLUG TO RENEW,RN 30/5’.
**05.06.1990** Service defect: ‘WT - TO MILE END FOR BRAKE ADJUST’.
**12.06.1990** Service defect: ‘UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN REMOVED.’.
**20.06.1990** Service defect: ‘UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN INSTALLED.’.
**09.07.1990** Service defect: ‘WT - NO 3 WHEEL REQUIRES EXAMINING A/C SHOWING SCORES’.
**09.07.1990** Service defect: ‘WT - AND CRACKS AFTER TURNING’.
**13.07.1990** Service defect: ‘UN - GENERAL LOSS OF POWER - WIRES SWAPPED FROM RE6A RESISTOR TO RE6B A/C RE6A FAULTY.’.
**13.07.1990** Service defect: ‘UN - RE6A RESISTOR TO REPLACE.13/7’.
**23.07.1990** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - EARTH ON V/LINE RADIO FEED.RETURNED TO V/LINE TO BE DISCONN-ECTED.’.
**31.07.1990** Service defect: ‘A - AUXILLARY MACHINES - D/BRAKE MOTOR CHANGED.’.
**28.11.1990** Service defect: ‘F - DYNAMIC BRAKE - AUX. ALT. OVERHAULED. COUPLING LIGHTS, CLIP BOARD AND TWO MAN CREW CABINET FITTED. V/LINE UNDER ALTERNATOR AND BOLSTER’.
**28.11.1990** Service defect: ‘F - DYNAMIC BRAKE - MOD. FITTED.’.
**28.11.1990** Service defect: ‘F - ENGINE - (ORIGINAL PARTS REPLACED - CONROD FORKS/BLADES. PISTON PINS /CARRIERS. HARMONIC BALANCER. CAMSHAFT GEARS. TURBO DRIVE’.
**28.11.1990** Service defect: ‘F - ENGINE - ALL HEAD SEATS MACHINED. MAIN BEARINGS AND CONROD BEARINGS RENEWED. NEW 1,000,000 MILE POWER ASSEMBLIES FITTED. VALVE’.
**28.11.1990** Service defect: ‘F - ENGINE - BRIDGES KORODY COLLIER INSTALLED. NEW CARRIER BEARING INSERTS. NEW CAMSHAFT BEARINGS.’.
**28.11.1990** Service defect: ‘F - ENGINE - CRAB PLATES INSTALLED. ORIGINAL TURBO WITH TEST (SPRAG CLUTCH) AND (GLOBE) (NOZZLE RING). MECH BONDED RADIATORS’.
**28.11.1990** Service defect: ‘F - ENGINE - ENGINE EX BL 35D SERIAL NUMBER 81J1-1113 MODEL 645E3B INTO BL 32. THIS IS 1,000,000 MILE ENGINE.’.
**28.11.1990** Service defect: ‘F - ENGINE - FITTED. DYNAMIC BRAKE AND RADIATOR FANS OVERHAULED. TRACTIONMOTOR CUTOUT SWITCH AND SELF LOAD FITTED.’.
**28.11.1990** Service defect: ‘F - ENGINE - GEAR. IDLER AND STUBSHAFT GEARS. CRANKSHAFT. CAMSHAFTS.) SCAVENGING OIL PUMP OVERHAULED. MAIN LUBE OIL PUMP MODIFIED.’.
**28.11.1990** Service defect: ‘F - ENGINE - WATER PUMPS OVERHAULED AND PINNED. MAIN BEARING CAPS OK. NEW INSERTS LOWER LINER. NEW ROCKER ROLLER BUSHES.’.
**05.12.1990** Service defect: ‘SW - GENERAL - ‘F‘SERVICE COMPLETED.’.
**11.12.1990** Service defect: ‘UN - ELECTRICAL MISC.

GROUND RELAY - CHECKED IN DEPOT, NO FAULT FOUND.'.

**20.12.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR CHANGE COMPLETED.'.

**10.01.1991** Service defect: 'UN - NO FAULT FOUND - LOCO BOOKED FOR DROPPING LOAD IN POWER AND DYNAMIC.LOCO TRACK TESTED OK.'.

**03.02.1991** Service defect: 'UN - BOGIE - L1 BOGIE WEAR PLATES REPLACED.'.

**06.02.1991** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONING REGASSED AND REPAIRED,TESTED OKAY IN DEPOT*'.

**07.03.1991** Service defect: 'UN - AIR CONDITIONING - NEW COMPRESSOR FITTED TO AIR COND.'.

**04.04.1991** Service defect: 'UN - BOGIE - ROUGH RIDING - 'B' END TRI MOUNT RUBBER PADS REPLACED A/C RUBBER BADLY FRAYED.'.

**04.04.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY - NO2 T/MOTOR CABLE REINSULATED AND LOCO MEGGERED AND TESTED IN YARD OK.'.

**04.04.1991** Service defect: 'UN - 'A' END TRI MOUNT RUBBER PAD TO REPLACE A/C NIL IN'.

**04.04.1991** Service defect: 'UN - STOCK.'.

**26.04.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 'A' END HEATER ELEMENTS REPLACED ON O/SIDE.'.

**26.04.1991** Service defect: 'A - LUBRICATING SYSTEM - MICHIANNA AND TURBO OIL FILTERS REPLACED.'.

**02.05.1991** Service defect: 'UN - TRACTION MOTOR - NO 1 T/MOTOR CHANGED,A/C HOT CONNECTION ON T/M CABLE. OUT,81E1-1253 IN,81-F1-1241.'.

**22.05.1991** Service defect: 'UN - DYNAMIC BRAKE - D/B OPERATION CHECKED OK'.

**22.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRING REPAIRED NO.1 END HEATER.WIRE REPLACED WIRE T/B 33'.

**22.05.1991** Service defect: 'UN - GENERAL LOSS OF POWER - A END GENERATOR FIELD SWITCH REPLACED'.

**22.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED'.

**22.05.1991** Service defect: 'UN - OTHER BODY REPAIRS - DOOR LOCKS LUBRICATED NO.1 END.'.

**12.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SPEEDO CHECKED OK ON TRIAL RUN.'.

**12.06.1991** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS UNBLOCKED.'.

**05.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BALLAST WIRING REPLACED, A/C BURNT.BALLAST REPLACED,A/C U/S.'.

**12.07.1991** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - 'A'END CONTROL STAND SWITCH REPAIRED.'.

**12.07.1991** Service defect: 'B - VIGILANCE - VIG 'FLIP FLOP'CHECKED OK.VIG FLASHING LIGHTS FIXED.'.

**22.07.1991** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - CURRENT REGULATOR REPLACED,A/C SPEEDO NOT WORKING,NO 1 END.'.

**20.08.1991** Service defect: 'UN - BOGIE - ALL TRIMOUNT RUBBERS REPLACED,ALL BOLSTERS RUBBERS REPLACED,BOTH TRIMOUNT SHOCKERS REPLACED,BOTH BOLSTER SHOCKERS'.

**20.08.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - LOCO CHECKED OK FOR GR'S.T/M'S & ALTERNATOR CHECKED OK.P=4M C=1.8M'.

**23.08.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - CHECKED FOR GR'S, NO DEFECT FOUND IN DEPOT.P= 3.5M OHMS.'.

**23.08.1991** Service defect: 'TS - ELECTRICAL MISC. MODULES - LC MODULE SWAPPED FROM BL 34.'.

**30.08.1991** Service defect: 'TS - TRACTION MOTOR EARTH - NO 1 T/MOTOR REPLACED, EX BL 28, A/C EARTH FAULT.IN-81B115. OUT-81B169.'.

**23.09.1991** Service defect: 'UN - BOGIE - NO 5 UPPER GEARCASE CRATER CAP REPAIRED.CHECKED OK.'.

**04.10.1991** Service defect: 'A - ENGINE GOVERNOR ELECTRICAL - GOVERNOR CONDUIT REPLACED.'.

**04.10.1991** Service defect: 'SW - OTHER BODY REPAIRS - V/LINE MODIFICATIONS.'.

**04.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - V/LINE MODS.COMPLETED.'.

**07.11.1991** Service defect: 'UN - GENERAL - W/WIPER WASHER BOTTLE REPLACED.WINDO SEALED WITH SILASTIC ON'A'END.'.

**10.01.1992** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS WINDOW REPAIRED.'.

**17.01.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 5 T/MOTOR VEED OUT ON THE COM,BLOWN OUT & RISER BARS PAINTED,A/C GR'S.'.

**17.01.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - 43 BRUSHES CHANGED IN T/M'S + 2 BRUSH HOLDERS CHANGED IN NO 5 T/M.'.

**05.02.1992** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - NO 3 WHEELSET REPLACED,A/C LEAD PICK UP ON SUSP BBEARING.'.

**05.02.1992** Service defect: 'C - ENGINE AIR FILTERS - ENGINE AIR INTAKE FILTERS CHANGED.'.

**31.03.1992** Service defect: 'SW - LUBRICATING SYSTEM - OIL LEAK MICHIANA TO STRAINER BOX REPAIRED.'.

**05.05.1992** Service defect: 'UN - DYNAMIC BRAKE - LOAD METER IN 'A'END REPLACED.OK.'.

**21.07.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R2 WICK CHANGED A/C DIRTY.'.

**21.07.1992** Service defect: 'B - BROKEN PIPE - LEAKING OIL PIPE FROM CRANKCASE TO FLOOR REPAIRED.'.

**21.07.1992** Service defect: 'B - COOLING SYSTEM - COOLANT CHANGED.'.

**21.07.1992** Service defect: 'B - EXHAUST - EXHAUST COVER GOV. END WELDED A/C CRACKED. EXHAUST EXPANSION JOINT FROM TURBO TO EXHAUST REPLACED A/C'.

**21.07.1992** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED.'.

**21.07.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 17 BRUSHES CHANGED A/C CONDEMNING LIMIT. 3 BRUSHES CHANGED A/C BROKEN/CHIPPED.'.

**24.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS THOUGHT TO BE CONDEMNED. WHEELS CHECKED OK IN MAIN WORKSHOP.'.

**08.10.1992** Service defect: 'A - GENERAL UNABLE TO LIFT LOAD - LOCO LOAD TESTED OK.'.

**08.10.1992** Service defect: 'A - TRACTION MOTOR - NO 5 T/MOTOR GEARCASE BOLT REPLACED, A/C BROKEN.'.

**26.10.1992** Service defect: 'UN - EARTH FAULT

MISCELLANEOUS - EARTH ON CONTROL - 'B'END SPEEDO HEAD REPLACED,A/C U/S. CURRENT REG CHECKED OK.SPEEDO ARMATURE REPLACED, A/C BURNT'.

**26.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B' COUPLER WEAR PLATE CHECKED OK FOR CRACKS.'.

**17.11.1992** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - 'C' VALUE MICRO SWITCHES OPEN CCT- BOTH PEDESTALS-BOTH CHANGED.A/C LOST POWER, LOW REVS.'.

**17.11.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - 'B'END JUMPER CABLE REPLACED.'.

**29.12.1992** Service defect: 'TS - BOGIE - NOS L4,5,6 & R2 + R4 BRAKE SHOES REPLACED, A/C BURNT. AIR TEST COMPLETED OK.'.

**29.12.1992** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK IN ENGINE ROOM REPAIRED.'.

**29.12.1992** Service defect: 'TS - TRACTION MOTOR - T/M BRUSHES INSPECTED & PIGTAIL BOLTS REPLACED, A/C GR'S.'.

**29.12.1992** Service defect: 'TS - VIGILANCE - VIG TIMING ADJUSTED.'.

**04.01.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - F6 MODULE CHANGED OK.'.

**20.01.1993** Service defect: 'D - COOLING SYSTEM - COOLANT CHANGED.'.

**20.01.1993** Service defect: 'D - ELECTRICAL MAINTENANCE -WIRING - FUEL PUMP CONDUIT REPLACED.'.

**20.01.1993** Service defect: 'D - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER PACKAGE WAER PLATES REPAIRED A/C CRACKED.'.

**20.01.1993** Service defect: 'TS - FUEL SYSTEM INJECTORS - NO2 INJECTOR REPLACED.A/C SEIZED.'.

**20.01.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV.REPLACED.'.

**22.01.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO.4 T/M HAD PULLED PIGTAILS AND CHIPPED BRUSHES. BRUSHES REPLACED.'.

**26.01.1993** Service defect: 'UN - TRACTION MOTOR - NO.4 T/M REPLACED A/C DAMAGED COMMUTATOR. TESTED OK.'.

**08.02.1993** Service defect: 'UN - GENERAL - D/SIDE 'A'END WHITE MARKER LIGHT. 'A'END D/SIDE MIRROR REPLACED.'.

**08.02.1993** Service defect: 'UN - OTHER BODY REPAIRS - FOLLOWING WINDOWS REPLACED, A/C BROKEN, 2 F/SIDE PORTHOLES. F/SIDE 'A'END SLIDING WINDOW, D/SIDE 'B'END DOOR WINDOW,'.

**20.02.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - REPLACED T/M BRUSHES A/C LOOSE TAMPS - NONE TOUCHING GROUND.T/M 2- 6 BRUSHES,T/M 3 -3 BRUSHES, T/M 5 -10 BRUSHES & T/M 6'.

**13.03.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - 7 BRUSHES CHANGED IN NO 2 T/MOTOR, A/C BROKEN. 10 BRUSHES CHANGED IN NO 5 T/M, A/C BROKEN & PULLED PIGTAILS.'.

**31.03.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - 6 BRUSHES REPLACED ON NO 2 T/M,A/C PULLED PIGTAILS. 5 BRUSHES REPLACED ON NO 5 T/M,A/C PULLED PIGTAILS. 2 BRUSHES'.

**31.03.1993** Service defect: 'UN - NO 2 T/M SUSPECT FLATS ON COMM. NO 4 T/M,BOTTOM 2'.

**31.03.1993** Service defect: 'UN - BRUSH HOLDERS TO ADJUST CLOSER TO COMM.31/3.'.

**20.04.1993** Service defect: 'A - ALTERNATOR - ALTERNATOR SLIP RINGS REMOVED AND MACHINED AND REFITTED.LOADTESTED OK 2900HP.'.

**20.04.1993** Service defect: 'A - BATTERY MAINTENANCE - BATTERIES WASHED A/C DOWN TO EARTH.'.

**20.04.1993** Service defect: 'A - TRACTION MOTOR - NO 1 TM TOP BRUSH HOLDER REMOVED AND CLEANED A/C STICKING HAMMERS.NO 4 BRUSH HOLDERS ADJUSTED.'.

**20.04.1993** Service defect: 'A - TRACTION MOTOR - NO 5 T/MOTOR REPLACED,A/C FLATS ON COMM. T/M OUT-81E1-1243 T/M IN- 81M1-1014.'.

**20.04.1993** Service defect: 'A - RADIO TO CHECK A/C DOWN TO EARTH.'.

**09.05.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 2 BRUSHES CHANGED IN NO.2 T/M. 3 BRUSHES CHANGED IN NO.6 T/MA/C PULLED PIG TAILS. ALL OTHER T/MS OK. P=4M OHMS.'.

**03.07.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED IN NO.1 T/M AND 12 BRUSHES IN NO.3 T/M. A/C BRUSHES SO SHORT HAMMERS WERE RESTING ON BRUSH HOLDERS.'.

**13.07.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L4 WICK REPLACED.'.

**13.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - WEAR PLATE ON PACKAGE WELDED,A/C CRACKS.'.

**13.07.1993** Service defect: 'B - OTHER BODY REPAIRS - OBS/SIDE WINDOW REPAIRED. SEAT MODS COMPLETED.'.

**14.07.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING LOOM REPLACED ON MOTOROLA RADIO UNIT BEHIND DRIVER 'A'END.'.

**09.08.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE REPAIRS - WIPED RFF RESISTORS REPLACED, A/C HEAT STRESS. I MEASURED I= 625 MA 71V. DYN CHECKED OK.'.

**27.08.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.

**27.08.1993** Service defect: 'SW - TRACTION MOTOR BRUSHES - NO 6 T/MOTOR BRUSH HOLDERS REPLACED. ALL T/MOTOR BRUSHES CHANGED IN EVERY T/MOTOR.'.

**06.09.1993** Service defect: 'UN - BOGIE - TRI-MOUNT RUBBERS REPLACED 'A'END, SHOCKER RUBBERS REPLACED ON TRI-MOUNT, TRI-MOUNT STOPS WELDED.'.

**13.09.1993** Service defect: 'UN - BOGIE - TRI-MOUNT INSPECTED OK.'.

**13.09.1993** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B'END JUMPER RECEPTACLE REPAIRED.'.

**27.09.1993** Service defect: 'A - ALTERNATOR - 2 BRUSHES CHANGED ON ALTERNATOR (TOP FRONT).'.

**27.09.1993** Service defect: 'A - ENGINE AIR FILTERS - AIR INTAKE FILTERS (ENGINE) REPLACED, A/C DIRTY.'.

**27.09.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - D/S NO 1 SAND PIPE REALIGNED. R3,L3 & L6 SANDERS CLEARED.'.

**27.09.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. HOSE D/S 'A'END REPLACED, A/C U/S.'.

**27.09.1993** Service defect: 'A - OTHER BODY REPAIRS - DRIVERS SIDE 'A'END STEP WELDED.'.
**27.09.1993** Service defect: 'A - 'B'END WASHERS NOT WORKING - BOTH HOSES BROKEN'.
**27.09.1993** Service defect: 'A - UNDER CAB. EXH/HEAT SHIELD ABOVE NO 1 BROKEN.'.
**27.09.1993** Service defect: 'A - CRACKS IN STACK BOTH SIDES OF TURBO.27/9.'.
**28.09.1993** Service defect: 'TS - ELECTRICAL MISC. MODULES - RA & F6 MODULES REPLACED, A/C REMOVED FOR BL 34.'.
**28.09.1993** Service defect: 'TS - GENERAL - V/LINE RADIO DISCONNECTED. LOCO OK ON TEST TRIP.'.
**22.10.1993** Service defect: 'UN - AIR CONDITIONING - AIR/CON COMPRESSOR MOTOR - EARTH FAULT. AIR CON ISOLATED.'.
**28.10.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - AIR CONDITIONER WIRING REPAIRED.'.
**23.11.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED OK.'.
**23.11.1993** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDER BRACKET REPLACED 'A'END OBS/SIDE.'.
**30.11.1993** Service defect: 'TS - ENGINE PISTON - NO 15 POWER ASSEMBLY REPLACED, A/C BROKEN PISTON. ENGINE INSPECTED OK, LOAD TESTED OK 2875HP.'.
**30.11.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - BRUSHES CHANGED IN ALL T/M'S, A/C SHORT. ALL BRUSH HOLDERS CHANGED IN NO 6 T/MOTOR AND COMM CLEANED UP. BRUSHES WERE'.
**09.12.1993** Service defect: 'C - BOGIE - R4,R5,L2 & L4 SPRINGS REPLACED, A/C CRACKED.'.
**09.12.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1,R5,R6 & L6 WICKS AND OIL CHANGED.'.
**09.12.1993** Service defect: 'C - DYNAMIC BRAKE - DYN/BRAKE RHEOSTAT CONVERSION 'A'AND 'B'END COMPLETED.'.
**09.12.1993** Service defect: 'C - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT VOLTAGE CHECKED AND ADJUSTED.'.
**09.12.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - R2 SANDER M/VALVE CONDUIT REPLACED.'.
**09.12.1993** Service defect: 'C - ENGINE PISTON - TOP RING ON NO 15 PISTON CHANGED.'.
**09.12.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - LEFT SIDE TURBO AFTER COOLER CHANGED.'.
**09.12.1993** Service defect: 'C - GENERAL - D/S MIRROR 'A'END REPLACED, A/C CRACKED.'.
**12.12.1993** Service defect: 'TW - TRACTION MOTOR - T/M NO.6 PAINTED.'.
**12.12.1993** Service defect: 'TW - TRACTION MOTOR FLASHOVER - 4 BRUSHES CHANGED ON NO.6 T/M A/C FLASHED AT BACK OF BOTTOM B/HOLDER. COMM. SLIGHTLY SCRATCHED AND BURNT, OK FOR TRAFFIC'.
**16.12.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FINAL FILTER ON AIR DRYER CHANGED, A/C BLOCKED.'.
**23.12.1993** Service defect: 'SW - TRACTION MOTOR - FLATS ON T/MOTOR - NO6 T/MOTOR REPLACED A/C FLATS ON COMM.'.
**24.01.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.3 WHEEL SET HAS BAD FLATS. SWAPPED WITH W/SET NO.5 EX BL27. BL27 TO HAVE NEW BOGIES FITTED.'.
**28.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE REPLACED EX BL29.'.
**25.02.1994** Service defect: 'A - GENERAL - SEAT REPLACED. OBS/SIDE ARM REST REPLACED.'.
**25.02.1994** Service defect: 'A - VIGILANCE - OBS/SIDE VIG/CONTROL LIGHT CHECKED OK.'.
**25.02.1994** Service defect: 'A - ROWCO RC315M POWER POINT FOR 'A'END CAB, SWITCH'.
**25.02.1994** Service defect: 'A - FAULTY IN BOTTOM ONE.25/2.'.
**26.03.1994** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED, TESTED OK.'.
**28.03.1994** Service defect: 'UN - AIR CONDITIONING - AIR CON REPAIRS COMPLETED, THERMOMETER ADJUSTED.'.
**03.05.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 3 T/MOTOR REPLACED, A/C GROUND RELAYS.'.
**19.05.1994** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED, A/C ARMATURE DOWN.'.
**23.05.1994** Service defect: 'B - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR TRANS REPLACED, A/C INTERMITTENT FAULT CAUSING SS TO UNLOAD.'.
**23.05.1994** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET AIR FILTERS REPLACED.'.
**23.05.1994** Service defect: 'B - GENERAL - 2 BLINDS REPAIRED.'.
**23.05.1994** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - KNUCLES 'A'AND 'B' END CHANGED.'.
**23.05.1994** Service defect: 'B - NO 4 T/M CUT OUT, A/C GR'S. 23/5.'.

**BL 33**

Details: locomotive 'BL 33 X' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 11.04.1984
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 17.04.1997 | | |
| Last Lift: | 27.03.1991 | | |
| SW Service Mileage: | 895318 KM | SW Service Date: | 10.10.1995 |
| A Service Mileage: | 1209318 KM | A Service Date: | 06.04.1997 |
| B Service Mileage: | 1152230 KM | B Service Date: | 08.01.1997 |
| C Service Mileage: | 1030983 KM | C Service Date: | 03.07.1996 |
| D Service Mileage: | 372662 KM | D Service Date: | 01.03.1993 |
| E Service Mileage: | 840594 KM | A Service Date: | 26.06.1995 |
| F Service Mileage: | 0 KM | A Service Date: | 27.03.1991 |
| WT Service Mileage: | 301700 KM | WT Service Date: | 23.10.1992 |
| US Service Mileage: | 1216041 KM | A Service Date: | 17.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**12.07.1989** Service defect: 'TS - FUEL SYSTEM - LOCO FUEL TANK FILLED A/C EMPTY.'.

**19.07.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO BOOKED NOISY.AUX DRIVE SHAFT FOUND RUBBING ON COVER. TURBO CHECKED OK.'.

**19.07.1989** Service defect: 'UN - GENERAL - DRIVERS WINDOW 'B'END REPAIRED.BOTH CAB DOOR SEALS REPLACED A/C FUMES.'.

**27.07.1989** Service defect: 'SW - COOLING SYSTEM RADIATOR - R1 RADIATOR REPLACED A/C LEAKING.'.

**28.07.1989** Service defect: 'TS - ENGINE - ENGINE PROTECTION BUTTONS BOOKED FOR TRIPPING 3 TIMES.OIL & CRANKCASE PRESSURES CHECKED OK.NO8 TEST COCK REPLACED.'.

**02.08.1989** Service defect: 'SW - GENERAL - 'A'CAB BOOKED FOR HIGH NOISE LEVEL.NOISE LEVELS CHECKED OK.'.

**07.08.1989** Service defect: 'UN - GENERAL - 'A'END DRIVERS SLIDING WINDOW REPLACED A/C BROKEN.'.

**17.08.1989** Service defect: 'TS - TRACTION MOTOR - NO2 TM CHANGED A/C EARTH ON ARMATURE.(IN 81H11008 OUT 82M11020 ).'.

**15.09.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO1 TM BAD FLASH BETWEEN BRUSH HOLDERS.6 BRUSHES REPLACED. P-100K.'.

**15.09.1989** Service defect: 'UN - NO.4,5,6 TM ARM.DARK EVERY FOURTH BAR.15/9'.

**17.10.1989** Service defect: 'UN - GENERAL - 'A'END DRIVERS SLIDING WINDOW REPLACED A/C BROKEN.'.

**25.10.1989** Service defect: 'UN - BOGIE - TRI MOUNT RUBBERS RENEWED.'.

**25.10.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - RH NO1 RADIATOR REPLACED A/C LEAKING.'.

**10.11.1989** Service defect: 'UN - GENERAL SHUTDOWN - MAIN FUEL FILTER CHANGED A/C SHUTTING DOWN.'.

**14.11.1989** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR CHANGED.'.

**29.11.1989** Service defect: 'B - BOGIE - TRI-MOUNT SHOCKER 'A'END CHANGED.'.

**19.12.1989** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - 'A'END LOAD METER CHANGED A/C NEEDLE STUCK.'.

**19.12.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - DR MODULE CHANGED & QUALIFIED.'.

**10.01.1990** Service defect: 'TS - FM MODULE TO BE REPLACED 11/1/90.'.

**12.01.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - F.M. MODULE CHANGED.'.

**12.01.1990** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO5 TM REBRUSHED A/C PIGTAILS BLOWN OFF.'.

**05.02.1990** Service defect: 'WT - BRAKE ADJUST MILE END'.

**06.03.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DP & DR MODULE QUALIFIED A/C D/BRAKE FAULTY.'.

**13.03.1990** Service defect: 'UN - DYNAMIC BRAKE - GRID BLOWER MOTOR LIGHT ON.BLOWER CONNECTIONS & GRIDS CHECK-ED FOR LOOSENESS & OVERHEATING.ANNUNCIATOR RESET.'.

**19.04.1990** Service defect: 'UN - DYNAMIC BRAKE - DG MODULE SWAPPED WITH ONE FROM BL 32, QUALIFIED DR& DP MODULE CHECKED, BLOWER MOTOR TRACK TESTED OK.'.

**09.05.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DR MODULE QUALIFIED'.

**18.05.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRE ON D/BRAKE INTERLOCK REPLACED A/C OFF.'.

**25.05.1990** Service defect: 'UN - GENERAL - 'A'END DRIVERS SIDE WINDOW REPLACED.'.

**25.05.1990** Service defect: 'UN - 'B'END F/MANS WINDSCREEN BROKEN.25/5*'.

**04.06.1990** Service defect: 'SW - SIDE BLINDS TO FIT.INSPECTORS SEAT(LARGE) TO'.

**04.06.1990** Service defect: 'SW - INSTALL.4/6*'.

**25.06.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - SW,EN,RA MODULES QUALIFIED.'.

**25.06.1990** Service defect: 'UN - GENERAL - SERVICE WATER TANK REPAIRED.'.

**27.06.1990** Service defect: 'UN - LUBRICATING SYSTEM - MICHIANA FILTERS CHANGED.'.

**17.07.1990** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - GRIDS REPLACED A/C BURNT.'.

**19.07.1990** Service defect: 'UN - DYNAMIC BRAKE - G/RELAY IN D/BRAKE,REPLACED INSULATING BLOCK MIDDLE GRID D/S'.

**31.07.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - CHECKED OK IN DEPOT.A/C BURNING SMELL.'.

**31.07.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DR MODULE REPLACED A/C CYCLING IN DYN/BRAKE.'.

**22.08.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - BOOKED FOR LOW POWER ABOVE 60KPH.FG,DR,DP1 MODULES QUALIFIEDCOULD NOT FAULT.'.

**19.09.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - WHEELS TURNED IN MELBOURNE 12/9/90.'.

**16.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END AUTO BRAKE PORTION CHANGED A/C FAULTY.'.

**22.10.1990** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED A/C FAULTY.'.

**29.10.1990** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED.'.

**01.11.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY,CHECKED OK IN DEPOT.'.

**01.11.1990** Service defect: 'UN - VIGILANCE - VIGILANCE TIMING ADJUSTED.'.

**07.11.1990** Service defect: 'UN - GENERAL - AIR

CONDITIONING REGASSED & CHECKED OK.'.
**29.11.1990** Service defect: 'UN - BOGIE - TEMPORY BOGIES FITTED.'.
**27.03.1991** Service defect: 'F - DYNAMIC BRAKE - CREW CABINET FITTED. V/LINE UNDER ALTERNATOR AND BOLSTER MOD. FITTED.'.
**27.03.1991** Service defect: 'F - DYNAMIC BRAKE - TRACTION MOTOR CUTOUT SWITCH AND SELF LOAD FITTED. AUXILLARYALTERNATOR O/HAULED. COUPLING LIGHTS, CLIP BOARD AND TWO MAN'.
**27.03.1991** Service defect: 'F - ENGINE - (ORIGINAL PARTS REPLACED - CONROD FORKS/BLADES. PISTON PINS AND CARRIERS. HARMONIC BALANCER. CAMSHAFT GEARS. TURBO DRIVE'.
**27.03.1991** Service defect: 'F - ENGINE - ALL HEAD SEATS NOT MACHINED. MAIN BEARINGS AND CONROD BEARINGS RENEWED. NEW 1,000,000 MILE POWER ASSEMBLIES FITTED'.
**27.03.1991** Service defect: 'F - ENGINE - AND MODIFIED. WATER PUMPS O/HAULED AND PINNED. MAIN BEARING CAPS OK. NEW INSERTS LOWER LINER. NEW ROCKER ROLLER BUSHES.'.
**27.03.1991** Service defect: 'F - ENGINE - CRAB PLATES INSTALLED. E3B TURBO INSTALLED. MECHANICAL BONDED RADIATORS FITTED. DYNAMIC BRAKE AND RADIATORS FITTED'.
**27.03.1991** Service defect: 'F - ENGINE - ENGINE EX BL 32W SERIAL NUMBER 82-B1-1057 MODEL 645E3B INTO BL33. THIS IS A 1,000,000 MILE ENGINE.'.
**27.03.1991** Service defect: 'F - ENGINE - GEAR. IDLER AND STUBSHAFT GEARS. CRANKSHAFT. CAMSHAFTS.) SCAVENGING OIL PUMP OVERHAULED. MAIN LUBE OIL PUMP O/HAULED'.
**27.03.1991** Service defect: 'F - ENGINE - RECONDITIONED VALVE BRIDGES FITTED. NEW CARRIER BEARING INSERTS. NEW CAMSHAFT BEARINGS.'.
**27.03.1991** Service defect: 'F - BOGIE CHANGE REQUIRED AT M.P.C. A/C ON TEMP BOGIES'.
**12.04.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMP GOV CHECKED OK IN DEPOT.LOCO RELEASED TO TRAFFIC.'.
**01.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - 1 BATTERY REPLACED,A/C 2 BAD CELLS.'.
**05.07.1991** Service defect: 'TS - BATTERY MAINTENANCE - 1 BATTERY CHANGED.'.
**31.07.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - MB MOTOR MODULE REPLACED, A/C LOCO NOT ALWAYS RETURNING TO POWER AFTER DYNAMIC OPERATION.'.
**08.08.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - REVERSER/FORWARD TRANSFER SWITCH REPLACED, A/C SLIPPING.'.
**19.08.1991** Service defect: 'UN - BOGIE - GEARCASES REPAIRED, A/C LOOSE.TRIMOUNT PADS RENEWED,SHOCKERSRENEWED.'.
**19.08.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK ON STRAINER REPAIRED,(PIPE INTERCOOLER TO OIL).'.
**29.10.1991** Service defect: 'B - TRACTION MOTOR FLASHOVER - NO 2 T/MOTOR CLEANED & ALL BRUSHES REPLACED,A/C FLASHOVER.'.
**29.10.1991** Service defect: 'SW - 'V' LINE MODS TO COMPLETE.29/10.'.
**07.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BOGIE BRAKE CYL,STRAIGHT JOINER ATTACHED,A/C HOLED.'.
**12.11.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 1 T/MOTOR HAD VERY SMALL FLASH,NO SIGN OF FAULT.AN112 RESET.'.
**28.11.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - MAIN ALT FIELD CONNECTIONS REPAIRED.LOAD TESTED OK,A/C NO POWER.'.
**06.12.1991** Service defect: 'UN - GENERAL - LIGHTS & FRIDGE REPAIRED.'.
**06.12.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END AUTO CARRIER PLATE REPAIRED,A/C BROKEN KNUCKLE.'.
**24.12.1991** Service defect: 'UN - G/R & D/B LIGHT COMING ON CONTINUALLY EVEN WHEN'.
**24.12.1991** Service defect: 'UN - LOCO IS SHUT DOWN. TO MONITOR.'.
**02.01.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - GR ANNUNCIATION OCCURING INTERMITTENTLY.'.
**02.01.1992** Service defect: 'UN - INSULATION WORN - WIRE RUBBED THRU.-REPAIRED.'.
**09.03.1992** Service defect: 'UN - GENERAL - 'A'END SHOCKER REPLACED,AND SHOCKER BRACKET REPAIRED OK.'.
**31.03.1992** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY REPLACED.A/C TERMINAL BLOWN OFF.LOOSE LUG ON ANOTHER BATTERY REPAIRED.'.
**01.04.1992** Service defect: 'C - CONTACTOR MISCELLANEOUS - P5 CONTACTOR TIPS CHECKED OK.'.
**01.04.1992** Service defect: 'C - LUBRICATING SYSTEM - OIL CHANGED A/C HIGH METAL READING.'.
**01.04.1992** Service defect: 'C - OTHER BODY REPAIRS - MILLIPEDE SCRAPERS FITTED TO 'A' END PILOT.'.
**01.04.1992** Service defect: 'C - TRACTION MOTOR - NO.6 T/M CHANGED.'.
**22.04.1992** Service defect: 'UN - GENERAL - HORN ON 'B'END REPLACED.'.
**22.04.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER REPLACED.'.
**24.06.1992** Service defect: 'A - BOGIE - NOS. ONE AND TWO GEARCASES TIGHTENED.'.
**24.06.1992** Service defect: 'A - COOLING SYSTEM - ENGINE COOLANT CHANGED.'.
**24.06.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - RIGHTNO. 1&4 SANDERS UNBLOCKED.-LEFT NOS.1-2&4 SANDERS UNBLOCKED.-3 SAND PIPES TIGHTENED.'.
**24.06.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 2T/M BRUSHES CHANGED ON NO.4 T/M A/C FRAYED PIGTAILS. 1 BRUSH CHANGED ON NO.5 T/M A/C FRAYED PIGTAIL.'.
**24.06.1992** Service defect: 'A - ENGINE INTAKE FILTERS TO BE REPLACED.A/C NO FILTER'.
**24.06.1992** Service defect: 'A - IN APL OR IN STORE.'.
**09.07.1992** Service defect: 'SW - BOGIE - BOTH BOGIES CHANGED.BOGIE LUBE CHECKED OK.-'.
**09.07.1992** Service defect: 'SW - ENGINE - ENGINE AIR INTAKE FILTERS REPLACED.'.
**09.07.1992** Service defect: 'SW - TRACTION MOTOR - TRACTION MOTORS MEGGERED AND INSPECTED OK.'.
**11.07.1992** Service defect: 'UN - TRACTION MOTOR

FLASHOVER - NO.2 T/M FLASHED.A/C BRUSHES NOT BEDDED PROPERLY.CHANGED ONE BRUSH.'.

**15.07.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.2 T/M WAS CLEANED AND PAINTED.-RISERS HOOKED OUT AND CHECKED OK.'.

**15.07.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.3 T/M HAD FAIRLY BAD FLASHES.-REPLACED 6 BRUSHES CHANGED A/C PIGTAILS HANGING.-SENT ON TRIAL RUN UNDER LOAD.CHECKED'.

**20.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - NO.5 L/H SPRING UNSEATED - SPRING RESEATED WITH FORKLIFT.'.

**05.09.1992** Service defect: 'UN - RADIO REPAIR - CNVERTACOM AND MIC. REPLACED. A/C RED TRANSMIT LIGHT NOT WORKING V/LINE CONVERTACOM 'A'END.'.

**05.09.1992** Service defect: 'UN - BL33 LOOSES AMPS INTERMITTENTLY IN ALL NOTCHES IN'.

**05.09.1992** Service defect: 'UN - ALL SPEEDS.5/9/92.'.

**17.09.1992** Service defect: 'B - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CHANGED.'.

**17.09.1992** Service defect: 'B - EXHAUST - ONE EXHAUST BELLOW CHANGED A/C CRACKED.'.

**17.09.1992** Service defect: 'B - VIGILANCE - VIGILANCE TIMING RESET.'.

**21.09.1992** Service defect: 'UN - LUBRICATING SYSTEM - MARMON COUPLING ON OIL PIPE FROM STRAINER BOX REPLACED. CHECKED OK.'.

**21.09.1992** Service defect: 'UN - VIGILANCE - COPPER PIPE IN VIGILANCE RACK REPLAIRED,A/C HOLED.'.

**11.12.1992** Service defect: 'A - AUXILLARY MACHINES - AUX GENERATOR BOLT REPLACED, A/C BROKEN.'.

**11.12.1992** Service defect: 'A - ENGINE - ENGINE MOUNTING BOLTS TIGHTENED.'.

**11.12.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - BRUSHES REPLACED IN NO1 & NO 3 T/M'S A/C F/OVERS. REPLACED BRUSH HOLDER IN NO 3 T/M, A/C FLASHED ACROSS INSULATOR.'.

**14.01.1993** Service defect: 'UN - BOGIE - BOGIE CENTRE PLATES,TRI-MOUNTS,SHOCKERS ALL OK.'.

**14.01.1993** Service defect: 'UN - GENERAL - HOTPLATE REPAIRED OK.'.

**07.02.1993** Service defect: 'SW - GENERAL - COW CATCHER REPAIRED.'.

**07.02.1993** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - 'A'END SANDER AIR LINE REPLACED.'.

**01.03.1993** Service defect: 'D - LUBRICATING SYSTEM - MARMON COUPLING BETWEEN MICHIANA TO OIL PUMP TIGHTENED, A/C BAD OIL LEAK.'.

**29.03.1993** Service defect: 'SW - BOGIE - LOCO LIFTED & TRI-MOUNTS CLEANED. OBS/SIDE 'B'END TRI-MOUNT PAD REPLACED, A/C U/S. TRI-MOUNT SEAL REPLACED ON 'B'END'.

**29.03.1993** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - 'A'END BRAKE VALVE CHECKED & TESTED OK.'.

**29.04.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BOTTOM 6 BRUSHES REPLACED ON NO 3 T/MOTOR, A/C FLASHOVER. 4 BOTTOM BRUSHES REPLACED ON NO 6 T/MOTOR, A/C VERY SHORT.'.

**29.04.1993** Service defect: 'UN - DRIVERS SIDE/MIRROR TO REPLACE,NIL STOCK MPC.29/4.'.

**03.05.1993** Service defect: 'UN - AIR CON NOT WORKING,REPS REQ'D.3/5.'.

**06.05.1993** Service defect: 'SW - AIR CONDITIONING - AIR/CON COMPRESSOR CHANGED.'.

**03.06.1993** Service defect: 'A - BOGIE - BOGIES ROTATED A/C SHARP FLANGE. HUCK BOLTS FITTED TO GEAR LUBE CASES. MILLIPEDE SCRAPERS FITTED.'.

**03.06.1993** Service defect: 'A - ELECTRICAL MISC. MODULES - LC107 MODULE REPLACED AND QUALIFIED.'.

**03.06.1993** Service defect: 'A - GENERAL - NEW SEATS FITTED AND BASE MODS. DONE.'.

**03.06.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - NEW SAND BOX COVERS FITTED. AIR FEED TO SANDERS MODIFIED.'.

**03.06.1993** Service defect: 'A - OTHER BODY REPAIRS - NEW SHOCK PROOF WINDSCREENS FITTED. CAB BLINDS REPAIRED. OBS. SIDE MIRROR REPLACED A/C CRACKED.'.

**03.06.1993** Service defect: 'A - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.'.

**03.06.1993** Service defect: 'A - T/M NO.4 TO MONITOR A/C SLIGHT FLATS.3/6/93.'.

**07.06.1993** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 1 T/MOTOR CLEANED & BRUSH HOLDER ADJUSTED,A/C FLASHOVER.'.

**12.06.1993** Service defect: 'UN - TRACTION MOTOR - NO 1 T/MOTOR REPLACED,A/C GR'S. T/M IN-75H1-1220. T/M OUT- 67L1-1074. T/M CUT BACK IN & TESTED OK.'.

**20.07.1993** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO 3 T/MOTOR REPLACED,A/C LOW FIELD RESISTANCE. T/M IN-69B1-1056. T/M OUT-70D1-1209.'.

**16.08.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 10 BRUSHES CHANGED ON NO.2 T/M A/C CONDEMNING LIMIT. 3 BRUSHES ON NO. 3 AND 2 ON NO.2 ALSO CONDEMNING LIMIT.'.

**02.09.1993** Service defect: 'UN - BOGIE - ALL TRI-MOUNT RUBBERS REPLACED, ONE BOLSTER RUBBER CHANGED. LIFTING RODS STRAIGHTENED.'.

**02.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. HOSE REPLACED.'.

**09.09.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHANGE COMPLETED.'.

**29.09.1993** Service defect: 'TS - ALTERNATOR - ALTERNATOR CHECKED OK.'.

**29.09.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - GR'S - REPLACED 2 BRUSH HOLDERS IN NO 3 T/MOTOR, ALL BRUSHESREPLACED. COM CLEANED, 'V'RING CLEANED, BLOWN OUT. REST OF'.

**01.11.1993** Service defect: 'A - COOLING SYSTEM - COOLING SYSTEM FLUSHED.'.

**01.11.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - REPLACED IPS, A/C BROKEN MOUNTINGS.'.

**01.11.1993** Service defect: 'A - OTHER BODY REPAIRS - COLLISION REPAIRS COMPLETED TO FRONT OF LOCO.'.

**01.11.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - RAD FAN CONTACTOR NO 3 CLEANED, A/C STICKING. CHECKED OK.'.

**18.12.1993** Service defect: 'TW - TRACTION MOTOR - ALL BRUSHES CHANGED ON NO.4 T/M. A/C SHORT AND NOT TOUCHING COMM. TOP BRUSH HOLDER

REPLACED.'.

**18.12.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - 3 BRUSHES CHANGED ON NO.3, A/C SHORT. 9 BRUSHES CHANGED ON NO.2 A/C SHORT.'.

**18.01.1994** Service defect: 'UN - FUEL SYSTEM - SPIN ON FUEL FILTERS CHANGED, A/C FUEL IN BOTH SIGHT GLASSES'.

**21.01.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - NO.# THERMOSTAT SWITCH REPLACED.'.

**21.01.1994** Service defect: 'C - OTHER BODY REPAIRS - SERVICE WATER TANK TO REPAIR AT LATER DATE.'.

**02.02.1994** Service defect: 'UN - GENERAL - SERVICE WATER TANK REPAIRED.'.

**02.02.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED.'.

**15.02.1994** Service defect: 'TS - COOLING SYSTEM - BL33 LOST ALL WATER. WATER HOSE TO COMPRESSOR REPLACED.'.

**18.03.1994** Service defect: 'SW - GENERAL - SERVICE WATER TANK REPLACED, A/C LEAKING. PRESSURISING FAN INLET BLANKING COVER BOLTS TIGHTENED, A/C'.

**19.04.1994** Service defect: 'A - BOGIE - TRIMOUNT RUBBERS 'B'END REPLACED. R2 SLACK ADJUSTER REPAIREDA/C SEIZED.'.

**19.04.1994** Service defect: 'A - ENGINE - VALVE LASH ADJUSTER NO 16 - C VALVE REPLACED.'.

**19.04.1994** Service defect: 'A - GENERAL - HAND BASIN TAP AND TOILET FLUSH VALVE REPAIRED. OBS/SIDE BLIND REPAIRED.'.

**19.04.1994** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO 1 RAD FAN REPLACED, DIRECTION TEST OK. NO 3 RAD FAN FUSESREPLACED.'.

**26.04.1994** Service defect: 'UN - ENGINE - NO 13 CYLINDER HEAD CHANGED. TWIN TOWER AIR DRYER CHANGED, A/C CHOOFING VALVE.'.

**09.06.1994** Service defect: 'TS - ALTERNATOR - MAIN ALTERNATOR REPLACED, A/C BURNT OUT. LOCO LOAD TESTED TO 2875 HP.'.

**09.06.1994** Service defect: 'TS - OTHER BODY REPAIRS - DOOR SEAL RESECURED'.

**25.06.1994** Service defect: 'UN - BOGIE - 'B'END TRIMOUNT SHOCKER RUBBERS REPLACED AND SHOCKER POSITIONED RIGHT WAY UP.'.

**25.06.1994** Service defect: 'UN - GENERAL - SERVICE WATER TANK FLUSHED.'.

**BL 34**

Details: locomotive 'BL 34 R' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 19.06.1984
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 22.04.1997 | | |
| Last Lift: | 08.04.1992 | | |
| SW Service Mileage: | 864189 KM | SW Service Date: | 02.11.1996 |
| A Service Mileage: | 825074 KM | A Service Date: | 04.09.1996 |
| B Service Mileage: | 887446 KM | B Service Date: | 10.12.1996 |
| C Service Mileage: | 572838 KM | C Service Date: | 15.06.1995 |
| D Service Mileage: | 374245 KM | D Service Date: | 26.04.1994 |
| E Service Mileage: | 768036 KM | A Service Date: | 30.05.1996 |
| F Service Mileage: | 0 KM | A Service Date: | 08.04.1992 |
| WT Service Mileage: | 347193 KM | WT Service Date: | 25.02.1994 |
| US Service Mileage: | 916800 KM | A Service Date: | 22.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**27.07.1989** Service defect: 'SW - BOGIE - BOGIES FITTED & RECONNECTED TO LOCO AND DIRECTION TESTED NEW TRI-MOUNT, SHOCKERS FITTED'.

**27.07.1989** Service defect: 'SW - GENERAL - DUMMY RECEPTACLE MOD COMPLETED'.

**27.07.1989** Service defect: 'SW - GENERAL - MODS & ALTERATIONS COMPLETED AS PER INSTRUCTIONS M208AD. EN 104 MODULE INSTALLED DE MODULE MOD COMPLETED'.

**27.07.1989** Service defect: 'SW - GENERAL - NEW WIPER RUBBERS FITTED, HEATER BLANKING CHECKED AND IS COMPLETE. MODIFIED HEATER MOUNTING BRACKETS FITTED'.

**27.07.1989** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - FULL WICK CHECK NO DEFECTS FOUND'.

**28.07.1989** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.'.

**31.07.1989** Service defect: 'UN - GENERAL - W/WIPER BOOKED FAULTY,CHECKED OK IN DEPOT.'.

**20.08.1989** Service defect: 'UN - VIGILANCE - SEALS REPLACED IN DC VALVE A/C VIGILANCE FAULTY.'.

**24.08.1989** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN MOUNTING BOLT REPLACED A/C BROPKEN.'.

**03.09.1989** Service defect: 'TS - GENERAL LOSS OF POWER - BOOKED FOR LOSS OF POWER.CHECKED IN DEPOT,NO FAULT FOUND.'.

**03.10.1989** Service defect: 'UN - ENGINE - ENGINE CHECKED FOR WATER LEAKS.CHECKED OK.'.

**10.11.1989** Service defect: 'SW - ALTERNATOR - ALTERNATER REPAIRS COMPLETED (FIELD LEADS RELUGGED)'.

**10.11.1989** Service defect: 'SW - GENERAL - FRONT WINDSCREEN REPLACED A/C CRACKED'.

**10.11.1989** Service defect: 'SW - GENERAL - NO 'V' LINE MODS UNDERTAKEN AS NO INSTRUCTIONS TO AT EFFECT WERE ISSUED'.

**10.11.1989** Service defect: 'SW - VIGILANCE - VIGILANCE MODIFIED FOR DAY/NIGHT OPERATION'.

**10.11.1989** Service defect: 'SW - 'V' LINE MODS NOT COMPLETED'.

**13.11.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - LOCO BOOKED NO POWER.SE13 MODULE REPLACED.'.

**05.12.1989** Service defect: 'A - AUXILLARY MACHINES - TEST FUEL PUMP BRUSHES FITTED.'.
**05.12.1989** Service defect: 'A - ENGINE - NO4 CYL CAMSHAFT ROLLERS REPLACED.'.
**12.12.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO.16 CYL HEAD CHANGED A/C WATER LEAK.'.
**12.12.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C WATER CONTAMINATION(NO DEFECTS FOUND)'.
**14.02.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - ALL BRUSHES CHANGED IN NO 4 TM A/C CRACKED OR FRAYED BRAIDS.'.
**20.02.1990** Service defect: 'UN - TRACTION MOTOR - NO4 TM GROUND.'.
**22.02.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - SLIGHT FLASH ON NO4 TM CLEANED.'.
**11.03.1990** Service defect: 'UN - AUX GEN HAS NO OUTPUT.LOCO TO ISL FOR MODS,RN 11/3'.
**21.03.1990** Service defect: 'SW - ALTERNATOR - AUX. ALTERNATOR CHANGED A/C NIL CHARGE *'.
**21.03.1990** Service defect: 'SW - BOGIE MAINTENANCE - BOLSTERS - BOLSTER RETAINER RINGS FITTED BOTH ENDS'.
**21.03.1990** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - BATTERY NEGATIVE RELUGGED AT TB66'.
**21.03.1990** Service defect: 'SW - GENERAL - OBSERVER'S SEATS FITTED 'A' & 'B' END'.
**21.03.1990** Service defect: 'SW - RADIATOR MODIFICATIONS TO COMPLETE * BLINDS &'.
**21.03.1990** Service defect: 'SW - REFRIGERATOR TO FIT.'.
**28.03.1990** Service defect: 'UN - DYNAMIC BRAKE - AN & DG MODULES RESET A/C D/BRAKE FAILED.'.
**03.04.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 4 BRUSHES CHANGED IN NO 4 & 5 TM'S A/C FLASHOVERS.'.
**15.06.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.'.
**21.07.1990** Service defect: 'UN - BOGIE - BOTH BOLSTER SHOCKER WASHERS REPLACED.'.
**15.08.1990** Service defect: 'TS - ELECTRICAL MISC. MODULES - VR MODULE REPLACED A/C TRIPPING CIRCUIT BREAKER.'.
**14.09.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BRUSHES REPLACED IN NO2 TM A/C GROUND RELAY.'.
**23.10.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - MODULES QUALIFIED A/C DROPPING AMPS.'.
**25.10.1990** Service defect: 'UN - GENERAL LOSS OF POWER - RE6 RESISTOR REPLACED A/C LOSING POWER BETWEEN 15-30 KPH.'.
**09.11.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO2 TM FLASHED,NO CAUSE FOUND.'.
**22.11.1990** Service defect: 'UN - GENERAL - GEARCASES 2,3,4,5 SHIMS FITTED & TIGHTENED.'.
**15.01.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTOMATIC BRAKE NO 2 END REPAIRED A/C LOOSE ON TOP'.
**06.02.1991** Service defect: 'UN - DRIVERS BLIND NO 1 END WILL NOT STAY UP *'.
**06.02.1991** Service defect: 'UN - DRIVERS BLIND NO 2 END WONT STAY UP AND IS RIPPED*'.
**11.02.1991** Service defect: 'UN - ENGINE - TEST COCKS REPLACED A/C LEAKING'.
**11.02.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INSPECTED OKAY IN DEPOT'.
**07.03.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - NOISY TURBO - TURBO REMOVED 81-F1-1647. TURBO INSTALLED 9/87-09471 EX BL 30. TURBO HAS DONE 499,390 KMS SINCE O/H.'.
**04.04.1991** Service defect: 'B - TRACTION MOTOR FLASHOVER - 50 T/M BRUSHES REPLACED-BRUSHES IN NOS 5 & 6 HAD BROKEN PIG TAILS.'.
**28.05.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**28.05.1991** Service defect: 'UN - NO FAULT FOUND - NO WATER LEAK FOUND.'.
**19.06.1991** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO HOUSING CHANGED & REASSEMBLED.'.
**19.06.1991** Service defect: 'A - TRACTION MOTOR FLASHOVER - CHANGED ALL BRUSHES & CLEANED UP NO 2 T/MOTOR,A/C FLASHOVER.'.
**19.06.1991** Service defect: 'A - MANUAL POWER CONTROL 'B'END DOES NOT WORK IN'.
**19.06.1991** Service defect: 'A - REVERSE.20/6.'.
**12.07.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - FG 100 MODULE REPLACED, A/C NO L24 V AT PIN 26.'.
**23.08.1991** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS UNBLOCKED, A/C LOW POWER LIGHT SHOWING ON PANEL.'.
**30.08.1991** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - MICRO SWITCH REPLACED IN 'B'END CONTROLLER,A/C MANUAL POWER NOT WORKING 'B'END.'.
**30.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REPLACED HOTPLATE C/BREAKER, A/C BROKEN.'.
**30.08.1991** Service defect: 'B - ENGINE - NO 6 ROCKER GEAR REPLACED - REMOVED FROM BL26.'.
**10.12.1991** Service defect: 'SW - BOGIE - TRANSFERRED TO TEMP BOGIES,SENT TO PT AUG FOR OVERHAUL.'.
**08.04.1992** Service defect: 'F - ENGINE - O/HAUL COMPLETED.'.
**14.04.1992** Service defect: 'SW - BOGIE - BOGIE REPAIRS COMPLETED.'.
**14.04.1992** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK OK.'.
**16.04.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 10 CYLINDER HEAD REPLACED,A/C GROMMET U/S CAUSING WATER LEAK.'.
**06.05.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - TM3 FLASHED OVER BOTTOM BRUSHHOLDER REPLACED TOP AND BOTTOM 3 BRUSHES REPLACED.OK.'.
**11.05.1992** Service defect: 'UN - BOGIE - TRI-MOUNT RUBBERS REPLACED.'.
**06.07.1992** Service defect: 'A - COOLING SYSTEM - COOLANT CHANGED.'.
**06.07.1992** Service defect: 'A - ENGINE CYLINDER HEADS - ALL HEAD NUTS REPLACED AND RE-TORQUED.'.
**24.09.1992** Service defect: 'B - ENGINE - ENGINE PROTECTION DEVICE CHANGED.'.
**24.09.1992** Service defect: 'B - FUEL SYSTEM - CHECKED

FUEL DILUTION,NONE FOUND.'.

**24.09.1992** Service defect: 'B - GENERAL - ENGINE ROOM DOOR CLOSER REPAIRED. HOOTER CORD REPAIRED. EXHAUST HOSE ON AIR FRIDGE REPLACED.'.

**24.09.1992** Service defect: 'B - OTHER BODY REPAIRS - 'A' END O/SIDE FRONT WIND SCREEN REPLACED.CRACKED BY STONES.'.

**11.11.1992** Service defect: 'UN - GENERAL UNABLE TO LIFT LOAD - DROPPING LOAD PROBLEM, FEEDBACK RESISTORS OK. TEST RUN TO GAWLER,PROBLEM PERSISTED, L.C. & R.A. MODULES CHANGED. LOCO'.

**12.11.1992** Service defect: 'TS - ELECTRICAL MISC. MODULES - L/R REPLACED, R.A., E.N., S.W. MODULES QUALIFIED,RADAR CONNECTIONS OK. LOCO OPERATION FAULTESS ON TEST RUN, A/C'.

**29.12.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - NO 2 RAD FAN CONTACTOR REPAIRED, A/C NOT PULLING IN.'.

**29.12.1992** Service defect: 'A - ENGINE - MARMON COUPLING RUBBERS ON COUPLING FROM HEAT EXCHANGER TO STRAINER BOX REPLACED.'.

**29.12.1992** Service defect: 'A - FUEL SYSTEM - AUTO FUEL SHUTOFF VALVE REPLACED, A/C LEAK.'.

**29.12.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - H.P. DISCHARGE VALVE STOPS REPLACED ON COMPRESSOR.'.

**29.12.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END INDEPENDANT BRAKE VALVE REPLACED, A/C LEAK FROM EXHAUST UNDERNEATH.'.

**22.02.1993** Service defect: 'UN - BOGIE - 'A' END LATERAL & TRIMOUNT SHOCKERS CHANGED A/C UNSERVICABLE'.

**22.02.1993** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - 'A' END TRIMOUNT SLIDEPLATE POLISHED & TRIMOUNT RUBBERS CHANGED.'.

**20.03.1993** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - FUEL PUMP SWITCH 'A'END REPLACED, A/C U/S.'.

**20.03.1993** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR CRANKSHAFT GUARD REPAIRED.'.

**20.03.1993** Service defect: 'C - OTHER BODY REPAIRS - 'B'END OBS/SIDE STEP REPAIRED.'.

**20.03.1993** Service defect: 'C - TRACTION MOTOR - 4 BRUSH HOLDERS HEIGHT ADJUSTED IN NO 6 T/M. 2 BRUSH HOLDERSHEIGHT ADJUSTED IN NO 4 T/M & ONE HOLDER CHANGED OUT.'.

**29.03.1993** Service defect: 'UN - BOGIE - BOGIES ROTATED.'.

**29.03.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - AXLE BOX SPRINGS REPLACED IN NO'S L3 & R5 WHEELSETS,A/C BROKEN.'.

**29.03.1993** Service defect: 'UN - ENGINE - NO'S 9,13 & 16 POWER ASSEMBLIES REPLACED, A/C U/S.'.

**29.03.1993** Service defect: 'UN - GENERAL - SERVICE WATER TANK REPAIRED,A/C LEAKING.'.

**19.04.1993** Service defect: 'UN - BOGIE - BOLT FITTED TO SAFETY CHAINS DRIVERS SIDE 'B' END.'.

**19.04.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NO. 16 HEAD REPLACED'.

**19.04.1993** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP A/C HUNTING.'.

**19.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - AIR FRIDGE PIPING REPLACED AND RECONNECTED'.

**19.04.1993** Service defect: 'UN - AIR CONDITIONING HP/LP SWITCH TO REPLACE'.

**29.04.1993** Service defect: 'UN - COMPRESSOR U/S,TO CHANGE OUT,LOCO TO TRAIL.29/4.'.

**01.06.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE POT REMOVED FROM 'B'END AND FITTED TO 'A' END A/C NIL IN STOCK. MICRO SWITCH REPLACED IN 24T CIRCUIT.'.

**02.06.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTORS CHECKED OK.'.

**02.06.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC B/GRIDS CHECKED OK.'.

**02.06.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS IN POWER AND DYNAMIC. NO.1 T/M HAS LUG BROKENOFF INTERNAL CABLE. LOCO RELEASED ON 5 T/M'S.'.

**02.06.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - 27 BRUSHES CHANGED A/C TOO SHORT. 3 ON T/M NO.2. 12 ON T/M NO.3. 3 ON T/M NO.5. 9 ON T/M NO.6.'.

**04.06.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - OILS FILLED ON NO 1 W/SET.'.

**04.06.1993** Service defect: 'SW - TRACTION MOTOR - NO 1 T/MOTOR REPLACED,A/C BRUSH HOLDER CONNECTION U/S.'.

**12.06.1993** Service defect: 'A - GENERAL - D/SIDE 'A'END BULLET PROOF WINDOW INSTALLED. 'A'END MILLIPEDE RUBBER FITTED. BLINDS REPAIRED & FITTED.'.

**12.06.1993** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADER GASKET REPLACED,A/C MISSING.'.

**12.06.1993** Service defect: 'A - TRACTION MOTOR FLASHOVER - NO 4 T/MOTOR CLEANED & PAINTED,A/C FLASH OVER.'.

**16.06.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE ON COMPRESSOR REPLACED.'.

**16.06.1993** Service defect: 'TS - TRACTION MOTOR - GROUND RELAY CHECK - NO 6 T/M SUSPECT,A/C LOW FLUCTATING READINGS.'.

**18.06.1993** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - NO 6 T/MOTOR REPLACED,A/C GROUND RELAYS. T/M IN- 81H1-1091. T/M OUT- 69E1-1051.'.

**30.07.1993** Service defect: 'UN - BOGIE - 'B'END TRI-MOUNT PADS REPLACED.'.

**14.08.1993** Service defect: 'UN - BOGIE - 'A'END RESILIENT RUBBERS REPLACED AND ONE SHOCKER 'A'END ANDONE SHOCKER 'B'END REPOSITIONED A/C ROUGH RIDING.'.

**24.08.1993** Service defect: 'UN - CONTACTOR INTERLOCKS - INTERLOCKS CHANGED ON NO.'S 1 AND 2 FAN CONTACTORS A/C NOT COMING IN.'.

**24.08.1993** Service defect: 'UN - EXHAUST - FUMES IN CAB REPORTED. EXHAUST TIGHTENED.'.

**24.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - PAD BOLTS FITTED TO CAB DOORS 'A' END.'.

**24.08.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO T/M BRUSHES CHANGED A/C ALL OK.'.

**25.08.1993** Service defect: 'SW - BOGIE - NO.6 INSIDE BRAKE STRAP MODIFIED A/C RUBBING ON WHEEL. DIFFERENT SIZE WHEELS NOW USED CAUSING

PROBLEM.'.

**25.08.1993** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - NO.6 WICKS CHECKED OK. AFTER TRIAL RUN.'.

**25.08.1993** Service defect: 'SW - EXHAUST - EXHAUST JOINT AT TURBO REPLACED A/C LEAKING AND FUMES ENTERING CAB.'.

**07.09.1993** Service defect: 'UN - DYNAMIC BRAKE - MICROSWITCH FOR BC & BG REPLACED, A/C OPEN. RE82 REPLACED, A/C OPEN. CHECKED FOR GROUND FAULT, 24T CHECKS OK. S311 ALSO'.

**14.09.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED ON 2,3,4 & 5 T/MOTORS. BRUSH HOLDER CHANGED ON NO 2 T/MOTOR, A/C JAMMED HAMMER.'.

**27.09.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 2 T/MOTOR REPLACED, A/C GR'S. T/M IN-70E1-1081. T/M OUT 81M1-1215.'.

**30.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - 'A'END DRIVERS SIDE WINDSCREEN REPLACED, A/C CRACKED. WINDOWWASHERS OK.'.

**16.11.1993** Service defect: 'B - BOGIE - BOGIE ROTATION COMPLETED. TRIMOUNT PADS REPAIRED. DIRECTION TEST COMPLETED.'.

**16.11.1993** Service defect: 'B - DYNAMIC BRAKE - DYNAMIC BRAKE CONTROL RHEOSTAT PROTECTION CIRCUIT BREAKER INSTALLED 'A'END. 'B'END DYNAMIC BRAKE POT CIRCUIT BREAKER'.

**16.11.1993** Service defect: 'B - TRACTION MOTOR EARTH - NO4 T/MOTOR REPLACED, A/C EARTH. T/M IN-69D1-1360. T/M OUT-81E1-1253.'.

**22.11.1993** Service defect: 'TS - ELECTRICAL MISC - RADAR TRANSCEIVER - CHECKED RADAR SIGNAL - ALL QUALIFIED OK.'.

**22.11.1993** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDERS CLEARED, A/C BLOCKED.'.

**24.11.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE POT & MICRO SWITCH REPLACED IN 'B'END.'.

**25.11.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - LOST AMPS - EN 101 MODULE REPLACED WITH EN 104 MODULE.'.

**16.12.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DYNAMIC BRAKE WIRING REPAIRED. BP2 WIRE REPLACED A/C BURNT.POWER MEGGERED 2M OHMS.'.

**16.12.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - 1 BRUSH CHANGED ON NO.2 MOTOR, A/C PULLED PIGTAILS.'.

**05.01.1994** Service defect: 'UN - TRACTION MOTOR - NO.6 T/M CHANGED A/C RISER BAR WINDING U/S, CAUSING F/OVERS.'.

**07.02.1994** Service defect: 'A - ENGINE PROTECTION - ENGINE PROTECTION DEVICE CHECKED OK.'.

**07.02.1994** Service defect: 'A - FUEL SYSTEM LINES - NO 3 FUEL LINE CHANGE, A/C LEAKING.'.

**07.02.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST COMPLETED OK.'.

**08.02.1994** Service defect: 'TS - FUEL SYSTEM INJECTORS - ENG SHUTDOWN - NO8 INJECTOR REPLACED A/C SIEZED. LOW OIL LINE TO GOV REPAIRED A/C CRACKED.'.

**10.02.1994** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED, A/C ARMATURE U/S. LOCO MOVEMENT TESTED OK IN POWER/DYN.'.

**14.02.1994** Service defect: 'TS - GENERAL - NO.2 T/M CUT-OUT AND LOCO SENT INTO TRAFFIC. MOTOR TO BE REPLACED WHEN ONE BECOMES AVAILABLE. PROBABLY FRI. 18/2/94.'.

**14.02.1994** Service defect: 'TS - TRACTION MOTOR - NO.2 T/M REPAIRS. REMOVED 9 O'CLOCK B/HOLDER A/C HAD SHORTE-D BETWEEN TWO CABLES RUNNING BETWEEN TWO B/HOLDERS.'.

**16.02.1994** Service defect: 'SW - TRACTION MOTOR - NO 2 T/MOTOR REPLACED,A/C SHORT BETWEEN TWO CABLES ADJACENT BRUSH HOLDER. T/M IN-75H1-1219. T/M OUT- 67C-C159. NO 2 T/M'.

**22.02.1994** Service defect: 'TS - ENGINE - RACKS ADJUSTED.'.

**22.02.1994** Service defect: 'TS - FUEL SYSTEM INJECTORS - NO 7 FUEL INJECTOR REPLACED, A/C SEIZED. NO 10 INJECTOR REPLACED, A/C FAILED POP TEST. INJECTOR ROCKER ARM BUTTON'.

**23.02.1994** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED EXCEPT NO'S 7,8 AND 10. LOCO TESTED & CHECKED OK.'.

**28.02.1994** Service defect: 'SW - AIR/CON TO REPAIR, PARTS REQ'D. TRAILING UNIT ONLY'.

**28.02.1994** Service defect: 'SW - 28/2.'.

**22.03.1994** Service defect: 'TW - INDEP. RELEASE FEATURE NOT WORKING. IND. RELEASE'.

**22.03.1994** Service defect: 'TW - VALVE CHANGED, NO DIFFERENCE. TO CHECK ON SERVICE.'.

**22.03.1994** Service defect: 'TW - 22/3/94.'.

**28.03.1994** Service defect: 'TS - NO FAULT FOUND - GC 102 MODULE - ALL AV AND CV CCT CHECKED THRO' TRAINLINE -SOLENOIDS IN GOV OK, LOCO MEGGERED FOR EARTHS OK. NO FAULT'.

**13.04.1994** Service defect: 'UN - GENERAL - FLUSH VALVE REPLACED, A/C RUST CAUSING VALVE TO OPEN. TOILETUNBLOCKED.'.

**13.04.1994** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 5 T/MOTOR HAD MAJOR FLASH OVER, A/C INTERNAL BUSBAR RUBBING ON ARMATURE. STRAIGHTENED AND REINSULATED. P=500K @'.

**13.04.1994** Service defect: 'UN - NO 5 T/M TO MONITOR, A/C ARMATURE AND INTERPOLE'.

**13.04.1994** Service defect: 'UN - CONDITION.13/4.'.

**18.04.1994** Service defect: 'SW - BOGIE - LATERALS CHECKED AND ADJUSTED. L5 RESILIENT RUBBER CHANGED.'.

**26.04.1994** Service defect: 'D - BATTERY MAINTENANCE - ALL BATTERIES TOPPED UP, A/C LOW WATER. ADJUSTED TO 72V.'.

**26.04.1994** Service defect: 'D - CONTACTOR INTERLOCKS - P6 INTERLOCK FOUND BROKEN, REPLACED AND CHECKED OK.'.

**26.04.1994** Service defect: 'D - GENERAL - AIR FRIDGE REPLACED, A/C WATER LEAK FROM WATER TANK.'.

**26.04.1994** Service defect: 'D - 4 SANDING NOZZLES REQ'D - NIL STOCK.26/4.'.

**06.05.1994** Service defect: 'UN - BOGIE - 2 SHOCK ABSORBERS REPLACED, A/C ROUGH RIDING.'.

**06.05.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - EXTENDED RANGE CONTACTOR REPLACED, A/C BURNT OUT.'.

**24.05.1994** Service defect: 'UN - ELECTRICAL MISC.

MODULES - MODULES SW AND SA CHECKED AND QUALIFIED OK, A/C W/SLIP. LOCO MEGGERED OK.'.

**24.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDERS CLEARED.'.

**24.05.1994** Service defect: 'UN - BROKEN SPRINGS ON R3 TO CHANGE.24/5.'.

**27.05.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 6 T/MOTOR REPLACED, A/C GROUND RELAYS.'.

**27.05.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**28.05.1994** Service defect: 'UN - ALTERNATOR - MAIN ALT CHECKED, 2 BRUSHES CHANGED ON SLIPRING, A/C SHORT.'.

**28.05.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - LOCO REPORTED GR'S - CONTACTORS CHECKED OK, T/MOTORS CHECKEDOK.'.

**10.06.1994** Service defect: 'UN - BOGIE - LOCO LIFTED TO CHECK CENTRE PLATES - 'A'END OK AND 'B'END OK. LOCO FOR TRIAL RUN TO DETERMINE ROUGH RIDING.'.

**10.06.1994** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT PROTECTOR TIGHTENED, A/C LOOSE.'.

**BL 35**

Details: locomotive 'BL 35 D' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $1471970
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-11
**Date Built:** 03.08.1984
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBAB

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 22.08.1990 | | |
| SW Service Mileage: | 1248321 KM | SW Service Date: | 18.12.1996 |
| A Service Mileage: | 1185277 KM | A Service Date: | 06.09.1996 |
| B Service Mileage: | 1303961 KM | B Service Date: | 03.01.1996 |
| C Service Mileage: | 930141 KM | C Service Date: | 01.07.1995 |
| D Service Mileage: | 1150079 KM | D Service Date: | 06.07.1996 |
| E Service Mileage: | 718953 KM | A Service Date: | 10.05.1994 |
| F Service Mileage: | 0 KM | A Service Date: | 22.08.1990 |
| WT Service Mileage: | 604174 KM | WT Service Date: | 21.10.1993 |
| US Service Mileage: | 1263155 KM | A Service Date: | 25.02.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**11.07.1989** Service defect: 'UN - COOLING SYSTEM - HEAT EXCHANGER COVER WELDED A/C CRACKED.'.

**11.07.1989** Service defect: 'UN - GENERAL - HATCH COVER BOLTS REPLACED.'.

**11.07.1989** Service defect: 'UN - GENERAL ACCIDENT - LOCO CHECKED OK A/C DERAILMENT.'.

**18.07.1989** Service defect: 'UN - BOGIE - NO1 BOGIE BOOKED VERY NOISY.GEARS CHECKED,SLIGHT WEAR,SHARP EDGE ON GEAR.VISUAL INSPECTION OF SUSPENSION COMPONENTS,OK.'.

**21.07.1989** Service defect: 'SW - BOGIE - 'A'END CENTRE WEAR PLATE REPLACED.'A'&'B'TRIMOUNT WEAR PADS REPLACED.A/C LOCO BOOKED FOR GRINDING NOISES FROM BOGIES.'.

**24.07.1989** Service defect: 'TS - DYNAMIC BRAKE - DP MODULE QUALIFIED OK.OCP RELAY RESET & TESTED OK.A/C DYN BRAKE FAULT LIGHT ON.'.

**28.07.1989** Service defect: 'SW - BOGIE - NO 1-5 GEARCASES TIGHTENED.'.

**02.08.1989** Service defect: 'UN - GENERAL - 'A'END F/MANS SIDE WINDOW REPAIRED.'.

**17.08.1989** Service defect: 'UN - AUXILLARY MACHINES - A/C GENERATOR/BLOWER MOUNTING BOLTS REPLACED A/C SHEARED OFF'.

**23.10.1989** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN MOUNTING BOLT REPLACED A/C BROKEN.'.

**23.10.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO6 CYL HEAD CHANGED A/C CRACKED.'.

**02.11.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - LEFT 1 RADIATER REPLACED A/C LEAKING'.

**17.11.1989** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.

**17.11.1989** Service defect: 'UN - TRACTION MOTOR - ALL TM'S CHANGED.(IN 81F11074,81M11155,81L11025,81G11135, 75111342,82B11019.)'.

**11.12.1989** Service defect: 'UN - BOGIE - 'B'END SHOCK ABSORBER TRI-MOUNT BRACKET REWELDED.'.

**21.12.1989** Service defect: 'UN - GENERAL - F/MANS SIDE SEAT MODIFIED.'.

**21.12.1989** Service defect: 'UN - NO1 END W/SCREEN WASHER TO REPAIR.21/12*'.

**03.01.1990** Service defect: 'C - BOGIE - R2 SLACK ADJUSTER REPLACED.'.

**03.01.1990** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - R4 SAND VALVE MOISTURE TRAP REPAIRED.'.

**16.01.1990** Service defect: 'WT - TO MED BRAKE ADJUST AND HAND BRAKE REPAIR'.

**23.01.1990** Service defect: 'UN - BOGIE - TRI-MOUNT SHOCKER BRACKET REPAIRED A/C BROKEN,SHOCKER REPLACED'.

**07.02.1990** Service defect: 'UN - GENERAL - 'A'END F/MANS SIDE WINDOW REPLACED.'.

**11.03.1990** Service defect: 'UN - BOGIE - L2 BRAKE CYLINDER REPLACED A/C HOLED.'.

**11.04.1990** Service defect: 'UN - OIL LEAKS ON OIL COOLER.11/4*'.

**27.04.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN MOUNTING BOLT REPLACED.'.

**08.05.1990** Service defect: 'SW - TOILET WATER TANK LEAKING.8/5*'.

**10.05.1990** Service defect: 'UN - SERVICE WATER TANK LEAKING.'.

**17.05.1990** Service defect: 'UN - DYNAMIC BRAKE -

D/BRAKE FAN BRUSHES REPLACED.'.

**17.05.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DG MODULE QUALIFIED.'.

**17.05.1990** Service defect: 'UN - D/BRAKE FAN MOTOR HAS BAD FLATS.DG MODULE TO'.

**17.05.1990** Service defect: 'UN - MONITOR.'.

**01.06.1990** Service defect: 'SW - BOGIE - TEMP BOGIES FITTED.'.

**22.08.1990** Service defect: 'F - ELECTRICAL MISCELLANEOUS - TRACTION MOTOR CUT-OUT AND SELF LOAD MODIFICATION INSTALLED.EYE BALL LIGHTS FITTED (ON TEST). COUPLING LIGHTS FITTED.'.

**22.08.1990** Service defect: 'F - ENGINE - ACCESSORY DRIVE HOUSING REPLACED WITHONE FROM CL 16 ACCOUNT ORIGINAL ONE CRACKED. MECHANICALLY BONDED RADIATORS FITTED.'.

**22.08.1990** Service defect: 'F - ENGINE - ALL TOP DECK MACHINED. NEW MAIN, BIG END & CAMSHAFT BEARINGSWATER & OIL PUMPS O/HAULED(LUBE OIL MODIFIED). NEW ROCKER'.

**22.08.1990** Service defect: 'F - ENGINE - ASSEMBLIES FITTED. RECONDITIONED VALVE BRIDGES. GEAR TYPE HARMONIC BALANCER FITTED. 16 NEW LINERS & PISTONS(KORODY'.

**22.08.1990** Service defect: 'F - ENGINE - KOLYER). 16 RECONDITIONED HEADS. NEW CARRIER INSERTS AND TWONEW CARRIERS. LOWER LINER INSERTS RENEWED. CRAB PLATES INS.'.

**22.08.1990** Service defect: 'F - ENGINE - O/HAUL - COMPLETED. ENGINE EX BL26E SERIAL NUMBER 81M1-1085 INSTALLED INTO BL 35D. (1,000,000 MILE POWER ASSEMBLIES).'.

**22.08.1990** Service defect: 'F - MECHANICAL MAINTENANCE - AIR BRAKE - COALESCAR AIR DRYER FITTED. BRAKE PIPE COCKS DUPLICATED. MARKER LIGHT BOXES MODIFIED. TWO MAN CREW CABINET & TRICKLE'.

**22.08.1990** Service defect: 'F - OTHER BODY REPAIRS - CHARGER FITTED. INSPECTORS SEATS FITTED (V/LINE). DYN. BKE. AND RADIATOR FANS OVERHAULED.'.

**03.09.1990** Service defect: 'SW - GENERAL - 'F'SERVICE COMPLETED.'.

**19.10.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - NO1 DRIVERS SIDE SAND PIPE REPAIRED.'.

**29.10.1990** Service defect: 'UN - VIGILANCE - VIGILANCE CONTROL REPAIRED.'.

**01.11.1990** Service defect: 'UN - FUEL SYSTEM LINES - NO 1,3,4 FUEL LINES REPLACED A/C LEAKING.'.

**21.11.1990** Service defect: 'UN - BOGIE - NO2 GEARCASE TIGHTENED.'.

**21.11.1990** Service defect: 'UN - NO6 GEARCASE TO TIGHTEN.NO2 HORNSTAY BENT.21/11*'.

**11.12.1990** Service defect: 'B - ALTERNATOR - ALTERNATOR POSITIVE DIODE REPLACED A/C SHORTED.'.

**11.12.1990** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - 2 FUSES REPLACED ON NO1 RADITOR FAN.'.

**22.01.1991** Service defect: 'SW - RADIO REPAIR - RADIO REPAIRS COMPLETED'.

**21.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED A/C ODOMETER.'.

**22.05.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - 40 TM BRUSHES REPLACED A/C SHORT,PIGTAILS OR FRAYED BRAIDS, ALTERNATOR CHECKED OK.P = 20 MEG. OHMS.'.

**28.06.1991** Service defect: 'TS - ELECTRICAL MISC. MODULES - GC 102 MODULE REPLACED, A/C NOT POWERING TO N4 IN DYN/BRAKE.'.

**28.06.1991** Service defect: 'TS - GENERAL - 'B'END D/S MIRROR REPAIRED.'.

**28.06.1991** Service defect: 'TS - TRACTION MOTOR EARTH - NO 1 T/MOTOR REPLACED,A/C EARTH IN INTERPOLES.IN-66-A1-1470.OUT-82-B1-1019.'.

**09.08.1991** Service defect: 'UN - BOGIE - SUSPENSION BEARINGS & GEARCASE CHECKED OK.NO 5 CAP REPLACED.'.

**09.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L3 & R3 WICKS REPLACED.'.

**20.08.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 5 T/M FLASHED,REPLACED ALL BRUSHES.REST OF T/M'S OK.P=20M'.

**26.08.1991** Service defect: 'UN - TRI-MOUNT RUBBERS TO REPLACE,NIL PARTS MPC.GEAR'.

**26.08.1991** Service defect: 'UN - CASES & SPRINGS TO EXAMINE NEXT SERVICE.26/8.'.

**12.09.1991** Service defect: 'A - BOGIE - ALL TRI-MOUNT RUBBER PADS REPLACED.'.

**12.09.1991** Service defect: 'A - GENERAL - WINDSCREEN WASHERS REPAIRED,'B'END DRIVERS BLIND REPAIRED.'.

**12.09.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - HOLE IN SAND PIPE REPAIRED,WELDED.'.

**12.09.1991** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO 3 RAD FAN MOUNTINT BOLTS REWELDED.RAD FAN PLUGS TIGHTENEDA/C LOOSE.'.

**19.09.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L1,2,3,4 & 6.R1,2,3,4 & 6 WICKS CHANGED,A/C DIRTY.'.

**24.09.1991** Service defect: 'TS - BOGIE REPAIRS - ACCIDENT - DERAILMENT DAMAGE REPAIRED.'.

**24.09.1991** Service defect: 'TS - OTHER BODY REPAIRS - COW CATCHER REPAIRED'.

**12.10.1991** Service defect: 'TS - BOGIE - BOGIE LIFT & INSTALLATION COMPLETED.'.

**12.10.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER INDICATORS FITTED & PAINTED.'.

**12.10.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE TAKEN FROM CL 16,A/C ORIGINAL ONE FAILED WITH AXLE BOX.'.

**14.11.1991** Service defect: 'UN - BOGIE - TRI-MOUNTS REPAIRED,A/C BADLY SCORED.'.

**14.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LINES REPAIRED,A/C BROKEN.'.

**22.11.1991** Service defect: 'UN - ENGINE AIR FILTERS - ENGINE AIR FILTERS REPLACED,A/C 6'VACUUM.'.

**22.11.1991** Service defect: 'UN - NO FAULT FOUND - NOISE IN NO 6 T/MOTOR CHECKED OK.WICKS,GEARCASE & AXLE BOXESON NO 6 CHECKED OK,NO FAULT FOUND.'.

**22.11.1991** Service defect: 'UN - OTHER BODY REPAIRS - STEPS WELDED,A/C CRACKED.'.

**24.12.1991** Service defect: 'UN - BOGIE - TRI-MOUNT SLIDER REPLACED.'.
**10.01.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - AIR BLOW AROUND E.C.S. REPAIRED.'.
**10.01.1992** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO BRUSHES CHANGED. A/C FLUCTUATING.'.
**16.03.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - BOTH PS-11 MODULES REPLACED AND MODULE CIRCUIT BREAKER. A/C C/B KEPT TRIPPING AND WOULD NOT RESET.'.
**17.03.1992** Service defect: 'TS - ELECTRICAL MISC. MODULES - PS-11 MODULE REPLACED.A/C SHORTED.'.
**31.03.1992** Service defect: 'A - EXHAUST - EXHAUST BOLTS ALL TIGHTENED.'.
**31.03.1992** Service defect: 'A - INSULATION WORN - CABLE ON DRIVERS SIDE BRAKE GRIDS WORN THROUGH TO WIRE MESH.THICK PIECE OF RUBBER SECURED AROUND CABLE.'.
**31.03.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 26D CONTROL VALVE REPLACED.-TAKEN FROM AL20. A/C NIL IN STOCK MPC.'.
**31.03.1992** Service defect: 'A - TRACTION MOTOR - BOTTOM BRUSH HOLDERS ON NO.1 AND NO.3 T/MS TO MONITOR A/C SPRINGS SLIGHTLY WORN.'.
**31.03.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 63 T/M CHANGED A/C CONDEMNING LIMIT.'.
**23.04.1992** Service defect: 'TS - GENERAL LOSS OF POWER - REPLACED LUGS IN GENERATOR FIELDS.DIODE BANK REPLACED.LOAD TESTED OK,A/C NO POWER.'.
**20.05.1992** Service defect: 'UN - BOGIE - TRI-MOUNT FRAMES REPLACED & NEW PADS FITTED.'.
**01.06.1992** Service defect: 'TS - GENERAL LOSS OF POWER - MAIN SWITCH ON 'A'END THROTTLE REPLACED,TESTED OK,A/C NO REVS.'.
**28.06.1992** Service defect: 'D - COOLING SYSTEM - COOLANT CHANGED A/C HIGH CHLORIDE LEVELS.'.
**28.06.1992** Service defect: 'D - FUEL SYSTEM LINES - NO.6 FUEL LINE REPLACED.'.
**28.06.1992** Service defect: 'D - MAIN GENERATOR BRUSHES - NO.3 SLIP RING BRUSH REPLACED.'.
**28.06.1992** Service defect: 'D - MECHANICAL EQUIPMENT - 'B' PACKAGE AND COUPLER AND YOLK REPLACED.-'D' POCKET WELDED'.
**28.06.1992** Service defect: 'D - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO HEAD REPLACED A/C THREAD WORN OFF.'.
**27.07.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - LOCO H/LGHTS REPLACED.-VOLTAGE ADJUSTED TO 65V H/BEAM 45V LOW BEAM.'.
**27.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - SERVICE WATER TANK REPAIARED.'.
**03.08.1992** Service defect: 'UN - BATTERY MAINTENANCE - 2 BATTERIES CHANGED A/C ONE DEAD CELL IN EACH.'.
**22.09.1992** Service defect: 'A - BOGIE - NO'S 2,3,4,5,&6 GEAR CASE CLAMPS TIGHTENED.'.
**22.09.1992** Service defect: 'A - COOLING SYSTEM - ENGINE COOLANT CHANGED.'.
**22.09.1992** Service defect: 'A - DYNAMIC BRAKE - BOTH DYNAMIC RHEOSTATS REPLACED, A/C DAMAGED. NO FAULT FOUNDIN D/B CIRCUITS.'.
**22.09.1992** Service defect: 'A - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED A/C OPEN CIRCUITED,LOAD TESTED OK.'.
**22.09.1992** Service defect: 'A - OTHER BODY REPAIRS - EXHAUST HATCH TIGHTENED.'.
**23.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. BOGIE AIR LINE REPAIRED.'.
**23.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - STEP REWELDED.'.
**02.11.1992** Service defect: 'UN - BOGIE - 'B'END TRI-MOUNT RUBBERS REPLACED, A/C TORN. 'B'END SHOCK ABSORBER BRACKET REPAIRED, A/C BROKEN.'.
**02.11.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE TESTED OK IN YARD.'.
**02.11.1992** Service defect: 'UN - GENERAL - LAMP HOLDER IN ENGINE ROOM REPLACED.'.
**11.11.1992** Service defect: 'UN - BOGIE - 'A'SHOCKER RUBBERS REPLACED.'.
**11.11.1992** Service defect: 'UN - DYNAMIC BRAKE - B CONTACTOR REPLACED, A/C DYN/BRAKE NOT WORKING DUE TO STICKING.'.
**11.11.1992** Service defect: 'UN - 'B'END TRI-MOUNT SHOCKER TO REPLACE.11/11.'.
**21.11.1992** Service defect: 'UN - BOGIE - SHOCK ABSORBER 'B'END BOLSTER REPLACED.'.
**21.11.1992** Service defect: 'UN - GENERAL - OBS/WINDOW REPLACED, A/C CRACKED.'.
**21.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR 'SQUARE D' REPLACED, A/C BROKEN AIR CONNECTION.'.
**04.01.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RE6 RESISTOR REPLACED, A/C OPEN CIRCUITED. LOCO LOAD TESTED OK, HUNTING FAULT CLEARED.'.
**08.02.1993** Service defect: 'UN - DYNAMIC BRAKE - TRIAL RUN, A/C DYN/BRAKE. 1 BLOWER MOTOR CHANGED, LOAD OK.'.
**19.02.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - GF CONTACTOR REPLACED, A/C LOOSE MECHANISM PREVENTING CONTACT FROM PICKING UP, LOST D/B.'.
**25.02.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONING REGASSED & LEAK REPAIRED.'.
**25.02.1993** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTOR NO 3 REPLACED A/C SLIPPED PINION.'.
**08.03.1993** Service defect: 'A - BOGIE - R6 GEAR CASE SPACER INSERTED.'.
**08.03.1993** Service defect: 'A - DYNAMIC BRAKE - CABLE RUBBING ON DYN/BRAKE TANK INSULATED WITH RUBBER.'.
**13.03.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - BOGIES ROTATED A/C FLANGE WEAR'.
**13.03.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - SOUND WARNING - AIR LINE TO 'A' END HORNS REPAIRED A/C BROKEN FITTING UNDER CAB FLOOR 'A' END.'.
**15.03.1993** Service defect: 'UN - TRACTION MOTOR - NO 3 T/M CHECKED,BRUSHES LIFTED & ARMATURE DOWN TO EARTH. RELEASED WITH NO 3 T/M CUT OUT UNTIL ONE IS AVAILABLE.'.
**15.03.1993** Service defect: 'UN - NO 3 T/M CUT OUT.15/3.'.
**18.03.1993** Service defect: 'SW - TRACTION MOTOR - NO 3 T/M REPLACED,A/C ARMATURE TO EARTH. T/M

IN-67D-C165. T/M OUT-81K1-1359.'.

**10.06.1993** Service defect: 'C - BOGIE - MILLIPEDE SCRAPERS FITTED TO 'A'END BOGIE.'.

**10.06.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1 & L5 WICKS REPLACED.'.

**10.06.1993** Service defect: 'C - GENERAL - BOTH SEATS 'A'END CAB FITTED.'.

**10.06.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDER MODS COMPLETED.'.

**10.06.1993** Service defect: 'C - STARTER MOTOR - BOTTOM STARTER REPLACED,A/C SOLENOID SWITCH U/S.'.

**10.06.1993** Service defect: 'C - VIGILANCE - VIG BUTTONS RELOCATED.'.

**05.07.1993** Service defect: 'UN - BOGIE - 'A'END LATERAL SHOCKER REPLACED.'.

**05.07.1993** Service defect: 'UN - 'B'END PACKAGE TO MONITOR.5/7/93.'.

**09.08.1993** Service defect: 'UN - BOGIE - TRI-MOUNT RUBBERS CHANGED BOTH ENDS, 'A'&'B'END.'.

**09.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - MARMON COUPLING RUBBERS REPLACED ON PIPE TO OIL STRAINER BOXTURBO OIL FILTER LINE GASKETS REPLACED.'.

**20.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL LEAK REPAIRED A/C PIPE FITTING BELOW OIL PUMP TO BLOCK ELBOW LEAKING. PIPE FITTING SPLIT.'.

**28.08.1993** Service defect: 'A - ALTERNATOR - TOP FRONT BRUSH CHANGED ON ALTERNATOR.'.

**28.08.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R5 WICK REPLACED, A/C DIRTY.'.

**28.08.1993** Service defect: 'A - DYNAMIC BRAKE - ONE BRUSH CHANGED ON 'A'END DYN/BRAKE MOTOR, A/C PULLED PIGTAIL.'.

**28.08.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES CHANGED. NO 4 BRUSH HOLDER CHANGED ON NO1 T/MOTOR, A/C LOOSE HAMMER.'.

**05.09.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY REPLACED.'.

**03.10.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - 4 BRUSHES CHANGED IN NO.2 T/M, 6 IN NO.4, 3 IN NO. 6. ALL WERE VERY SHORT, THE HAMMERS ALMOST TOUCHING THE B/HOLDER.'.

**13.10.1993** Service defect: 'UN - OTHER BODY REPAIRS - 'A'END DRIVERS SIDE CAB DOOR WINDOW REPLACED A/C BROKEN.'.

**15.11.1993** Service defect: 'B - BOGIE - NOSE SUSPENSION TOP PLATES, CRACKS FOUND AND WELDED.'.

**15.11.1993** Service defect: 'B - ELECTRICAL MISC - RADAR TRANSCEIVER - LOSING RADAR SIGNAL AND DROPPING LOAD, ADJUSTED TO 45DEGS.'.

**15.11.1993** Service defect: 'B - GENERAL - DRIVERS SIDE STEP WELDED AND RESECURED.'.

**15.11.1993** Service defect: 'B - LUBRICATING SYSTEM - PIPE TO OIL PUMP LEAKING - GASKETS REPLACED.'.

**15.11.1993** Service defect: 'B - NO 16 INJECTOR TO CHANGE, A/C WET PISTON, NO 4'.

**15.11.1993** Service defect: 'B - HEAT SHROUD DAMAGED, TO REPLACE.15/11.'.

**24.12.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRE BROKEN OFF OF HOT PLATE REPAIRED,A/C NIL STOCK OF NEW ELEMENTS.'.

**24.12.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - WET SANDERS CLEARED'.

**01.01.1994** Service defect: 'TW - TRACTION MOTOR BRUSHES - ALL BRUSHES ON NO.4 T/M CHANGED, A/C SHORT.'.

**26.01.1994** Service defect: 'UN - OTHER BODY REPAIRS - OBS/SIDE WINDOW REPLACED 'B'END.'.

**14.02.1994** Service defect: 'A - BROKEN PIPE - TURBO OIL SOAK BACK PIPE RE-WELDED, A/C CRACKED.'.

**14.02.1994** Service defect: 'A - FUEL SYSTEM INJECTORS - NO.16 INJECTOR CHECKED, A/C WET PISTON. INJECTOR CHECKED OK.'.

**22.03.1994** Service defect: 'TW - 'A'END BOLSTER SHOCKER RUBBERS U/S. 'A'END TRI-'.

**22.03.1994** Service defect: 'TW - MOUNT SHOCKER U/S. 'A'END TRI-MOUNT RUBBER U/S.'.

**22.03.1994** Service defect: 'TW - 'B'END TRI-MOUNT RUBBERS U/S.22/3/94.'.

**30.03.1994** Service defect: 'TS - BOGIE - ALL TRIMOUNT RUBBERS CHANGED, TRIMOUNT WEAR PADS CHANGED 'B'END. LATERAL SHOCK ABSORBER CHANGED 'A'END.'.

**30.03.1994** Service defect: 'TS - ELECTRICAL MISC. MODULES - GC 102 MODULE REPLACED.'.

**30.03.1994** Service defect: 'TS - ENGINE AIR FILTERS - ENGINE AIR FILTERS CHANGED.'.

**30.03.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGED. LOCO LOAD TESTED, 2162 KW AT 13LB BOOST. LR AT 90

**02.05.1994** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER REPLACED.'.

**10.05.1994** Service defect: 'E - CONTACTOR MISCELLANEOUS - D/BRAKE EXTENDED RANGE CONTACTOR REPLACED, A/C CONTACT TIPS MELTED AND ARC COIL MELTED.'.

**10.05.1994** Service defect: 'E - DYNAMIC BRAKE - D/BRAKE MICRO SWITCHES (2) REPLACED. RHEOSTSAT REPLACED. 'A'END.'.

**10.05.1994** Service defect: 'E - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - BC1 WIRE REPLACED COMPLETLY, PC1 WIRE PARTLY REPLACED.'.

**10.05.1994** Service defect: 'E - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE FINAL FILTER CHANGED.'.

**30.05.1994** Service defect: 'TS - COOLING SYSTEM WATER PUMP - WATER PUMP SEAL REPLACED ON LHS W/PUMP.'.

**30.05.1994** Service defect: 'TS - RADIATOR/PRESSURISING FAN - NO 1 RAD FAN REPLACED. IN- 81K20. OUT-81K16.'.

**03.06.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY REPLACED, A/C U/S.'.

**14.06.1994** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 1 T/M CLEANED, A/C FLASH OVER. ALL BRUSHES REPLACED. LOCO RELEASED, A/C TRAFFIC REQUIREMENTS.'.

**17.06.1994** Service defect: 'SW - BOGIE - 'A'END SHOCKER REPOSITIONED CORRECTLY.'.

**17.06.1994** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - NO 3 T/MOTOR CHANGE OUT COMPLETED, A/C GR'S.'.

**22.06.1994** Service defect: 'UN - VIGILANCE - VIG CONTROL PIPE REPAIRED, A/C HOLED.'.

**30.06.1994** Service defect: 'UN - TRACTION MOTOR - T/MOTOR NO'S 2 AND 3 CLEANED, BLOWN OUT, BRUSHES CHANGED. NO 3 T/MOTOR 6 O'CLOCK BRUSH HOLDER REPLACED. LOCO MEGGERS'.
**99.99.9999** Service defect: 'B - B SCHEDULED SERVICE'.

## 2.8 Locomotive classification starting with 'BU'

**BU 1**

Details: locomotive 'BU 1 H' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.6m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 11.08.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** EX 605
**BSG Code:** LSA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 10.01.1996 | | |
| SW Service Mileage: | 48712 KM | SW Service Date: | 10.01.1996 |
| US Service Mileage: | 16362 KM | A Service Date: | 20.03.1995 |

**BU 2**

Details: locomotive 'BU 2 Q' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.6m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.09.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** EX 601
**BSG Code:** LSA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 02.01.1996 | | |
| SW Service Mileage: | 28553 KM | SW Service Date: | 07.06.1995 |
| US Service Mileage: | 28553 KM | A Service Date: | 02.01.1996 |

**BU 3**

Details: locomotive 'BU 3 C' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.6m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 21.09.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** EX 604
**BSG Code:** LSA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 18.01.1996 | | |
| SW Service Mileage: | 50993 KM | SW Service Date: | 18.01.1996 |
| US Service Mileage: | 39539 KM | A Service Date: | 08.11.1995 |

**BU 4**

Details: locomotive 'BU 4 L' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.6m
**Tare Weight:** 110tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 12.10.1994
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** EX 600 CL LOCO
**BSG Code:** LSA

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 14.04.1996 | | |
| SW Service Mileage: | 27039 KM | SW Service Date: | 01.06.1995 |
| US Service Mileage: | 2710 KM | A Service Date: | 27.01.1995 |

## 2.9 Locomotive classification starting with 'BVI'

**BVIC 61**

Details: locomotive 'BVIC 61 E' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.2m
**Tare Weight:** 113.3tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1952
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1120kw

**Remarks:** LOCO IS A 'B' CLASS ENGINE
**BSG Code:** LBVO

**BVIC 64**

Details: locomotive 'BVIC 64 X' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.2m
**Tare Weight:** 113.3tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1952
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1120kw
**Remarks:** LOCO IS A 'B' CLASS ENGINE
**BSG Code:** LBVO

**BVIC 65**

Details: locomotive 'BVIC 65 R' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.2m
**Tare Weight:** 113.3tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1952
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1120kw
**Remarks:** LOCO IS A 'B' CLASS ENGINE
**BSG Code:** LBVO

**BVIC 75**

Details: locomotive 'BVIC 75 C' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.2m
**Tare Weight:** 113.3tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1952
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1120kw
**Remarks:** LOCO IS A 'B' CLASS ENGINE
**BSG Code:** LBVO

**BVIC 76**

Details: locomotive 'BVIC 76 L' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.2m
**Tare Weight:** 113.3tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1952
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1120kw
**Remarks:** LOCO IS A 'B' CLASS ENGINE
**BSG Code:** LBVO

## 2.10 Locomotive classification starting with 'C'

**C 501**

Details: locomotive 'C 501 B' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V C-1
**Date Built:** 01.12.1977
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED 'GEORGE BROWN'
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 21.04.1997 | | |
| SW Service Mileage: | 3488655 KM | SW Service Date: | 14.03.1997 |
| A Service Mileage: | 3464292 KM | A Service Date: | 29.01.1997 |
| B Service Mileage: | 3402029 KM | B Service Date: | 05.10.1996 |
| C Service Mileage: | 3309550 KM | C Service Date: | 11.04.1996 |
| US Service Mileage: | 3506256 KM | A Service Date: | 21.04.1997 |

**09.03.1990** Service defect: 'UN - GENERAL SHUTDOWN - BOOKED FOR SHUTDOWN.CHECKED OK IN DEPOT.'.

**C 502**

Details: locomotive 'C 502 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V C-1
**Date Built:** 01.01.1978
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 14.04.1997 | | |
| SW Service Mileage: | 3287695 KM | SW Service Date: | 01.04.1997 |
| A Service Mileage: | 3257140 KM | A Service Date: | 23.01.1997 |
| B Service Mileage: | 3200194 KM | B Service Date: | 17.10.1996 |
| C Service Mileage: | 3099731 KM | C Service Date: | 13.04.1996 |
| US Service Mileage: | 3293938 KM | A Service Date: | 14.04.1997 |

**15.01.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - AUX CONTACTS ON RELAY RA.WIRE NO'S 8C & 8L OPEN CIRCUIT. READJUSTED & OK.'.
**09.05.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE RESET A/C TRIPPED.'.

### C 503

Details: locomotive 'C 503 T' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V C-1
**Date Built:** 01.12.1977
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 08.01.1997 | | |
| SW Service Mileage: | 3139363 KM | SW Service Date: | 18.10.1996 |
| A Service Mileage: | 3087250 KM | A Service Date: | 29.07.1996 |
| B Service Mileage: | 3142801 KM | B Service Date: | 30.10.1996 |
| C Service Mileage: | 3027479 KM | C Service Date: | 19.04.1996 |
| US Service Mileage: | 3168516 KM | A Service Date: | 11.12.1996 |

### C 504

Details: locomotive 'C 504 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V C-1
**Date Built:** 01.12.1977
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 02.04.1997 | | |
| SW Service Mileage: | 3455542 KM | SW Service Date: | 20.02.1997 |
| A Service Mileage: | 3352615 KM | A Service Date: | 25.08.1996 |
| B Service Mileage: | 3402099 KM | B Service Date: | 21.11.1996 |
| C Service Mileage: | 3297320 KM | C Service Date: | 15.05.1996 |
| US Service Mileage: | 3477468 KM | A Service Date: | 02.04.1997 |

### C 505

Details: locomotive 'C 505 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V C-1
**Date Built:** 01.12.1977
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 07.04.1997 | | |
| SW Service Mileage: | 2790891 KM | SW Service Date: | 09.01.1997 |
| A Service Mileage: | 2746410 KM | A Service Date: | 26.09.1996 |
| B Service Mileage: | 2845683 KM | B Service Date: | 07.04.1997 |
| C Service Mileage: | 2710820 KM | C Service Date: | 22.05.1996 |
| US Service Mileage: | 2797786 KM | A Service Date: | 22.01.1997 |

### C 506

Details: locomotive 'C 506 A' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.12.1977
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 10.04.1997 | | |
| SW Service Mileage: | 3170580 KM | SW Service Date: | 14.02.1997 |
| A Service Mileage: | 3150179 KM | A Service Date: | 13.01.1997 |
| B Service Mileage: | 3090582 KM | B Service Date: | 26.09.1996 |
| C Service Mileage: | 2979697 KM | C Service Date: | 09.03.1996 |
| US Service Mileage: | 3189658 KM | A Service Date: | 27.03.1997 |

**19.07.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE RHEOSTAT REPAIRED A/C NO D/BRAKE.'.

### C 507

Details: locomotive 'C 507 J' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V C-1
**Date Built:** 01.12.1977
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 28.04.1997 | | |
| SW Service Mileage: | 3103458 KM | SW Service Date: | 28.04.1997 |
| A Service Mileage: | 3048661 KM | A Service Date: | 14.01.1997 |
| B Service Mileage: | 3098200 KM | B Service Date: | 18.04.1997 |
| C Service Mileage: | 2940077 KM | C Service Date: | 11.07.1996 |
| WT Service Mileage: | 453131 KM | WT Service Date: | 13.10.1992 |
| US Service Mileage: | 3092797 KM | A Service Date: | 08.04.1997 |

### C 508

Details: locomotive 'C 508 S' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V C-1
**Date Built:** 01.01.1978
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 19.04.1997 | | |
| SW Service Mileage: | 3048793 KM | SW Service Date: | 06.03.1997 |
| A Service Mileage: | 3072576 KM | A Service Date: | 19.04.1997 |
| B Service Mileage: | 3025699 KM | B Service Date: | 16.01.1997 |
| C Service Mileage: | 2866494 KM | C Service Date: | 06.03.1996 |
| US Service Mileage: | 3012453 KM | A Service Date: | 21.12.1996 |

**29.08.1990** Service defect: 'UN - FUEL SYSTEM - HOLE IN FUEL TANK.RETURNED TO V/LINE FOR REPAIRS.'.
**29.08.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L4 SAND TRAP REPAIRED.'.

### C 509

Details: locomotive 'C 509 E' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V C-1
**Date Built:** 01.12.1977
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 24.04.1997 | | |
| SW Service Mileage: | 2984425 KM | SW Service Date: | 22.11.1996 |
| A Service Mileage: | 3007228 KM | A Service Date: | 20.01.1997 |
| B Service Mileage: | 2957749 KM | B Service Date: | 20.09.1996 |
| C Service Mileage: | 2896386 KM | C Service Date: | 11.06.1996 |
| D Service Mileage: | 3058232 KM | D Service Date: | 24.04.1997 |
| US Service Mileage: | 3030138 KM | A Service Date: | 14.03.1997 |

**03.08.1989** Service defect: 'UN - GENERAL SHUTDOWN - OVERSPEED & ENGINE PROTECTION DEVICES TRIPPED.ENGINE CHECKEDNO FAULT FOUND.'.
**01.08.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE POTENTIOMETER FAULTY,RETURNED TO V/LINE FOR REPAIRS.'.

### C 510

Details: locomotive 'C 510 A' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 19.8m
**Tare Weight:** 134tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V C-1
**Date Built:** 01.12.1977
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 24.04.1997 | | |
| SW Service Mileage: | 2932634 KM | SW Service Date: | 19.09.1996 |
| A Service Mileage: | 2999834 KM | A Service Date: | 18.02.1997 |
| B Service Mileage: | 2804299 KM | B Service Date: | 14.02.1996 |
| C Service Mileage: | 2957647 KM | C Service Date: | 20.11.1996 |
| US Service Mileage: | 3026748 KM | A Service Date: | 24.04.1997 |

**13.07.1990** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - BOOKED FOR G/RELAY'S & WHEELSLIP.RETURNED TO V/LINE FOR REPAIRS.'.

**28.08.1990** Service defect: 'UN - VIGILANCE - VIGILANCE BOOKED FAULTY.CHECKED IN DEPOT NO FAULT FOUND.'.

## 2.11 Locomotive classification starting with 'CCS'

**CCS 23**

Details: locomotive 'CCS 23 R' in AN 'Tasmania Division'.

**Owner:** VAN DIEMAN
**Operator:** C
**Length Over Headstocks:** 13.6m
**Tare Weight:** 57.1tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1955
**Operating System:** DON RIVER RAILWAY
**Intended Use:** MAINLINE
**Installed Power:** 400kw
**Remarks:** VAN DIEMAN LIGHT RAILWAY SOCIETY INC
**BSG Code:** LTSO

**CCS 25**

Details: locomotive 'CCS 25 M' in AN 'Tasmania Division'.

**Owner:** VAN DIEMAN
**Operator:** C
**Length Over Headstocks:** 13.6m
**Tare Weight:** 57.1tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1906
**Operating System:** DON RIVER RAILWAY
**Intended Use:** MAINLINE
**Installed Power:** 400kw
**Remarks:** VAN DIEMAN LIGHT RAILWAY SOCIETY INC
**BSG Code:** LTSO

## 2.12 Locomotive classification starting with 'CK'

**CK 1**

Details: locomotive 'CK 1 L' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**Remarks:** EX V/LINE T 401
**BSG Code:** LBAI

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 05.03.1997 | | |
| SW Service Mileage: | 1518455 KM | SW Service Date: | 30.10.1996 |
| A Service Mileage: | 1510864 KM | A Service Date: | 05.08.1996 |
| B Service Mileage: | 1501624 KM | B Service Date: | 13.05.1996 |
| C Service Mileage: | 1532182 KM | C Service Date: | 07.02.1997 |
| US Service Mileage: | 1534883 KM | A Service Date: | 05.03.1997 |

**27.04.1993** Repair 'VEHICLE RECLASSIFY'.
**27.04.1993** Issued at location 'Australian National' with a previous code of locomotive 'T 401 L'

**CK 2**

Details: locomotive 'CK 2 U' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**Remarks:** EX V/LINE T 404
**BSG Code:** LBAI

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| SW Service Mileage: | 1696001 KM | SW Service Date: | 07.03.1995 |
| A Service Mileage: | 1673459 KM | A Service Date: | 20.10.1994 |
| B Service Mileage: | 1657417 KM | B Service Date: | 29.06.1994 |
| C Service Mileage: | 1698123 KM | C Service Date: | 31.03.1995 |
| D Service Mileage: | 1590481 KM | D Service Date: | 09.06.1993 |
| US Service Mileage: | 1700217 KM | A Service Date: | 24.03.1995 |

**27.04.1993** Repair 'VEHICLE RECLASSIFY'.
**27.04.1993** Issued at location 'Australian National' with a previous code of locomotive 'T 404 P'
**16.08.1993** Service defect: 'UN - TRACTION MOTOR BURNTOUT - NO.2 T/M REPLACED A/C BURNT OUT.'.
**23.09.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED CONTROL/FUEL PUMP SWITCH, A/C LOCO WOULD NOT START.'.
**20.10.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 4 WHEEL SET REPLACED, EX CK4, A/C DAMAGED AXLE.'.
**20.10.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - RVR4 CONTACTOR CHANGED, A/C MELTED CONTACTS.'.

**20.10.1993** Service defect: ‘UN - TRACTION MOTOR - NO 1 T/MOTOR REPLACED, A/C CABLES U/S, NO 6 T/M BRUSH HOLDERPOSITION. T/M IN - 1268. T/M OUT - 872.’.
**14.01.1994** Service defect: ‘UN - BOGIE - NEW THRUST RUBBERS FITTED. CLEARANCES ADJUSTED.’.
**18.01.1994** Service defect: ‘TW - MECHANICAL MAINTENANCE - AIR BRAKE - 55PSI SAFETY VALVE CHANGED, A/C REPORTED NO INDEPENDENT BRAKE AND SAFETY VALVE BLOWING.’.
**10.02.1994** Service defect: ‘SW - BOGIE - LATERALS CHECKED AND ADJUSTED, SEVERAL RUBBERS REPLACED, A/CEXCESSIVE RUBBER WEAR ON AXLES. LOCO TRIAL RUN OK.’.
**24.02.1994** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - ‘B‘END PACKAGE REPLACED.’.
**09.04.1994** Service defect: ‘TS - BOGIE - THRUST PAD RUBBERS REPLACED. AXLE ENDS CLEANED UP.’.
**09.04.1994** Service defect: ‘TS - MECHANICAL MAINTENANCE - AIR BRAKE - 2 MAIN RESERVOIR HOSES REPLACED.’.
**14.04.1994** Service defect: ‘A - MAIN GENERATOR - 16 MAIN GEN BRUSHES CHANGED, A/C SHORT.’.
**14.04.1994** Service defect: ‘A - LATERALS TO CHECK NEXT SERVICE.14/4.’.
**25.05.1994** Service defect: ‘UN - BOGIE - ALL AXLE ENDS FACED AND LATERALS REDONE.’.
**31.05.1994** Service defect: ‘UN - BOGIE - RESILIENT THRUST RUBBERS INSPECTED. R3 AND R4 RUBBER REPLACED, A/C WORN. R3 BRASS THRUST PAD REPLACED, A/C WORN.’.
**31.05.1994** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - ‘B’ END COUPLER CHANGED, A/C CRACKED.’.
**29.06.1994** Service defect: ‘B - BOGIE - L1 THRUST PAD RUBBERS AND THRUST PAD INSPECTED FOR WEAR, CHECKED OUT OK.’.
**29.06.1994** Service defect: ‘B - VIGILANCE - VIG WARNING LIGHTS AND ALARM REPAIRED.’.
**99.99.9999** Service defect: ‘UN - ENG REPAIRS’.

**CK 3**

Details: locomotive ‘CK 3 G’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**Remarks:** EX V/LINE T 405
**BSG Code:** LBAI

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 12.02.1997 | | |
| SW Service Mileage: | 16 KM | SW Service Date: | 27.11.1996 |
| A Service Mileage: | 9624 KM | A Service Date: | 12.02.1997 |
| B Service Mileage: | 315508 KM | B Service Date: | 03.04.1995 |
| C Service Mileage: | 287298 KM | C Service Date: | 12.07.1994 |
| D Service Mileage: | 244282 KM | D Service Date: | 02.06.1993 |
| US Service Mileage: | 6720 KM | A Service Date: | 14.01.1997 |

**27.04.1993** Repair ‘VEHICLE RECLASSIFY’.
**27.04.1993** Issued at location ‘Australian National’ with a previous code of locomotive ‘T 405 B‘
**24.06.1993** Service defect: ‘UN - BOGIE - RESILIENT RUBBERS REPLACED ON LONG NOSE END.’.
**07.07.1993** Service defect: ‘UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY OPERATED 400AMPS FROM NOTCH 8 TO NOTCH 6 WITH 1035 TONNE.2 ‘C’ CLASS IN FRONT. T/M’S CHECKED OK.’.
**07.07.1993** Service defect: ‘UN - MAIN GENERATOR - MAIN GEN. CHECKED OK. - LOCO MEGGERED P=50M OHMS.’.
**31.07.1993** Service defect: ‘UN - TRACTION MOTOR - NO 3 T/MOTOR INTERNAL CABLES RESECURED, A/C GR’S. MEGGERED 10KOHMS. LOCO TESTED OK IN YARD.’.
**13.08.1993** Service defect: ‘TS - BATTERY MAINTENANCE - TWO BATTERIES REPLACED A/C LOCO SHUT DOWN AND WOULD NOT RE-START.’.
**19.08.1993** Service defect: ‘A - ENGINE - NEW SEALS FITTED TO NO.4 AND NO.7 CRANKCASE DOORS.’.
**19.08.1993** Service defect: ‘A - LUBRICATING SYSTEM - COPPER PIPE FROMOIL PUMP TO STRAINER BOX REPAIRED A/C FOUND LEAKING.’.
**19.08.1993** Service defect: ‘A - MECHANICAL EQUIPMENT SANDING GEAR - L2 AND R2 SAND BOX’S REPAIRED. - FOUND PIECE OF METAL IN BOTTOM OF BOX BLOCKING OUTLET. WET SAND REPLACED WITH DRY.’.
**19.08.1993** Service defect: ‘A - TRACTION MOTOR BRUSHES - 6 O’CLOCK BRUSH HOLDER CHANGED ON NO.3 T/M. 3 BRUSHES CHANGED A/C CONDEMNING LIMIT.’.
**20.08.1993** Service defect: ‘SW - ELECTRICAL MISCELLANEOUS - DIRECTIONAL CONTROL ALTERATION COMPLETED. CHECKED OK.’.
**26.08.1993** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - REPORTED FOR EARTH ON CONTROL. NO EARTH FAULT FOUND.’.
**26.08.1993** Service defect: ‘UN - GENERAL SHUTDOWN - CK3 REPORTED AS SHUTTING DOWN ON LOW OIL. LOCO CHECKED OK IN DEPOT.’.
**30.09.1993** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - JUMP START MOD COMPLETED.’.
**30.09.1993** Service defect: ‘UN - TRACTION MOTOR - GR’S - NO 4 INTERPOLES LOOSE. T/M’S 1 & 2 REPLACED.’.
**07.10.1993** Service defect: ‘TW - NO FAULT FOUND - CK3 G/RELAY OPERATED. T/M’S CHECKED OK. M/GEN CHECKED OK. NO.2 T/M CLEAT REPLACED A/C WORN.’.
**20.10.1993** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED.’.
**27.10.1993** Service defect: ‘TS - ELECTRICAL MISC. GROUND RELAY - LOCO MEGGERED AT 5000V- LOAD METER BREAKING DOWN - LOADMETERCHANGED.’.
**27.10.1993** Service defect: ‘TS - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE VALVE EXHAUST PORT HOSE CHANGED, A/C TOOSMALL & RESTRICTIVE, LOCO CHECKED OK.’.

**16.12.1993** Service defect: 'TS - NO FAULT FOUND - LOCAL CONTROL BREAKER TRIPPING CONTINUOUSLY. TAILEM BEND CHECKED AND FOUND NO PROBLEM.'.
**23.02.1994** Service defect: 'UN - RESILIENT RUBBERS AND THRUST PADS TO REPLACE.23/2.'.
**21.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - 2 M.R. SAFETY VALVES REFITTED.'.
**21.04.1994** Service defect: 'A - TRACTION MOTOR - NO 1 CONCERTINA REPAIRED, A/C HANGING DOWN.'.

**CK 4**

Details: locomotive 'CK 4 P' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**Remarks:** EX V/LINE T 406
**BSG Code:** LBAI

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 29.01.1997 | | |
| SW Service Mileage: | 223128 KM | SW Service Date: | 18.10.1995 |
| A Service Mileage: | 246861 KM | A Service Date: | 03.10.1996 |
| B Service Mileage: | 246861 KM | B Service Date: | 03.10.1996 |
| C Service Mileage: | 268873 KM | C Service Date: | 29.01.1997 |
| D Service Mileage: | 151311 KM | D Service Date: | 08.07.1993 |
| WT Service Mileage: | 170265 KM | WT Service Date: | 24.11.1993 |
| US Service Mileage: | 262727 KM | A Service Date: | 06.01.1997 |

**27.04.1993** Repair 'VEHICLE RECLASSIFY'.
**27.04.1993** Issued at location 'Australian National' with a previous code of locomotive 'T 406 K'
**08.07.1993** Service defect: 'D - BOGIE - R1,R2,R4,L1,L3 & L4 RESILIENT RUBBERS CHANGED.'.
**08.07.1993** Service defect: 'D - BOGIE MAINTENANCE - WICKS - BOTH WICKS ON NO 4 W/SET REPLACED.'.
**09.09.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WERE DRY - TOPPED UP WITH WATER, PLACED ON CHARGE.CHARGED OK.'.
**09.09.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - AUX GENERATOR FUSE REPLACED, A/C BLOWN.'.
**20.09.1993** Service defect: 'A - EXHAUST - REPLACED 4 EXHAUST MANIFOLD BOLTS.'.
**20.09.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - REPLACED 26 T/M BRUSHES A/C CONDEMNING LIMIT.'.
**19.11.1993** Service defect: 'B - BOGIE - BOGIE CHANGE COMPLETED.'.
**19.11.1993** Service defect: 'B - MECHANICAL EQUIPMENT BRAKE VALVE - DISTRIBUTING VALVE CHANGED - AIR BRAKE MOVEMENT TEST OK. LOCO OK ON TRIAL RUN.'.
**03.12.1993** Service defect: 'A - BOGIE - L1 SLACK ADJUSTER REPLACED.'.
**03.12.1993** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR REPAIRS COMPLETED.'.
**17.12.1993** Service defect: 'UN - BATTERY MAINTENANCE - D/SIDE THIRD FROM LEFT BATTERY CHANGED, A/C DEAD CELL.'.
**07.04.1994** Service defect: 'UN - BOGIE - LATERAL CLEARENCES - COMPLETED. BOGIE LUBE - COMPLETED.'.
**07.04.1994** Service defect: 'UN - ENGINE - ENGINE RUN UP AND CHECKED OK.'.
**15.04.1994** Service defect: 'C - BATTERY MAINTENANCE - 1 BATTERY CHANGED + BATTERIES CHARGED.'.
**15.04.1994** Service defect: 'C - BOGIE - LATERALS CHECKED OK. R4 RESILIENT RUBBER CHANGED.'.
**15.04.1994** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - LINK REPLACED ON ENGINE RUN SWITCH, A/C HOT LUGS.'.
**15.04.1994** Service defect: 'C - FUEL SIGHT GLASS TO CLEAN.15/4.'.
**28.04.1994** Service defect: 'UN - BATTERY MAINTENANCE - 1 BATTERY REPLACED,'.
**28.04.1994** Service defect: 'UN - BOGIE - 6 THRUST RUBBERS REPLACED.'.
**28.04.1994** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP REPLACED, A/C TO GROUND.'.
**14.06.1994** Service defect: 'SW - BATTERY MAINTENANCE - BATTERIES CHARGED, LOCO STARTED OK.'.
**14.06.1994** Service defect: 'SW - BOGIE - AXLE ENDS MACHINED EXCEPT R1, L1 A/C SUSPECT AXLE. LATERALS RE-DONE, AXLE BOXES CLEANED OUT, NEW OIL. NEW RESILIENT'.
**01.07.1994** Service defect: 'SW - BOGIE - ALL AXLE ENDS MACHINED.'.
**01.07.1994** Service defect: 'SW - GENERAL - DOOR HANDLE SPRING REPLACED.'.

**CK 5**

Details: locomotive 'CK 5 B' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1968
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**Remarks:** EX V/LINE T 407
**BSG Code:** LBAI

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 24.04.1997 | | |
| SW Service Mileage: | 28171 KM | SW Service Date: | 14.01.1997 |
| A Service Mileage: | 33032 KM | A Service Date: | 27.02.1997 |
| B Service Mileage: | 22047 KM | B Service Date: | 08.11.1996 |
| D Service Mileage: | 183879 KM | D Service Date: | 14.05.1993 |
| WT Service Mileage: | 232917 KM | WT Service Date: | 13.01.1994 |
| US Service Mileage: | 37674 KM | A Service Date: | 24.04.1997 |

**27.04.1993** Repair 'VEHICLE RECLASSIFY'.
**27.04.1993** Issued at location 'Australian National' with a previous code of locomotive 'T 407 T'
**25.06.1993** Service defect: 'SW - BOGIE - NEW RESILIENT RUBBERS FITTED TO ALL FOUR AXLES. LATERALS ADJUSTED.'.
**04.08.1993** Service defect: 'A - ENGINE - ENGINE HATCH (RIGHT SIDE) REPAIRED.'.
**04.08.1993** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS REPAIRED.'.
**24.08.1993** Service defect: 'SW - REVERSER - REVERSER MODS. COMPLETED AT Q/FIX BY I. KENT.'.
**03.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLER REPLACED & LUBRICATED, LOCO SENT INTO TRAFFIC.'.
**22.09.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHARGED, CHARGE RATE OK.'.
**22.09.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - AFP71 WIRE REPLACED ON VOLTAGE REGULATOR, A/C BROKEN LUG.'.
**04.11.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - RUBBER SEALS ON ELECT CABINET DOORS REPLACED.'.
**04.11.1993** Service defect: 'B - LUBRICATING SYSTEM - OIL PUMP MANIFOLD PLUG REPAIRED, A/C LEAKING.'.
**04.11.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND HOSE D/SIDE REPLACED. SAND HOSE MOUNTING ASSEMBLY REPLACED.'.
**04.11.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE REPAIRED.'.
**04.11.1993** Service defect: 'B - TRACTION MOTOR - NO 4 T/M BELLOWS RETAINING SPRING REPLACED, A/C BROKEN.'.
**04.11.1993** Service defect: 'TS - CONTACTOR MISCELLANEOUS - ALL FOUR REVERSER CONTACTORS CHANGED, A/C BURNT TIPS, POSSIBLE W/SLIP PROBLEM.'.
**04.11.1993** Service defect: 'B - NO'S 2,7 & 8 INJECTORS TO CHANGE, A/C WET PISTON.'.
**04.11.1993** Service defect: 'B - NIL STOCK.4/11.'.
**19.12.1993** Service defect: 'TS - BATTERY MAINTENANCE - ONE BATTERY CHANGED, A/C BLOWN.'.
**13.10.1994** Service defect: 'TS - BOGIE - SENT TO ISLINGTON TO SWAP BOGIES WITH CK1, A/C TWO T/M'S BLOWN UP.'.

## 2.13 Locomotive classification starting with 'CL'

### CL 1

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**06.07.1989** Service defect: 'SW - OTHER BODY REPAIRS - SPLIT TANK - FUEL TANK DRAINED/DEGASSED/RE-WELDED/RE-FILLED. - TANK TESTED OK AFTER RE-FILL.'.
**09.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**27.07.1989** Service defect: 'A - BATTERY MAINTENANCE - DEAD CELLS - 4 NO.NEW STARTING BATTERIES INSTALLED.'.
**27.07.1989** Service defect: 'A - STARTER MOTOR - STARTER/MOTOR FAULT - BOTH STARTER/MOTORS REPLACED.'.
**31.07.1989** Service defect: 'UN - NO FAULT FOUND - VIGILANCE CUT/OUT - CUT BACK IN,OPERATION CHECKED OK.'.
**10.08.1989** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE SELECTOR REPLACED A/C ORIGINAL BROKEN SPRING IN DYNAMIC BRAKE SELECTOR MECHANISM.'.
**14.08.1989** Service defect: 'WT - TURNED NO. 1 WHEEL A/C SHARP FLANGE.'.
**05.09.1989** Service defect: 'UN - VIGILANCE CUT OUT A/C NO RESPONCE FROM CANCELLING'.
**05.09.1989** Service defect: 'UN - BUTTONS'.
**06.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR GAP ON STICK IN RELAY ADJUSTED & VIGILANCE TESTED TO BE OPERATING OK.'.
**13.09.1989** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - AGED WIRING - WIRING IN CONDUIT TO TURBO LIGHTS REPAIRED.'.
**13.09.1989** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - CLOGGED AFT/COOLERS - BOTH AFT/COOLERS REPLACED.'.
**17.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.
**04.10.1989** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS(4,5&6),5 BAGS(1,2&3).'.
**04.10.1989** Service defect: 'UN - ENGINE - BLOWN TEST/COCK - NO.13 TEST/COCK REPAIRED.(LEAKING)'.
**04.10.1989** Service defect: 'UN - NO FAULT FOUND - DYNAMIC - DYNAMIC OPERATION CHECKED,NOT FAULTED. - (NOT RESPONDING THEN INITIATING 1,000 AMPS.)'.
**22.10.1989** Service defect: 'TW - ENGINE - NO.16 TEST COCK REPAIRED A/C LEAKING.'.
**22.10.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 1,2,3.(4 BAGS),4,5,6.(3 BAGS) CRATER ADDED TO GEAR CASES.'.
**27.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - R1 WHEEL CHANGED A/C FLANGE CUT INCORRECT AT WHEEL TRUER.'.
**30.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - LOAD REGULATOR REPLACED A/C OIL SEAL PUSHED OUT.'.
**10.11.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 3 BAGS OF CRATER ADDED TO ALL GEAR CASES.'.
**18.01.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - ALL WHEELS SKIDDED - BOGIES EX.AL19 INSTALLED. - NO.3 WHEEL CHANGED OUT.(ON CONDEMN LIMIT)'.

**19.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - - BRK/PIPE LEAKAGE IN 1 MINUTE (NIL) - FLOW METER GAUGE CHECK OK.'.
**19.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - - FEED VALVE CHECK OK. - RISE IN BRK/PIPE PRESSURE IN 1 MINUTE.(NIL)'.
**19.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - - FEED VALVE SENSITIVITY TEST OK. - SINGLE/MULTIPLE UNIT TEST COMPLETED.(NO FAULT)'.
**19.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST - B.P.PRESSURE(500 KPA),M.R.PRESSURE(810-875 KPA) - B.C.PRESSURE(310 KPA).'.
**24.01.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(3&4),5 BAGS(2,5&6),6 BAGS(1).'.
**24.01.1990** Service defect: 'TS - WHEELSLIP - WHEEL/SLIP OPERATION - P2-5 A/B INT/LOCKS CLEANED/UP.'.
**31.01.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP - LOCO ON TEST RUN TO WHYALLA & RETURN.'.
**02.02.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP OPERATION - NO.4 T/MOTOR CHANGED/OUT. (STUD RUBBED THRU INSULATION ON CABLE)'.
**14.02.1990** Service defect: 'UN - WHEELSLIP - WHEELSLIP - REAR BOGIE CHANGED OUT A/C SUSPECT NO5 T/MOTOR. EX CL5 BOGIE INSTALLED UNDER CL1.'.
**15.02.1990** Service defect: 'UN - TEST RUN TO WHYALLA 16/2 FOR L.T.EARTH FAULT.'.
**19.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(1,3&6),4 BAGS(2,4&5).'.
**19.02.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - M/RES.LEAK - REPAIRED.'.
**26.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**29.03.1990** Service defect: 'B - BLOCKED FILTERS - HIGH READING - AIR/INTAKE FILTERS REPLACED.'.
**29.03.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**12.04.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - THIN WHEELS - O/HAULED BOGIES INSTALLED.('A'BOGIE CL135) ('B'BOGIE AL115)'.
**12.04.1990** Service defect: 'UN - DYNAMIC BRAKE - BRAKE WARNING LIGHT - BWA RELAY CLEANED/UP & TESTED OK. ILLUMINATED. - DYNAMIC OPERATION CHECKED OK.'.
**29.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. BOGIE NOISE - NO FAULT DETECTED.'.
**09.05.1990** Service defect: 'D - BOGIE - LUBRICANT CHECK - 4 BAGS(1&5),5 BAGS(2,3,4&6).'.
**09.05.1990** Service defect: 'D - NO.2 T/MOTOR DUCTING TO BE REPAIRED. (8/5)'.
**14.05.1990** Service defect: 'SW - TO PETER'.
**16.05.1990** Service defect: 'SW - BOGIE - DUCTING - NO.2 T/MOTOR DUCTING REPAIRS COMPLETED.'.
**04.06.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN.TEST - BRAKE PROGRAM SWITCH & EXTENDED RANGE CONTACTOR - SEQUENCE TESTED OK. POWER & DYNAMIC TESTED OK.'.
**04.06.1990** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - BURNT GRID - D/SIDE MIDDLE GRID REPLACED,H.T.MEGGERED OK.'.
**04.06.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - - COMPLETED.'.
**04.06.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BURNT WIRING - ENG/ROOM LIGHT WIRING,EXTENDED RANGE CIRCUIT IN CONDUIT. - REWIRE BETWEEN EXTENDED RANGE CONTACTOR BOXES'.
**10.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**19.06.1990** Service defect: 'UN - DYNAMIC BRAKE - GRID FAULTY - D/SIDE NO.2 GRID REPLACED.'.
**20.07.1990** Service defect: 'TS - ENGINE LINER - BROKEN STUDS - NO.9 LINER CHANGED.'.
**20.07.1990** Service defect: 'TS - ENGINE WATER LEAK - SHUT/DOWN ON LOW WATER - NO.9 HEAD CHANGED.'.
**20.07.1990** Service defect: 'TS - FUEL SYSTEM INJECTORS - SEIZED INJECTOR - FULL SET CHANGED OUT. - ALL FUEL FILTERS CHANGED.'.
**25.07.1990** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - PRESSURE SWITCH REPLACED.'.
**04.08.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS(2-6),4BAGS(1).'.
**04.08.1990** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - PIPE FROM STRAINER BOX TO MAIN BEARING ELBOW (OIL LEAK) - REPLACED.'.
**04.08.1990** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - WATER LEAK - PROTECTION UNIT REPLACED.'.
**10.08.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS(1,3,4&6),6 BAGS(2&5).'.
**29.08.1990** Service defect: 'UN - AUXILLARY MACHINES - AUX/GEN.FAILURE - UNIT REPLACED.'.
**29.08.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS(1,4&6),5 BAGS(2,3&5).'.
**11.09.1990** Service defect: 'UN - ALTERNATOR - CRACKED FLEXI-PLATE - PLATE REPLACED & ALTN INSTALLED.'.
**11.09.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - NO POWER - ALTN CABLES RE-LOCATED.(INCORRECT HOOK/UP)'.
**27.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**23.10.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**23.10.1990** Service defect: 'A - TO BE PROFILED A/C L.1 FLANGE 8+. (23/10)'.
**22.11.1990** Service defect: 'UN - VIGILANCE - VIGILANCE CUT/OUT - CUT/IN & CHECKED OK.'.
**25.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**14.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**14.12.1990** Service defect: 'TW - TRACTION MOTOR BRUSHES - BRUSH CHECK - T/MOTOR BRUSH CHECK COMPLETED. - (OVER DUE FOR SERVICE)'.
**14.12.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - TRAIN/LINE FAULT - NEG/WIRE ON REAR MU BOARD REPAIRED.'.
**18.12.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 5 BAGS(1),4 BAGS(2-6).'.
**18.12.1990** Service defect: 'C - RADIATOR/PRESSURISING FAN - BURNT PIN - NO.3 RADIATOR FAN REPLACED.'.
**21.12.1990** Service defect: 'UN - DYNAMIC BRAKE - H.R.JOINT - DYNAMIC BRAKE CABLE CONNECTION RE-SOLDERED.'.

**27.01.1991** Service defect: 'UN - REGULATOR U/S TO REPAIR ON RETURN.'.
**01.02.1991** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - DYNAMIC BRAKE REGULATOR - TEST RUN.'.
**21.05.1991** Service defect: 'F - BOGIE - WICK CHECK COMPLETED A/C O/HAULED BOGIES'.
**21.05.1991** Service defect: 'F - ELECTRICAL MISCELLANEOUS - CLIPBOARD,COUPLING LIGHTS FITTED.AUXILIARY GENERATOR AND MAIN ALTERNATOR O/HAULED.'.
**21.05.1991** Service defect: 'F - ENGINE - 'F'SERVICE COMPLETED:ENGINE EX CL3 SERIAL NUMBER 70-D1-1025 MODEL 645E3.'.
**21.05.1991** Service defect: 'F - ENGINE - ALL HEAD SEATS NOT MACHINED.MAIN BEARINGS AND CONROD BEARINGS RENEWED.CAMSHAFT BEARINGS RENEWED.'.
**21.05.1991** Service defect: 'F - ENGINE - CARRIER BEARING INSERTS.RECONDITIONED CHROME LINERS FITTED. CRANKCASE ON 4TH O/HAUL-READINGS VERY CLOSE TO THE'.
**21.05.1991** Service defect: 'F - ENGINE - LIMITS ALLOWABLE BEFORE LINE BORING IS NECESSARY. CAPS MACHINED.'.
**21.05.1991** Service defect: 'F - ENGINE - ORIGINAL CRANKSHAFT,CAMSHAFT AND CONROD FORKS (EXCEPT FOR NO'S 9 & 12 WHERE NEW ONES USED).'.
**21.05.1991** Service defect: 'F - ENGINE - ORIGINAL PARTS REPLACED - CONROD BLADES,PISTON PINS AND CARRIERS,CAMSHAFT GEARS,IDLER AND STUBSHAFT GEARS,'.
**21.05.1991** Service defect: 'F - ENGINE - RECONDITIONED CYLINDER HEADS,PISTONS,VALVE BRIDGES AND SCAVENGING OIL PUMP.MAIN LUBE OIL PUMP MODIFIED.'.
**21.05.1991** Service defect: 'F - ENGINE - SAME GEAR TYPE USED ON HARMONIC BALANCER.RENEWED MAIN BEARING CAPS,LOWER LINER INSERTS,ROCKER ROLLER BUSHES AND'.
**21.05.1991** Service defect: 'F - ENGINE - WATER PUMPS O/HAULED,NEW HEAVY DUTY TYPE TURBO DRIVE GEAR INSTALLLED.'.
**05.06.1991** Service defect: 'TS - ALTERNATOR - H.R.TERMINAL BLOCK - TERMINAL BLOCK ON D14 REPLACED. - (CABLES RE-CONNECTED,D14 CHECKED OK)'.
**05.06.1991** Service defect: 'TS - BOGIE - LUBE CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**05.06.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - BLOWN FUSES - REPLACED ON RADIATOR FAN CIRCUIT.'.
**05.06.1991** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORTED - ALL RADIATOR FANS REPLACED. - FRONT PRESSURISING FAN REPLACED.'.
**28.06.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - LEAKING RADIATOR - O/SIDE NO.2 RADIATOR REPLACED.'.
**15.07.1991** Service defect: 'A - COOLING SYSTEM - ENG COOLING WATER CHANGED,A/C LAB REPORT.'.
**15.07.1991** Service defect: 'A - LUBRICATING SYSTEM - O/SPEED STRAINER SEALS REPLACED,A/C OIL LEAK.'.
**15.07.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDERS CLEARED.'.
**22.08.1991** Service defect: 'TS - ENGINE WATER LEAK - NEW ELBOW/INLET TUBE TO LINER 15 REPLACED, A/C WATER LEAK.'.
**03.09.1991** Service defect: 'UN - AUXILLARY MACHINES - VIBRATIONS IN CAB - AUX/GENERATOR REPLACED.(BEARING FAILURE)'.
**03.09.1991** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS (1-5),10 BAGS (6).'.
**05.09.1991** Service defect: 'B - NO FAULT FOUND - LOW OIL LIGHT CHECKED OK,NO FAULT FOUND.'.
**05.11.1991** Service defect: 'A - AUXILLARY MACHINES - AUX. GEN.HOLD DOWN BOLT TIGHTENED.'.
**05.11.1991** Service defect: 'A - COOLING SYSTEM RADIATOR - 25 LITRES OF COOLING CONCENTRATE ADDED.'.
**05.11.1991** Service defect: 'A - ENGINE GOVERNOR MECHANICAL - GOV. OIL LINE REPAIED.'.
**05.11.1991** Service defect: 'A - ENGINE LINER - NO 13 &16 LINERS SCUFFED.'.
**05.11.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - ONE BRUSH HOLDER WAS CHANGED ON NOS.2 T/M &TWO ON NO.5.'.
**06.11.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSH REMOVED FROM NO.6 T/MOTOR. (FAILED 3347) - (EXTRA BRUSH IN T/MOTOR)'.
**21.11.1991** Service defect: 'UN - NO FAULT FOUND - HOT ENGINE CHECKED,NOTCH 8 + OVERSPEED,REVS CHECKED OK,NO FAULTS FOUND.'.
**30.12.1991** Service defect: 'TS - DYNAMIC BRAKE - MOTOR BRAKE SWITCH CHECKED OK.'.
**30.12.1991** Service defect: 'TS - WHEELSLIP - CHECKED CONTACTORS OK.'.
**03.01.1992** Service defect: 'UN - OTHER BODY REPAIRS - OBS. SIDE FOOT STEP REPLACED. A/C SNAPPED OFF.'.
**03.01.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.1 AND NO.3 T/M FLASHED.A/C PIG TAILS HANGING OFF. T/MS CLEANED AND NEW BRUSHES FITTED.'.
**14.01.1992** Service defect: 'TS - NO FAULT FOUND - G/RELAYS - T/MOTORS & ALTN.CHECKED OK. - TESTED IN POWER & DYNAMIC NOT FAULTED.'.
**23.01.1992** Service defect: 'C - ELECTRICAL MISCELLANEOUS - SHUNT RESOLDERED,A/C CRACKED.'.
**23.01.1992** Service defect: 'C - LUBRICATING SYSTEM - OIL PIPE FROM SCAVENGING PUMP REWELDED & MARMON COUPLINGS TIGHTENED.'.
**03.02.1992** Service defect: 'TS - ENGINE - NO 8 AIR BOX COVER SEAL REPLACED,A/C BLOWN.'.
**03.02.1992** Service defect: 'TS - TRACTION MOTOR ARMATURE BEARING - NO 4 T/MOTOR REPLACED,A/C ARMATURE.IN-75H1-1271. OUT-75J1- 1392.'.
**13.03.1992** Service defect: 'UN - BLOCKED FILTERS - TURBO FILTERS CHANGED.-MICHIANA FILTERS CHANGED.'.
**13.03.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CR38A-39B REPLACED.ALLOWING 3 VOLTS ONTO 'O' VALVE IN THROTTLES 1-4.'.
**13.03.1992** Service defect: 'UN - ENGINE GOVERNOR - GOV.CHANGED.A/C ENG. SLUGGISH.'.
**20.03.1992** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - TO BE SENT TO WTM. AS INDICATED ON WHEEL GAUGE SHEET.'.
**20.03.1992** Service defect: 'A - COOLING SYSTEM - COOLANT CHANGED.'.

**20.03.1992** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - BROKEN WIRE IN LIGHT FITTING REPAIRED.ENG. ROOM'.
**20.03.1992** Service defect: 'A - OTHER BODY REPAIRS - DRIVERS SIDE ENGINE ROOM DOOR HINGES REPAIRED.'.
**18.06.1992** Service defect: 'B - GENERAL - OBS SIDE MIRROR REPLACED.'.
**18.06.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - L1,L3 & L6.R1,R3,R4 & R6 SANDERS CLEARED.'.
**17.08.1992** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - LOCO NOT SHUTTING DOWN A/C LOOSE CONNECTION TO 'D' VALVE ON GOVERNOR PLUG. - GOVERNOR PLUG AND WIRING REPAIRED A/C'.
**18.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 'DV' CIRCUIT INSPECTED A/C LOCO SHUTTING DOWN INTERMITTENTLY- 26 VOLTS 'FLOATING' ON 'DV' CIRCUIT. FRONT MU TERMINAL'.
**23.08.1992** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - JUMP START PLUG CHANGED A/C DAMAGED.'.
**23.08.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - STARTER MOTOR WIRING REPAIRED A/C DAMAGED.'.
**23.08.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - 18 T/M BRUSHES CHANGED A/C TOO SHORT.'.
**07.09.1992** Service defect: 'A - BOGIE - NO.6 AND NO.3 GEARCASES TIGHTENED.'.
**07.09.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R6 AND L3 WICKS CHANGED A/C DIRTY. ALSO OILS CHANGED.'.
**07.09.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 27 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.
**07.09.1992** Service defect: 'A - IN-LINE STRAINER FOR REAR SANDERS REQUIRES NEW'.
**07.09.1992** Service defect: 'A - ELEMENT A/C NIL IN STOCK.7/9/92.'.
**21.10.1992** Service defect: 'UN - ENGINE - ENGINE MOUNT BOLTS TIGHTENED.'.
**21.10.1992** Service defect: 'UN - GENERAL - W/WASHERS REPAIRED.'.
**21.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - T/PIPE LEAK REPAIRED.'.
**21.10.1992** Service defect: 'UN - VIGILANCE - VIG CONTROL CHECKED OK.'.
**09.12.1992** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L1 & L2 WICKS CHANGED, A/C DIRTY.'.
**09.12.1992** Service defect: 'D - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO FILTERS REPLACED.'.
**09.12.1992** Service defect: 'D - TRACTION MOTOR BRUSHES - NO3 T/MOTOR BOTTOM BRUSH HOLDER REPLACED, A/C BROKEN SPRING FINGER.'.
**05.01.1993** Service defect: 'UN - BOGIE - NO 2 NOSE SUSPENSION D/S TOP BEARING CAP BOLT TIGHTENED A/C LOOSE.'.
**05.01.1993** Service defect: 'UN - EXHAUST - NO 1 EXHAUST JOINT REPLACED,A/C U/S.'.
**02.03.1993** Service defect: 'A - FUEL SIGHT GLASS - FUEL SIGHT GLASS GASKET REPLACED.'.
**02.03.1993** Service defect: 'A - GENERAL - W/WASHER REPAIRED, W/WIPER MOTOR CHECKED OK.'.
**02.03.1993** Service defect: 'A - LUBRICATING SYSTEM - OIL LINE TO GOVERNOR REPAIRED.'.
**02.03.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - REAR SANDING VALVE & FILTER ASSEMBLY REPLACED.'.
**02.03.1993** Service defect: 'A - TRACTION MOTOR - BRUSH HOLDER REPLACED IN NO 1 T/MOTOR.'.
**02.03.1993** Service defect: 'A - VIGILANCE - VIG/CONTROL REPAIRED.'.
**06.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REAR OBS/SIDE RECEPTICLE REPAIRED,A/C BROKEN INSULATOR.'.
**06.04.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO 1 T/M 3 O'CLOCK BRUSH HOLDER REPLACED,A/C FAILED SPRING. MOST BRUSHES REPLACED IN NO 1 T/M,A/C FRAYED PIGTAILS.'.
**19.05.1993** Service defect: 'A - ENGINE LINER - NO 14 LINER CHANGED,A/C SCORED.'.
**19.05.1993** Service defect: 'A - ENGINE PISTON - NO 14 PISTON CHANGED,A/C SCORED.'.
**19.05.1993** Service defect: 'A - LUBRICATING SYSTEM - TWO MARMON COUPLINGS REPLACED,A/C U/S.'.
**19.05.1993** Service defect: 'A - PRESSURISING FAN REMOVED BUT NOT REPLACED,A/C NIL'.
**19.05.1993** Service defect: 'A - STOCK MPC.19/5.'.
**26.07.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - BR RELAY REPLACED.'.
**26.07.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - 52 T/M BRUSHES REPLACED, A/C TOO SHORT.'.

**CL 2**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**11.07.1989** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 2 BAGS(1-5 TMGL),12 BAGS(6 CRATER)'.
**11.07.1989** Service defect: 'TS - TRACTION MOTOR SUSPENSION BEARING - SUPPORT FAILURE - NO.6 T/MOTOR REPLACED. - SUPPORT CAPS PAINTED RED A/C 1/16'U/SIZE.'.
**14.07.1989** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - N06 TRACTION MOTOR SUPPORT BEARING AND WICK CHECKED OK.'.
**24.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**19.08.1989** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - NO 1 SLACK ADJUSTER REPLACED'.
**19.08.1989** Service defect: 'TW - LUBRICATING SYSTEM - BOGIE LUBE- 3 PER GEAR CASE OF TMGL'.
**25.08.1989** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVE REPLACED A/C BROKEN OFF.'.
**26.08.1989** Service defect: 'UN - STARTER MOTOR - GSA CONTACTOR REPLACED & CHECKED OK.BOTH STARTER MOTORS REPLACED.'.
**05.09.1989** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - N012 POWER ASSY REPLACED A/C SPLIT LINER.'.
**09.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK

- 4 BAGS ADDED TO EACH G/CASE.'.

**16.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.

**27.09.1989** Service defect: 'UN - ENGINE WATER LEAK - THERMOSTATE MANIFOLD WELDED A/C CRACKED.27/9.'.

**26.10.1989** Service defect: 'UN - ENGINE WATER LEAK - PRESSURE TESTED & NO FAULT A/C SUSPECT WATER LEAK. WATER FLUSHED OUT & REFILLED.'.

**09.11.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 3 BAGS CRATER ADDED TO NO.6.GEAR CASE,NO'S 1,2,3,4,5. 8 BAGS .'.

**25.11.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**29.11.1989** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - ODDOMETER FAILURE - SPEEDO UNIT REPLACED. - (READING INCORRECT WITH AMOUNT OF TRIPS)'.

**10.12.1989** Service defect: 'UN - NO FAULT FOUND - NO POWER IN FORWARD - LOCO CHECKED IN BOTH DIRECTIONS. - LOCO COULD NOT BE FAULTED.'.

**10.12.1989** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - NO.3 THERMOSTAT PLUG REPOSITIONED. - (PLUG FALLEN OUT)'.

**03.01.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - PROFILE - COMPLETED A/C SHARP FLANGES L.1(9),L.2(8),L.3(9) & L.4(10).'.

**03.01.1990** Service defect: 'WT - 30MM REMOVED FROM NO.1 WHEEL 28MM FROM NO.2 WHEEL'.

**03.01.1990** Service defect: 'WT - 32MM. FROM NO.3 WHEEL 41MM. FROM NO.4,5,&6 WHEELS.'.

**08.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**04.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CLOCK FAULTY - SPEEDO MECHANISM CHANGED + ODOMETER CORRECTED'.

**09.02.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 5 BAGS(1,3,4&6),6 BAGS(2&5).'.

**13.02.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - SELECTA TEST WIRING COMPLETED.'.

**19.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**05.03.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO CHECKED & STYLUS ADJUSTED.'.

**19.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR KNOCK -'.

**20.03.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**31.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**31.03.1990** Service defect: 'TW - LUBRICATING SYSTEM - BLOWN GASKET - OIL STRAINER GASKET REPLACED.'.

**05.04.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - RECEPTACLE - FRONT RECEPTACLES RE-PINNED.'.

**05.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HARMON FUEL TESTING - COMPLETED.'.

**26.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. BRAKE STRAPS - BOTH REPLACED.(L.1)'.

**09.05.1990** Service defect: 'B - COOLING SYSTEM RADIATOR - RADIATOR LEAK - D/SIDE NO.2 RADIATOR REPLACED. - O/SIDE NO.1 ' ' .'.

**18.05.1990** Service defect: 'UN - CONTACTOR WELDED - CONTACTOR WELDED - S14 CONTACTOR REPLACED.'.

**31.05.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**31.05.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - NO.1 OBSERVER'S SIDE RADIATOR - REPLACED A/C LEAKING.'.

**31.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR - COMP/GOVN.CLEANED & ADJUSTED.'.

**09.06.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - ENG/PROTECTION UNIT REPLACED.'.

**16.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**21.06.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**10.07.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED NOT WORKING.CHECKED OK IN DEPOT.'.

**14.07.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 1,2,3,4,5 ( 5 BAGS ), 6 ( 4 BAGS ).'.

**14.07.1990** Service defect: 'UN - BROKEN PIPE - GOVERNOR LOAD REGULATOR PIPE REPAIRED A/C CRACKED.'.

**14.07.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE REGULATION CHECKED O.K.'.

**01.08.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - FOUR BRUSHES CHANGED IN NUMBER 2 TRACTION MOTOR A/C BROKEN PIG TAILS.'.

**15.08.1990** Service defect: 'D - BOGIES EX.CL3 TO INSTALL A/C THIN WHEELS. (15/8)'.

**18.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - UNABLE TO PROFILE - BOGIES EX.CL3 INSTALLED. NO.6 FLANGE (9) - 'A'BOGIE(CL103),'B'BOGIE(CL104).'.

**28.08.1990** Service defect: 'TS - CONTACTOR WELDED - NO POWER - ELD INT/LOCKS CLEANED/UP,TESTED FOR POWER OK.'.

**26.09.1990** Service defect: 'UN - BOGIE - EXCESS TRAVEL - SEVERAL BLOCKS REPLACED,BRAKES ADJUSTED.'.

**26.09.1990** Service defect: 'UN - BROKEN PIPE - BROKEN OIL PIPE - LOAD/REGULATOR PIPE RE-NEWED.'.

**26.09.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS - AIR LINE TO REAR SANDERS REPAIRED. - SANDERS CLEARED,OPERATION CHECKED OK.'.

**01.10.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.

**01.10.1990** Service defect: 'TS - NO.1 T/MOTOR CHANGE/OUT A/C G/RELAYS.'.

**03.10.1990** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1 T/MOTOR REPLACED.'.

**11.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**09.01.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY CHECK - LOCO CHECKED OK IN DEPOT. * LOCO REPAIRED WEST/KAL.(LOOSE PIG/TAILS IN T/MOTOR) *'.

**09.01.1991** Service defect: 'TS - TRACTION MOTOR BRUSHES - - BRUSHES REPLACED.'.

**10.01.1991** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS EACH GEARCASE'.
**10.01.1991** Service defect: 'A - TO BE PROFILED A/C FLANGES (L1 10, L2 7.5, L3 8.5)'.
**10.01.1991** Service defect: 'A - 10-1-1991'.
**11.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED'.
**11.02.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO1 TM FLASH OVER-3 BRUSHES CHANGED A/C PIGTAIL EARTHING.'.
**19.02.1991** Service defect: 'TS - DYNAMIC BRAKE - NO DYNAMIC - AUX/GEN FIELD FUSE REPLACED A/C BLOWN. (19/2) - DYNAMIC TESTED OK. (PG)'.
**19.02.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - - ABOVE REPAIRS DONE DUE TO TRACK STOPPAGE.'.
**19.02.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO.1 T/MOTOR CLEANED/UP A/C FLASHED. (MPR) (17/2) - SOME BRUSHES CHANGED A/C BROKEN PIG/TAILS.(MPR)'.
**14.03.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX/GEN REPLACED.'.
**14.03.1991** Service defect: 'UN - BOGIE CHANGE P.G.'.
**14.03.1991** Service defect: 'UN - ROCKER REPLACEMENT NO.10 ASSY.'.
**14.03.1991** Service defect: 'UN - AUX/GEN CHECK ETC.'.
**15.03.1991** Service defect: 'SW - AUXILLARY MACHINES - AUX/GEN - OPERATION CHECKED OK,BATTERY CHARGE RATE OK.'.
**15.03.1991** Service defect: 'SW - BOGIE - BOGIES - O/HAULED BOGIES INSTALLED.'A'BOGIE AL107. 'B'BOGIE CL126.'.
**15.03.1991** Service defect: 'SW - ENGINE CYLINDER HEADS - ROCKER GEAR - REPLACED NO.10 ASSY.A/C USED FOR AL21.'.
**15.03.1991** Service defect: 'SW - LUBRICATING SYSTEM OIL COOLER - OIL/COOLER - RE-CONNECTED & CHECKED OK - SYSTEM FILLED WITH TREATED WATER.'.
**15.03.1991** Service defect: 'SW - OTHER BODY REPAIRS - HEAD/LIGHT GLASS - RE-FITTED A/C NOT THERE. SPEEDO GLASS & RIM - RE-FITTED A/C NOT THERE.'.
**15.03.1991** Service defect: 'SW - STARTER MOTOR - STARTER/MTRS NOT - G.S.&G.S.A.CONTACTORS REPLACED. OPERATING. - G.S.FOREIGN BODIES,G.S.A.NEG.LEG BLOWN.'.
**15.03.1991** Service defect: 'SW - WICK CHECK A/C O/HAULED BOGIES INSTALLED.'.
**16.03.1991** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - ALL WICKS & GEAR/CASE LEVELS CHECKED OK.'.
**16.03.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - LOW POWER & DYNAMIC - PULL METER REPLACED. - CHECKED IN POWER & DYNAMIC OK.'.
**15.05.1991** Service defect: 'TS - AUXILLARY MACHINES - AUX/GEN.FAILURE - T/MOTOR FAN HOUSING REPAIRED. - T/MOTOR & M/GEN.BLOWER FANS REPLACED.'.
**15.05.1991** Service defect: 'TS - RADIATOR/PRESSURISING FAN - - T/MOTOR BLOWER FAN NON-EXISTANT. - AUX DRIVE SHAFT RE-NEWED A/C SHEARED.'.
**17.05.1991** Service defect: 'UN - TRACTION MOTOR - T/M COVERS REPLACED'.
**25.05.1991** Service defect: 'A - LUBRICATING SYSTEM - CONVERTER LOW ON OIL,CHECKED OK IN DEPOT.'.
**31.05.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - BLOWER FAN DUCT COVER REPAIRED.'.
**06.06.1991** Service defect: 'UN - GENERAL - TOILET WASH BASIN,TAPS & PIPES REPAIRED.'.
**06.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO'S 1,8,9,11 TEST COCKS REPAIRED,A/C LEAKING.'.
**11.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - L1 & L6 BRAKE CYLINDER GASKETS REPLACED,A/C BLOWN GASKETS.'.
**12.07.1991** Service defect: 'B - ALTERNATOR - REPLACED TOP & BOTTOM BRUSH HOLDERS ON NO 3 SLIP RING MAIN ALTERNATOR, A/C TOP BRUSH WELDED TO BRUSH HOLDER.SLIP RING'.
**12.07.1991** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - ERPAIRED BROKEN LO91 WIRE BETWEEN 90 BOARD PIN 7 OF GOV PLUG.ENG PROTECTION LIGHT NOW WORKS OK.'.
**12.07.1991** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED, A/C WOULD NOT ADJUST BELOW 74.7VRESET TO 72 VOLTS.'.
**12.07.1991** Service defect: 'TS - CONTACTOR WELDED - P2 CONTACTOR REPLACED, A/C WELDED.'.
**12.07.1991** Service defect: 'TS - ENGINE - NO 11 POWER ASSEMBLY REPLACED,A/C CRANKCASE BUTTON POPPED.'.
**12.07.1991** Service defect: 'B - NO 12 LINER SCORED (PISTON OK.).12/7.'.
**03.09.1991** Service defect: 'A - WHEELSLIP - IDAC REPLACED, A/C IDAC WHEELSLIP SYSTEM,FAULTY SELFTEST.'.
**18.09.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**15.10.1991** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - SUSPECT TURBO FAILURE - LOCO LOAD/TESTED,NO FAULT DETECTED. - 2894 H/POWER.'.
**17.10.1991** Service defect: 'UN - GENERAL - ENGINE ROOM WASHED,A/C OIL'.
**13.11.1991** Service defect: 'TS - COOLING SYSTEM - INTERCOOLERS CHANGED.'.
**13.11.1991** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED.OUT 80-H3-1131.'.
**13.11.1991** Service defect: 'TS - TRACTION MOTOR BRUSHES - BRUSH HOLDER REPLACED ON NO 5 T/M,A/C SHATTERED BRUSH.BRUSHES REPLACED ON NO 3 T/M,A/C PIGTAILS HANGING LOOSE.BRUSHES'.
**23.11.1991** Service defect: 'E - BOGIE - AXLE BOX WEAR PLATE WELDED ON.'.
**23.11.1991** Service defect: 'E - ENGINE - NO 12 & 14 POWER ASSEMBLYS INSTALLED,A/C SCORED & CHROME LIFTING.'.
**03.01.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - SHORT BRUSHES CHANGED IN NOS. 2 & 4 MOTORS.'.
**03.01.1992** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO.1 T/M FLASHED. BRUSHES CHANGED.'.
**06.02.1992** Service defect: 'A - AUXILLARY MACHINES - AUX GEN MOUNTING BOLTS REPLACED.'.
**06.02.1992** Service defect: 'A - EXHAUST - NO3 EXHAUST

GASKETS REPLACED,A/C BLOWN.'.

**28.02.1992** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BREKE GRID INSTALLED AND CONECTED.TESTED OK IN YARD.'.

**10.06.1992** Service defect: 'TS - INTO STORE AWAITING OVERHAUL DECISION'.

**CL 3**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**23.07.1989** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP FAULT - UNIT REPLACED.(C/BREAKER TRIPPING)'.

**28.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**16.08.1989** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH WIRE -T.J.33 TO FRAME, EP 33 TO FRAME, BOTH BETWEEN 33-70 BOARD.BOTH WIRES REPAIRED.'.

**21.08.1989** Service defect: 'A - ELECTRICAL MISC. TRANSITION - LOSING REVS AT TRANSITION OK. PULL METER REPLACED A/C FAULTY'.

**12.10.1989** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - BURNT CABLES - WIRING & CABLES IN ALTN COMPARTMENT REPLACED.'.

**12.10.1989** Service defect: 'TS - ENGINE - LOAD/TEST - COMPLETED.'.

**12.10.1989** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - FIRE DAMAGED - O/HAULED TURBO FITTED.(E3B).'.

**12.10.1989** Service defect: 'TS - OTHER BODY REPAIRS - FIRE DAMAGE - PARTITION WALL INSTALLED.'.

**17.10.1989** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - SMOKE FROM PEDISTAL - ENG/ROOM LIGHT SWITCH REPLACED. (SWITCH BURNT/OUT)'.

**18.10.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR G/RELAYS UNABLE TO REPAIR.RETURNED TO PT AUGUSTA FOR REPAIRS'.

**27.10.1989** Service defect: 'UN - TRACTION MOTOR - NO.1.TRACTION MOTOR REPLACED A/C G/RELAY OPERATION.INTERPOLELOW READING. NO.4.TRACTION MOTOR CLEANED A/C FLASHOVER.'.

**31.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - NO'S 2,3,4,5,6.(4BAGS)OF CRATER ADDED TO GEAR CASES. NO.1.FULL.'.

**31.10.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - GR OPERATION , FLASHOVERS ON NO.1 & 4 MOTORS CLEANED UP. 6R52 WIRE FOUND OFF,G.F.D. AFFECTING O.R.S. OPERATION.'.

**13.11.1989** Service defect: 'UN - NO FAULT FOUND - DYNAMIC BRAKE - NOT OPERATING,I/LOCKS,CONTACTORS,D/B GRIDS AND L.R VOLTS CHECKED O.K.'.

**15.11.1989** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE - B6 CONTACTOR REPLACED DUE TO CONTACTORS PICKING UP,BUT NO REVS OR LR VOLTS.'.

**19.11.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 2BAGS OF CRATER ADDED TO ALL GEAR CASES.'.

**24.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**29.12.1989** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK - PROTECTION UNIT REPLACED.'.

**05.01.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - LOW TRAIN/PIPE PRESSURE - REGULATING VALVE ADJUSTED. - EQUALISING & BRK/PIPE GAUGE REPL'D'.

**14.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**21.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**11.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(4,5&6),4 BAGS(1,2&3). SEIZED ADJUSTER - R.3 SLACK/ADJUSTER REPAIRED.'.

**25.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - COMPLETED. ALSO 2 BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.

**25.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.

**29.03.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**29.03.1990** Service defect: 'B - TO PROFILE A/C L.4(9),L.5(9+).A.S.A.P. (29/3)'.

**22.04.1990** Service defect: 'TS - BROKEN PIPE - BROKEN OIL PIPE - PIPE TO HOT ENGINE DEVICE REPAIRED. CRACKED FLARE - OIL PIPE TO GOVN.RE-FLARED.'.

**08.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**08.05.1990** Service defect: 'TW - NO FAULT FOUND - BOOKING ON FLAT WHEELS - CHECKED OK.'.

**08.05.1990** Service defect: 'TW - OTHER BODY REPAIRS - CAB REPAIRS - O/SIDE DOOR LATCH REPAIRED. - O/SIDE MIRROR REPLACED.'.

**23.05.1990** Service defect: 'A - ENGINE CYLINDER HEADS - CRACKED HEAD - NO.16 CYLINDER HEAD REPLACED.'.

**23.05.1990** Service defect: 'A - ENGINE WATER LEAK - USING WATER - NO.6&16 WATER ELBOWS REPLACED.(LEAKING)'.

**23.05.1990** Service defect: 'A - FUEL SYSTEM INJECTORS - SEIZED INJECTORS - NEW SET INJECTORS INSTALLED.'.

**23.05.1990** Service defect: 'A - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & ALL OIL FILTERS CHANGED.'.

**23.05.1990** Service defect: 'A - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES - NEW SET INSTALLED.'.

**06.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**23.06.1990** Service defect: 'UN - ENGINE - BURPING - TURBO SCREEN REPLACED. - (SCREEN CLOGGED & PART OF EXHAUST BAFFLE REMOVED)'.

**25.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**25.06.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - LOSS OF POWER - CONTROLLER REPAIRED.'.

**13.08.1990** Service defect: 'UN - ENGINE - CRACKED BLOCK - ENG/CHANGE & LOCO ROSTERED FOR O/HAUL.'.

**26.02.1991** Service defect: 'F - DYNAMIC BRAKE - AUX. ALT. O/HAULED. COUPLING LIGHTS, CLIP BOARED AND LIGHT, H.T. CABLES REPLACED, LOAD TEST SWITCH, DAY/NIGHT VIG. LIGHT'.

**26.02.1991** Service defect: 'F - DYNAMIC BRAKE - DYN. BKE.

RHEOSTAT CUT-OUT SWITCH FITTED.'.

**26.02.1991** Service defect: 'F - ENGINE - 'F'SERVICE - COMPLETED. ENGINE EX CL 9Q SERIAL NUMBER 69-F1-1106 MODEL 645E3 HAS BEEN UPGRADED TO E3B TYPE AND'.

**26.02.1991** Service defect: 'F - ENGINE - (NEW GEAR REPLACED - 2 CONROD FORKS, TURBO DRIVE GEAR, ORIGINAL TYPE IDLER GEAR AND STUBSHAFT, CAMSHAFT-4 OFF,'.

**26.02.1991** Service defect: 'F - ENGINE - (ORIGINAL GEAR USED - CONROD BLADES, GEAR TYPE HARMONIC BALANCER, CAMSHAFT GEARS AND CRANKSHAFT).'.

**26.02.1991** Service defect: 'F - ENGINE - AND CHROME CYLINDER LINERS REPLACED. NEW KORODY COLLIER PISTONS USED. RECONDITIONED VALVE BRIDGES. NEW CARRIER'.

**26.02.1991** Service defect: 'F - ENGINE - BEARING INSERTS, PISTON CARRIERS AND PISTON PINS, (645 E3B TYPE) USED.'.

**26.02.1991** Service defect: 'F - ENGINE - CAMSHAFT BEARINGS, INSERTS LOWER LINER AND ROCKER ROLLER BUSHES). MACHINED 2 MAIN BEARING CAPS - NOS. 6 & 9. MODIFIED'.

**26.02.1991** Service defect: 'F - ENGINE - MAIN LUBE OIL PUMP. O/HAULED SCAVENGING OIL PUMP AND WATER PUMPS. KORODY COLLIER INJECTORS USED. NEW TYPE HEAD SEAT'.

**26.02.1991** Service defect: 'F - ENGINE - PLACED INTO CL 3X. HEAD SEATS NOT MACHINED. MAIN BEARINGS AND CONROD BEARINGS RENEWED. RECONDITIONED CYLINDER HEADS'.

**26.02.1991** Service defect: 'F - ENGINE - RINGS. E3B TYPE FUEL PUMP INSTALLED. 1/4H.P. - 2GPM TURBO LUBE PUMP (ORIGINAL TYPE) INSTALLED.'.

**26.02.1991** Service defect: 'F - OTHER BODY REPAIRS - VORTEX FILTERS FITTED TO PRESSURISING FAN ROOM.'.

**01.03.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1&4 T/MOTOR CLEANED/UP A/C FLASHED. - (INSULATORS & BINDERS CLEANED/UP)'.

**04.03.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO7 INJECTOR CHANGED,A/C JAMMED 1/2 IN JAMMING FUEL RACK & GOVENOR.'.

**12.03.1991** Service defect: 'TS - ENGINE WATER LEAK - LOST WATER - NO.8 ELBOW & SEALS REPLACED. - FAILED ON TRAIN NO.2347.'.

**12.03.1991** Service defect: 'TS - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & ALL FILTERS CHANGED.'.

**10.04.1991** Service defect: 'UN - VIGILANCE - VIG SYSTEM OK ELECTRICALLY WITH VIG CUT OUT.'.

**10.04.1991** Service defect: 'UN - VIG REPAIRS.LOW READING BETWEEN ENG ROOM LIGHTS &'.

**10.04.1991** Service defect: 'UN - EARTH,TO BE REPAIRED.'.

**02.05.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL(70 BOARD LOOM TO DRIVERS CONSUL 30 WIRES.) TO PORT AUGUSTA FOR REPAIRS.'.

**10.05.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - LOOM FROM 33 BOARD TO 70 BOARD REPLACED.'.

**24.05.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - NO SPEEDO DRIVE - DRIVE & CABLE REPLACED. - (SPEEDO ADJUSTED)'.

**24.05.1991** Service defect: 'TS - NO FAULT FOUND - VIGILANCE CUT/OUT - VIGILANCE SIGNED OFF IN L.8 BOOK OK MPC.'.

**12.06.1991** Service defect: 'UN - AUXILLARY MACHINES - CAB HEATERS ETC U/S - WIRING TO C/BREAKER PANEL REPAIRED.'.

**12.06.1991** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G?CASE.'.

**12.06.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE - WIRING - LOW TENSION EARTH - 5N60 WIRE REPAIRED.'.

**18.06.1991** Service defect: 'TS - NO FAULT FOUND - LOW WATER PROTECTION - ENG/BLOCK INSPECTED,NO LEAK EVIDENT. TRIPPED. - TO BE MONITORED.'.

**19.06.1991** Service defect: 'TS - ENGINE WATER LEAK - LOSING WATER - LOCO LOAD/TESTED & BOILED IN 6 MINUTES. - THERMOSTATS & HOT ENGINE DEVICE RE-CONNECTED.'.

**24.06.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN VIBRATIONS - FRONT PRESSURISING FAN REPLACED.'.

**29.08.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO. 4 WHEELSET CHANGED'.

**29.08.1991** Service defect: 'TS - TRACTION MOTOR - NO. 4 TRACTION MOTOR CHANGED.IN-66-L-C16.OUT-81L1-1250.A/C GR'S.'.

**20.09.1991** Service defect: 'B - FUEL SYSTEM INJECTORS - NO 9 INJECTOR REPLACED,A/C ROCKER BROKEN.'.

**20.09.1991** Service defect: 'B - RADIATOR/PRESSURISING FAN - VIBRATING NOISE IN CAB,PRESS/FAN DISCONNECTED,NOISE WENT AWAY,PRESS/FAN CHECKED OK.'.

**30.09.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL TURNING MACHINE.'.

**13.11.1991** Service defect: 'A - GENERAL - OBS MIRROR REPLACED.'.

**13.11.1991** Service defect: 'A - PEE PIPE - NO 10 PEE PIPE REPLACED.'.

**13.11.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - BRUSH HOLDER ON NO 6 T/MOTOR (BOTTOM SIDE) REPLACED,A/C LOOSE HAMMER.'.

**19.11.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - NO 12 TEST COCK DRILLED OUT & REPLACED.TESTED OK.'.

**04.12.1991** Service defect: 'UN - BOGIE REPAIRS - ACCIDENT - BRAKE SPREADER BAR PIN REPLACED A/C MISSING'.

**30.12.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON WHEELS.-SENT TO WHEEL TURNING MACHINE.'.

**02.01.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SENT TO WHEEL TURNING MACHINE. A/C SKIDDED WHEELS.'.

**03.01.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L3 SANDER REPLACED.'.

**03.01.1992** Service defect: 'UN - TRACTION MOTOR EARTH - NO.3 T/M CHANGED.'.

**21.01.1992** Service defect: 'C - BOGIE - REPLACED R5 BOLSTER PAD.REPLACED R5 SHOCKER RUBBERS.'.

**21.01.1992** Service defect: 'C - ENGINE CYLINDER HEADS - NO 11 CYLINDER HEAD REPLACED,A/C NO SEAT RING.'.

**21.01.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - REPLACED R4 SANDER HOSE.REAR

SANDER MAGNET VALVE GASKET VALVE REPLACED,A/C LEAKING.'.

**21.01.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - TOP BRUSH HOLDER REPLACED IN NO1 T/MOTOR.ALL BRUSHES REPLACED IN NO 6 T/MOTOR,A/C CHIPPED,BROKEN PIGTAILS PULLED'.

**28.01.1992** Service defect: 'TS - DYNAMIC BRAKE - DYN/BRAKE EXTENDED RANGE FAULT REPAIRED,RELAY REPLACED.D/B PULLING 700 AMPS,OK ON TRIAL RUN.'.

**02.03.1992** Service defect: 'UN - TRACTION MOTOR - NO6 T/MOTOR TOP BRUSH HOLDER REPLACED.FLASHOVER CLEANED ALSOSAME MOTOR.'.

**20.03.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - 'C' VALVE WIRE FOUND LOOSE FROM BOARD.-RE-INSTALLED.'.

**20.03.1992** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOV. TOPPED UP.'.

**20.03.1992** Service defect: 'TS - OTHER BODY REPAIRS - HANDRAIL REWELDED.'.

**24.03.1992** Service defect: 'A - BATTERY MAINTENANCE - ONE BATTERY CHANGED.A/C U/S.'.

**24.03.1992** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED BY JOCK WALSH.SHARP FLANGES.SENT TO WHEEL TURNING MACHINE.'.

**24.03.1992** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - EP16 WIRE FOUND LOOSE IN MU BOARDFRONTPOSSIBLY WAS EARTHEDPUT BACK ONTO BOARD.'.

**24.03.1992** Service defect: 'A - TRACTION MOTOR - NO.6 T/M TO MONITOR.A/C FLATS ON COMMUTATOR CRACKING BRUSHES'.

**24.03.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 36 T/M BRUSHES CHANGED.'.

**24.03.1992** Service defect: 'UN - BOGIE - ALL BOGIE AXLE BOXES REWIRED.'.

**20.05.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - BRUSHES CHANGED ON NO'S 1 & 6 T/M'S,A/C PIGTAILS HANGING, FRAYED CAUSING GR'S.'.

**10.06.1992** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - NO.3 RAD. FAN FUSES2 REPLACED A/C BLOWN.BURNT LUG REPAIRED'.

**10.06.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL CHANGED'.

**10.06.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - NO.1 NO.3 &NO.6 T/M ALL BRUSHES CHANGED'.

**10.06.1992** Service defect: 'B - NO.6 T/M FOR REMOVAL A.S.A.P.'.

**27.06.1992** Service defect: 'TS - TRACTION MOTOR - NO.6 T/M CHANGED.-DIRECTION TESTED OK.'.

**03.07.1992** Service defect: 'TS - TRACTION MOTOR - NO.6 T/M CHANGED A/C EARTH ON INTERPOLE.'.

**18.07.1992** Service defect: 'TS - TRACTION MOTOR FLASHOVER - ALL BRUSHES ON NO.1 T/M CHANGED A/C FLASH-OVER.SOME PIGTAILSHANGING.'.

**18.08.1992** Service defect: 'CA - ELECTRICAL MISC. GROUND RELAY - T/M NO.1 INSPECTED AND CHANGED 7 BRUSHES A/C BROKEN OR FRAYED PIG TAILS. FLASH OVER CLEANED UP. ALL OTHER MOTORS'.

**28.08.1992** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - MICRO SWITCH FDR REPLACED A/C SANDERS NOT WORKING.'.

**28.08.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 24 T/M BRUSHES REPLACED. A/C CONDEMNING LIMIT. 12 BRUSHES REPLACED NO.3 T/M A/C BROKEN OR CHIPPED.'.

**28.08.1992** Service defect: 'A - PRESSURISING FAN TO MONITOR A/C NOISEY.28/8/92.'.

**06.10.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 1 & 3 T/MOTOR BRUSHES REPLACED & CLEANED UP.T/MOTORS PAINTED, LOCO MEGGERED OK, A/C GROUND RELAYS.'.

**28.10.1992** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED, MOVEMENT TESTED OK.'.

**21.11.1992** Service defect: 'TS - BOGIE MAINTENANCE - WICKS - R6 WICK REPLACED, A/C DIRTY.'.

**21.11.1992** Service defect: 'TS - TRACTION MOTOR - NO 6 T/MOTOR REPLACED, A/C SUPPORT BEARING. T/M IN- 66KC-127T/M OUT- 69F1-1277.'.

**09.12.1992** Service defect: 'D - GENERAL - HINGES ON OBS SIDE, SIDE DOOR REPLACED, A/C WORN.'.

**09.12.1992** Service defect: 'D - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES CHANGED,BRACKETS REPAIRED.'.

**09.12.1992** Service defect: 'D - PEE PIPE - NO 11 & NO 14 P-PIPES CHANGED, A/C BROKEN.'.

**16.12.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 4 T/MOTOR CLEANED, A/C FLASHOVERS. OTHER T/M'S CHECKED OK'.

**08.03.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - 32 T/MOTOR BRUSHES CHANGED, A/C SHORT & BLOWN PIGTAILS.'.

**13.03.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - 4 BRUSHES REPLACED IN NO 4 T/M, A/C BURNT PIGTAILS. 1 BRUSH HAMMER NOT IN POSITION IN NO 1 T/M. MOTOR OKAY.'.

**03.05.1993** Service defect: 'TS - ALTERNATOR - COMPANION ALTERNATOR REPAIRS COMPLETED.'.

**03.05.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CONNECTIONS ON D14 REPAIRED, A/C BLOWN APART.'.

**03.05.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - FAN FUSE REPLACED ON NO 1 RAD FAN. DIRECTION CHECKED OK. FAN METERS & WORKS OK. A.C. OUTPUT OK. LOCO OK ON TRIAL RUN.'.

**27.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED,NOT WORKING.'.

**18.06.1993** Service defect: 'UN - BOGIE - 2 SHOCKERS REPLACED.'.

**18.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE GREASED.'.

**18.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPAIRS COMPLETED.'.

**08.07.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REMOVED FOR AL21. TURBO LUBE PUMP REMOVED FOR AL21.'.

**08.07.1993** Service defect: 'UN - BEING SENT TO M&K.12/7/93.'.

### CL 4

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443

LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**08.08.1989** Service defect: 'F - ALTERNATOR - ALT O/HAULED. AUXILLARY ALT O/HAULED. ALL CONTACTORS CHECKEDAND O/HAULED WHERE NECESSARY.'.

**08.08.1989** Service defect: 'F - COOLING SYSTEM RADIATOR - RECONDITIONED RADIATORS FITTED. THERMOSTATS O/HAULED. RAD FANS O/HAULED.'.

**08.08.1989** Service defect: 'F - ELECTRICAL MAINTENANCE -WIRING - ENG ROOM FLOOR LIFTED AND NEW HIGH TENSION CABLING INSTALLEDSOME LOW TENSION REWIRING DONE. DYN BRAKE CIRCUIT BREAKER'.

**08.08.1989** Service defect: 'F - ELECTRICAL MAINTENANCE -WIRING - MOD COMPLETED. LOAD TEST SWITCH INSTALLED. HEADLIGHT WIRING RELUGGED. DYN BRAKE EXTENDED RANGE CONTACTORS MODIFIED TO'.

**08.08.1989** Service defect: 'F - ELECTRICAL MAINTENANCE -WIRING - THE BL TYPE. HARMON SELECTOR POWER UNIT FUEL SAVING DEVICE FITTED. FIXED JUMPER CABLE FITTED.'.

**08.08.1989** Service defect: 'F - ENGINE - 2 MAIN BEARING CAPS MACHINED. LOWER LINER INSERTS RENEWED. 1 NEW FORK AND BLADE ROD INSTALLED. 1 CAMSHAFT SEG FITTED.'.

**08.08.1989** Service defect: 'F - ENGINE - ENG EX AL23 O/HAULED AND INSTALLED. SER NO 75-J1-1053. NEW CAMSHAFT, MAIN, AND CON ROD BEARINGS INSTALLED.'.

**08.08.1989** Service defect: 'F - ENGINE - ENG LOAD TESTED OK AND H.P.3030. W/PUMPS O/HAULED. LUBE OIL PUMP MODIFIED. SCAVENGING OIL PUMP O/HAULED.'.

**08.08.1989** Service defect: 'F - ENGINE - RECHROME LINERS INSTALLED. EXAL23 PISTONS INSTALLED(16N0). 12 SECOND HAND CYL HEADS INSTALLED. NEW CARRIER INSERTS.'.

**08.08.1989** Service defect: 'F - ENGINE - TOP CYLINDER DECKS MACHINED. ENG TIMING 103 1/2 AND 148 1/2.GEAR TYPE HARMONIC BALANCER FITTED (NEW).'.

**08.08.1989** Service defect: 'F - OTHER BODY REPAIRS - DRAUGHT BOXES AND YOKES RENEWED ON BOTH ENDS. PARTITION WALLDOOR FITTED OVER AND UNDERNEATH ALT PARTITION FITTED.'.

**14.08.1989** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - ENG DRAIN PIPE BARREL UNION TIGHTENED.'.

**14.08.1989** Service defect: 'UN - GENERAL LOSS OF POWER - NO POWER - S14 CONTACTOR AND BLOCK LUBRICATED A/C STICKING.'.

**24.08.1989** Service defect: 'UN - DYNAMIC BRAKE - EXESSIVE CURRENT ON DYN BRAKE WHEN OPENING THROTTLE. DBR & BWR RHEOSTAT OK.,GRIDS OK.CONTACTERS CHECKED OK.'.

**24.08.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - 2 FUSES REPLACED ON FRONT PRESSURISING FAN A/C BLOWN . CHECKED & MEGGERED OK.'.

**24.08.1989** Service defect: 'UN - LUBRICATING SYSTEM - 4 BAGS OF CRATER ADDED TO ALL GEAR CASES.'.

**24.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT BRAKE PIPE COCK REPLACED A/C LEAKING.'.

**01.09.1989** Service defect: 'UN - BOGIE - RELOCATED SLEEVE IN CENTRE PLATE OF FRONT BOGIE.'.

**08.09.1989** Service defect: 'UN - DYNAMIC BRAKE - EXESS CURRENT IN DYN BRAKE. HIGH RESISTANT CONNECTION ON PRESS FAN,ON 70 BOARD REPAIRED.'.

**17.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.

**28.09.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - NO POWER IN FORWARD - RVF1 BOBBIN FALLEN OFF.(REPLACED) - RVR4 BOBBIN TIGHTENED.(LOOSE)'.

**03.10.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1),5 BAGS(2,3,4,5&6).'.

**12.10.1989** Service defect: 'TS - CONTACTOR WELDED - CONTACTOR JAMMING - P6 CONTACTOR REPLACED.'.

**12.10.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - PLATE REMOVED FROM TOP OF NO.5 T/MOTOR. - AR10 & G/RELAY CIRCUIT CHECKED OK.'.

**26.10.1989** Service defect: 'UN - DYNAMIC BRAKE - NO POWER AFTER DYNAMIC BRAKE ,(NO FAULT FOUND.)'.

**03.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - INTERLOCK BOX ON ELD REPLACED,A/C BROKEN BOBBIN.'.

**03.11.1989** Service defect: 'UN - GENERAL - GHAN SIGN BRACKETS INSTALLED.'.

**10.11.1989** Service defect: 'TS - ALTERNATOR - 2 CAPACITORS IN ALTERNATOR REPLACED'.

**10.11.1989** Service defect: 'TS - CONTACTOR INTERLOCKS - M12 & P1 CONTACTORS REPLACED.'.

**10.11.1989** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - GPT WIRES ON 70 BOARD REPAIRED. REPLACED CR1 & CR 41 ON POWER CONTROL PANEL. REPAIRED TRP A/C BROKEN WIRE & LOOSE'.

**10.11.1989** Service defect: 'TS - LUBRICATING SYSTEM - LUBE CHECK - 4 BAGS OF CRATER ADDED TO ALL GEAR CASES.'.

**10.11.1989** Service defect: 'TS - RADIATOR/PRESSURISING FAN - PRESSURISING FAN REPLACED.'.

**27.11.1989** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**02.12.1989** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC - ECONOMY RESISTOR ON B56 CONTACTOR REPLACED. - (CONTACTOR CHATTERING) DYNAMIC CHECKED OK.'.

**05.12.1989** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - B56 CONTACTOR REPLACED,OPERATION CHECKED OK.'.

**17.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. BRAKE ADJUST - WORN BLOCKS REPLACED & BRAKES ADJUSTED.'.

**29.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - NO.2-12 BAGS, NO.1-8 BAGS, NO.4&6-6 BAGS NO.3&5-2 BAGS ADDED.'.

**07.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FAULTY GAUGE - AIR COMPRESSOR GAUGE REPLACED.'.

**07.01.1990** Service defect: 'UN - NO FAULT FOUND - RADIO - OPERATION CHECKED OK.'.

**15.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**23.01.1990** Service defect: 'A - TO BE PROFILED A/C R.4 FLANGE (8). (23/1)'.
**08.02.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP OPERATION - PULL/METER SHUNT REPLACED.'.
**18.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS(1,2,4,5&6).'.
**08.03.1990** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - COMP GOV FAULT - NEW COMPRESSOR GOVERNOR INSTALLED A/C NO ADJUSTMENT LEFT FOR DIFFERENTIAL PRESSURE.'.
**15.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(5),4 BAGS(1),5 BAGS(2,3&6),6 BAGS(4'.
**15.03.1990** Service defect: 'TW - OTHER BODY REPAIRS - DOOR LATCH - REPAIR COMPLETED.'.
**19.03.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FUEL TEST - HARMON FUEL TEST COMPLETED.'.
**04.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HARMON FUEL TEST - COMPLETED.'.
**12.04.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS(2),6 BAGS(1,3,4,5&6) DRIVE GEAR - NO.2 DRIVE GEAR CHECKED OK.'.
**05.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,3,4&5),6 BAGS(2&6).'.
**08.05.1990** Service defect: 'UN - BOGIE - ROUGH RIDING - RESILIANT RUBBERS CHECKED,4 NO.REPLACED.'.
**20.05.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**20.05.1990** Service defect: 'TS - ENGINE WATER LEAK - USING COOLING WATER - #3 JUMPER/LINE REPLACED.'.
**20.05.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - M/RESERVOIR COCK - REPLACED.(DAMAGED)'.
**01.06.1990** Service defect: 'UN - ENGINE - BOOKED FOR OIL LEAKS,BOLTS BETWEEN INTER COOLER & AIR BOX TIGHTENED A/C LOOSE.'.
**17.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - BLOCKS RE-NEWED & BRAKES ADJUSTED.'.
**24.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**08.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 4 BAGS ADDED TO EACH CASE.'.
**10.07.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - SUSPECT TURBO - NO PROBLEM FOUND. TURBO TO BE KEPT UNDER OBSERVATION.'.
**28.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(3),5 BAGS(1),6 BAGS(2,4,5&6).'.
**08.08.1990** Service defect: 'TS - COOLING SYSTEM RADIATOR - LOST WATER - D/SIDE NO.1 RADIATOR REPLACED.'.
**18.08.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,5&6),8 BAGS(3&4).'.
**18.08.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - D/SIDE NO.1 RADIATOR REPLACED.'.
**31.08.1990** Service defect: 'TS - AUXILLARY MACHINES - COLLAPSED FAN - AUX/GEN REPLACED.'.
**31.08.1990** Service defect: 'TS - TO BE LIFTED A/C FAN PARTICLES IN DUCTING. (31/8)'.
**31.08.1990** Service defect: 'TS - * AUX/GEN FAILURE *'.
**01.09.1990** Service defect: 'SW - ENGINE - DEBRIS IN DUCTING - LOCO LIFTED & DUCTING CLEANED OUT. - (AUX/GEN FAN BLADES IN DUCTING)'.
**13.09.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 6 BAGS(1,2&5),7 BAGS(3,4&6).'.
**13.09.1990** Service defect: 'TS - NO FAULT FOUND - G/RELAY OPERATION - LOCO MEGGERED & CHECKED,UNABLE TO FAULT.'.
**13.09.1990** Service defect: 'TS - OTHER BODY REPAIRS - SMASHED WINDOW - D/SIDE WINDOW REPLACED.'.
**14.09.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO.2 T/MOTOR CHANGE/OUT A/C EARTH FAULT.'.
**14.09.1990** Service defect: 'TS - NO.2 T/MOTOR CHANGE A/C EARTH FAULT.'.
**17.09.1990** Service defect: 'SW - TRACTION MOTOR EARTH - EARTH FAULT - NO.2 T/MOTOR REPLACED - (INT/POLE TRACKING TO FRAME)'.
**19.09.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP - R4B WHEEL/SLIP RESISTOR REPLACED.(O.C.C.) - LOCO TESTED IN DEPOT NO WHEEL/SLIP OCCURED.'.
**31.10.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - AUX/GEN BLADE REMOVED NO.6 T/MOTOR. - (LODGED IN TOP BRUSH/HOLDER)'.
**31.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**31.10.1990** Service defect: 'TW - NO FAULT FOUND - G/RELAY OPERATION - LOCO CHECKED IN DEPOT,NOT FAULTED.'.
**10.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(1,2&5),5 BAGS(3,4&6).'.
**15.11.1990** Service defect: 'UN - OTHER BODY REPAIRS - SMASHED WINDOW - D/SIDE WINDOW REPLACED.'.
**08.12.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.2&3 T/MOTORS & AIR DUCT DRIED OUT. - (WATER IN SYSTEM)'.
**12.12.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS(2,3),6 BAGS(1,4,5&6).'.
**19.01.1991** Service defect: 'UN - ENGINE WATER LEAK - PROTECTION DEVICE LEAKING WATER - CHANGED.'.
**22.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - HAND BRAKE REPAIRED.A/C CHAIN CAME APART.'.
**07.05.1991** Service defect: 'A - BOGIE - L3 SLACK ADJUSTER REPLACED.'.
**07.05.1991** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - LARGE EXHAUST TURBO GASKET REPLACED.'.
**07.05.1991** Service defect: 'A - OTHER BODY REPAIRS - L.H.S. MIRROR REPLACED.'.
**07.05.1991** Service defect: 'A - NO 1 TM. TO PAINT INTERNALLY A/C FLASHOVERS.'.
**20.05.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - P5 CONTACTOR REPLACED - CLEANED & REBRUSHED NO'S 1 & 6 T/M'SA/C GR'S..'.
**11.06.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1&4 T/MOTORS CLEANED/UP A/C FLASHED.'.
**24.06.1991** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - NO.14 HEAD GASKET REPLACED.(GROMMETS SPLIT) - NO.14 CYL/HEAD REPLACED.(RE-COND.)'.
**24.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - FUEL GAUGE U/S - D/S FUEL SIGHT GLASS REPLACED.

CAP MISSING - D/S FUEL TANK CAP REPLACED.'.
**05.07.1991** Service defect: 'C - BOGIE - SHOCK ABSORBER LEFT SIDE REAR RUBBERS CHANGED.SANDING HOSE CHANGED.'.
**05.07.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 3 WICKS CHANGED.'.
**02.08.1991** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC - OCL RE/SET,TESTED IN DEPOT OK.'.
**02.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - CHAIN BROKEN - HAND/BRAKE CHAIN REPAIRED.'.
**06.09.1991** Service defect: 'A - ENGINE LINER - NO11 POWER ASSY REPLACED A/C BROKEN LINER STUD.'.
**06.09.1991** Service defect: 'A - FUEL SYSTEM - FUEL TANK CRACKS REPAIRED.'.
**06.09.1991** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A' END PACKAGE ASSY REPLACED A/C BLOWN PACKAGE.'.
**10.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN CHAIN - H/BRAKE CHAIN REPAIRED.'.
**05.11.1991** Service defect: 'B - ELECT - RECEPTACLES/INTER CAR COUPLINGS - PIN IN HOT ENG. ALARM PLUG CLEANED AND REPAIRED.'.
**05.11.1991** Service defect: 'B - ELECTRICAL MAINTENANCE - REVERSER - REPAIRED REVERSER. A/C JAMMING GOING INTO FORWARD.'.
**05.11.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 18 T/M BRUSHES CHANGED.NO.3 T/M PIG TAILS TOUCHING TO EARTH.'.
**16.01.1992** Service defect: 'A - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH ON HOTPLATE REPAIRED.'.
**16.01.1992** Service defect: 'A - ENGINE - NO 5 POWER ASSEMBLY CHANGED.'.
**11.03.1992** Service defect: 'TS - BOGIE - B/END BOGIE CHANGED AND TESTED OK.'.
**11.03.1992** Service defect: 'TS - VIGILANCE - VIGILANCE REPAIRED.THREE WAY SOLENOID VIG VALVE REFITTED.'.
**08.04.1992** Service defect: 'E - FUEL SYSTEM LINES - FUEL LINE TO INJECTOR ON CYL 15 CHANGED,A/C LEAKING.'.
**08.04.1992** Service defect: 'E - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED ON NO 3 T/M A/C BROKEN.'.
**15.06.1992** Service defect: 'TS - GENERAL - CHANGED O/SIDE FRONT W/SCREEN. USING EX. CL 2 WINDOW.'.
**09.07.1992** Service defect: 'TS - BOGIE - GEARCASE SHIMMED AND TIGHTENED.'.
**09.07.1992** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO.1 WHEEL SET CHANGED.'.
**09.07.1992** Service defect: 'TS - TRACTION MOTOR - NO.1 T/M CHANGED.'.
**09.07.1992** Service defect: 'TS - VIGILANCE - 3 WAY SOLENOID REPLACED.A/C VIGILANCE U/S.'.
**09.07.1992** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L1 WICK CHANGED.-POST TRIAL RUN.'.
**23.07.1992** Service defect: 'UN - NO FAULT FOUND - 'B'END COUPLER INSPECTED OK.'.
**16.09.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R6 WICK REPLACED.'.
**16.09.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - RVR 4 CONTACT TIP REPLACED.'.
**16.09.1992** Service defect: 'A - COOLING SYSTEM RADIATOR - NO 1 O/S RADIATOR CORE REPLACED.'.
**16.09.1992** Service defect: 'A - FUEL SYSTEM - HARMON FUEL SAVER REMOVED AND STORED.'.
**16.09.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPLACED.'.
**23.09.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 1 W/SET INSTALLED. BOGIE LUBED ON NO1 W/SET. LOCO MOVEMENT TESTED OK.'.
**13.10.1992** Service defect: 'UN - EXHAUST - TURBO EXHAUST EXPANSION JOINT & GASKETS REPLACED, A/C LEAKING.'.
**11.11.1992** Service defect: 'UN - TRACTION MOTOR - BRUSH REPLACED IN NO 6 ,5,2, TRACTION MOTORS 11 BRUSHES CHANGED A/C GROUND RELAYS'.
**07.12.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED IN NOS 1,2,4,5 & 6 T/MOTORS. BOTTOM BRUSHOLDER CHANGED IN NO 6 T/M, A/C GR'S.'.
**22.12.1992** Service defect: 'A - BOGIE - R4 & L6 PEDESTAL LINERS REPAIRED.'.
**22.12.1992** Service defect: 'A - ENGINE - L.H. AFTERCOOLER DUCT REPLACED, A.C BLOWN GASKET.'.
**22.12.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R2,3,& 4 + L2 SANDERS CLEARED. R1 SANDBOX RESECURED TO LOCO.'.
**23.12.1992** Service defect: 'B - AUXILLARY MACHINES - ALL AUX.GENERATOR BRUSHES CHANGED.'.
**23.12.1992** Service defect: 'B - TRACTION MOTOR - T/M 4,5.OUT OF ROUND.SLIP RINGS CHANGED.'.
**12.01.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE WORKING ,CHANGED CONTACTOR.'.
**12.01.1993** Service defect: 'UN - NO FAULT FOUND - INSPECTED RADIATOR,EXHAUST,TOP DECK,FULL BAR OVER INSPECTIONNO LEAKS FOUND.'.
**19.03.1993** Service defect: 'C - BOGIE - BOGIES REPLACED - EX AL 21. 6 BAGS OF CRATER ADDED TO ALL GEAR CASES,A/C EMPTY & SHINY GEARS.'.
**19.03.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 9 WICKS REPLACED.'.
**19.03.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - REPLACED CONTACT ON DB SHORTING CONTACTOR D/SIDE, CLOSEST CONTACTOR TO GRIDS BUT CLOSET TO FRONT OF LOCO CONTACT.'.
**19.03.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - REPLACED NO 1 TEST COCK.'.
**31.03.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 6 WHEELSET CHANGED, A/C FLATS. LUBE COMPLETED & DIRECTIONTESTED OK.'.
**09.06.1993** Service defect: 'A - BOGIE - L6 HORNSTAY BOLT REPLACED. R6 GEARCASE BOLT TIGHTENED.'.
**09.06.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1 & R3 WICKS CHANGED.'.
**09.06.1993** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - DRAIN COCK ON COMP GOV CHANGED,A/C LEAKING.'.
**09.06.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - BOTTOM BRUSH HOLDER ON NO 6 T/MOTOR MOVED AWAY FROM COMM,A/CLOOSE & TOO CLOSE.'.

**CL 5**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**10.07.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - BRUSH/COMM.CONDITION - CHECKED OK.(T/MOTORS BEING MONITORED)'.
**29.07.1989** Service defect: 'TS - DYNAMIC BRAKE - HIGH RESISTANT JOINT - DYN/BRAKE CABLES REPAIRED/REPLACED. ON DYNAMIC CABLES.'.
**21.08.1989** Service defect: 'A - RADIATOR/PRESSURISING FAN - 2 BLOWN FUSES ON NO.2.RADIATOR FAN.FAN OK. FUSES REPLACED.'.
**24.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY REPLACED A/C CELLS DOWN.'.
**02.09.1989** Service defect: 'UN - STARTER MOTOR - 1 NO. STARTER MOTOR REPLACED,CHECKED OK.'.
**15.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL FILTERS INSTALLED.'.
**03.10.1989** Service defect: 'UN - BLOCKED FILTERS - CLOGGED FILTERS - AIR INTAKE FILTERS REPLACED.'.
**03.10.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1 T/MOTOR CLEANED/UP.'.
**01.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TURBO LUBE PUMP MOTOR CHECKED OUT OK.'.
**10.11.1989** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYNAMIC BRAKE REPLACED.'.
**10.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - FAN WIRING REPLACED A/C BURNT.'.
**10.11.1989** Service defect: 'UN - RADIATOR/PRESSURISING FAN - BOTH DYN BRAKE FANS REPLACED A/C US.'.
**12.12.1989** Service defect: 'UN - BOGIE - BOGIE CHANGE - 'A'BOGIE EX AL21 INSTALLED.'.
**12.12.1989** Service defect: 'UN - DYNAMIC BRAKE - - (FAN BLADES SHATTERED) * FULL DYN.SET/UPS COMPLETED & LOCO TEST RUN COMPLETED *'.
**12.12.1989** Service defect: 'UN - DYNAMIC BRAKE - - NEW GRIDS INSTALLED.(FAN BLADEDAMAGE) - O/H COOLING FAN MTR FOR GRIDS INSTALLED.'.
**12.12.1989** Service defect: 'UN - DYNAMIC BRAKE - - NEW HATCH/SPLICE PLUG FITTED. - O/HAULED CONTACTOR INSTALLED.'.
**12.12.1989** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC SHORTOUT - DYNAMIC HATCH RE-WIRED. H/T.REWIRED. - L/T.WIRING RE-WIRED A/C SHORT/OUT DAMAGE.'.
**21.12.1989** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - CLOGGED AFT/COOLERS - BOTH AFT/COOLERS REPLACED.'.
**21.12.1989** Service defect: 'A - OTHER BODY REPAIRS - MODIFICATION - PARTITION MOD COMPLETED.'.
**01.01.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**01.01.1990** Service defect: 'UN - NO FAULT FOUND - G/RELAY OPERATION - T/MOTORS & ALTN.CHECKED OK.'.
**05.01.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - - ALL T/MOTORS CHECKED & MEGGERED OK. - AR10 CHECKED & MEGGERED OK.'.
**05.01.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1 DYNAMIC FAN REPLACED. - (EARTH ON FIELDS) NO OTHER FAULT EVIDENT'.
**08.01.1990** Service defect: 'UN - DYNAMIC BRAKE - - DYNAMIC TESTED OK IN DEPOT.'.
**08.01.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - DYNAMIC FAN - DYN/BRK.COOLING FAN CHECKED OK.(DISCOLOURED) (NO.1 FAN) - BOTH MOTORS RUN ON BATT.CHARGER SAME CURRENT.'.
**10.01.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - COMM.FAILURE - NO.1 DYNAMIC FAN REPLACED.'.
**14.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(1-5),4 BAGS(6).'.
**24.01.1990** Service defect: 'UN - OTHER BODY REPAIRS - SHATTERED WINDOW - D/SIDE WINDOW REPLACED. DOOR LATCH - ENGN.ROOM SIDE DOOR LATCH D/S REPAIRED.'.
**24.01.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORTED - NO3 FAN CONTACTOR LUBRICATED A/C STICKING.'.
**26.01.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORTS - THERMOSTATS REPLACED.(OUT OF ADJ/MENT) - LOCO LOAD/TESTED.'.
**29.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**04.02.1990** Service defect: 'UN - BOGIE - ROUGH RIDING - NEW SET OF RESILIANTS INSTALLED.'.
**04.02.1990** Service defect: 'UN - NO FAULT FOUND - NO POWER - M4-5 TESTED,LOCO PULLING AMPS OK.'.
**04.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - SHATTERED WINDOW - D/SIDE CAB WINDOW REPLACED.'.
**06.02.1990** Service defect: 'UN - GENERAL - DRIVERS WINDOW REPAIRED.'.
**07.02.1990** Service defect: 'UN - BOLSTER PAD MOUNTS TO REPLACE NEXT TIME IN DEPOT.'.
**07.02.1990** Service defect: 'UN - (7/2)'.
**08.02.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING - BOLSTER MOUNTING PADS REPLACED.('A'BOGIE)'.
**18.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,3,4,5&6)'.
**18.02.1990** Service defect: 'TW - STARTER MOTOR - STARTER/MOTOR COVER - REPAIRED.'.
**20.02.1990** Service defect: 'UN - FUEL SYSTEM - ALL FUEL FILTERS CHANGED A/C SHUT DOWN ENROUTE NO APPARENT REASON FILTERS DIRTY'.
**28.03.1990** Service defect: 'TS - NO FAULT FOUND - SHUT/DOWN - FUEL PUMP CIRCUIT CHECKED OK.'.
**02.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - R3 SAND PIPE BRACKET SECURED.SAND TRAP TO BE REPAIRED AT PT AUGUSTA.'.
**02.04.1990** Service defect: 'UN - SAND TRAP TO REPLACE/P.AUG.'.
**09.04.1990** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SAND TRAP CRACKED - R.3 SAND TRAP REPLACED.'.
**12.04.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**26.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**26.04.1990** Service defect: 'UN - NO FAULT FOUND - LOCO SHUT/DOWN - CHECKEED IN DEPOT,NOT FAULTED.'.
**01.05.1990** Service defect: 'UN - BOGIE - BOGIE NOISE - NO.4 DRIVE GEAR TO MONITOR.(EXCESS WEAR)'.
**08.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**10.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - R.4 WICK CHECKED OK. - CHECKED A/C GEAR WEAR.'.
**10.05.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC MODIFICATION - COMPLETED.'.
**01.06.1990** Service defect: 'E - BOGIE MAINTENANCE - WHEELS - SHARP FLANGE - NO.3 WHEELSET CHANGED OUT AT PETERBOROUGH.'.
**01.06.1990** Service defect: 'SW - BOGIE - L3 INNER BRAKE STRAP REPLACED A/C RAZOR SHARP, L3 SLACK ADJ. REPLACED ALSO A/C SEIZED. NO.3 WICK CHECKED.'.
**01.06.1990** Service defect: 'E - L3 INNER BRAKE STRAP TO REPLACE (31/5)'.
**25.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**01.07.1990** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - HUNTING - LOAD REGULATOR REPAIRED. LOAD BANKED O.K.'.
**08.07.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN. BRAKE - DBR AND BWR SET UP. DYNAMIC CHECKED O.K.'.
**12.07.1990** Service defect: 'A - DYNAMIC BRAKE - DYNAMIC BRAKE - PULL METER & SHUNT REPLACED. LOCO TRACK TESTED O.K.'.
**22.07.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**22.07.1990** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO LUBE PUMP - REPLACED.'.
**22.07.1990** Service defect: 'SW - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & ALL OIL FILTERS REPLACED. - NO.6&16 FUEL LINES REPLACED.(LEAKING)'.
**22.07.1990** Service defect: 'SW - NO FAULT FOUND - DYNAMIC BOOKED - OPERATION CHECKED OK.'.
**30.07.1990** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC FAULT - SENSOR REPLACED,TEST RUN COMPLETED OK.'.
**06.08.1990** Service defect: 'UN - R.3 WHEEL CHANGE A/C FLANGE CONDITION. (6/8)'.
**07.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEEL - NO.3 WHEEL SET REPLACED.'.
**07.08.1990** Service defect: 'SW - TRACTION MOTOR - DAMAGED COMM.- NO.4 T/MOTOR REPLACED. - (BRUSH/HOLDER DAMAGE COMM.)'.
**08.08.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK -'.
**08.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.3&4 WICK CHECKED OK.'.
**24.08.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(4&5),5 BAGS(1&2),6 BAGS(3&6).'.
**24.08.1990** Service defect: 'B - NO.4 T/MOTOR TO MONITOR.(BRUSHES BREAKING) (24/8)'.
**03.09.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - O/SIDE NO.3 RADIATOR REPLACED.'.
**05.09.1990** Service defect: 'UN - T/MOTOR CHANGE A/C PINION END BEARING U/S. (5/9)'.
**06.09.1990** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.4 T/MOTOR REPLACED.(EXCESS SIDE/SLAP) - (PINION BEARING SUSPECT)'.
**07.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**21.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**03.10.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED OK IN DEPOT.'.
**24.10.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - FUSES REPLACED NO.2 RAD/FAN CIRCUIT. - (FUSES BLOWN),FAN,PLUG & WIRING OK.'.
**29.10.1990** Service defect: 'UN - OVERHEATING - - FANS & THERMOSTATS CHECKED OK.'.
**29.10.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE SHUT/DOWN - MICHIANA FILTERS,TURBO FILTERS REPL'D - (23 LB REGISTERED ON MICHIANA TANK)'.
**30.10.1990** Service defect: 'UN - ENGINE - LOAD/BANK COMPLETED - A/C HOT ENGINE SHUT/DOWN.(NOT FAULTED)'.
**07.11.1990** Service defect: 'TS - ENGINE - SHUTTING/DOWN - LOCO LOAD/TEST COMPLETED.(NOT FAULTED)'.
**21.11.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SHARP FLANGE NO.3 - O/HAULED BOGIES INSTALLED.(AL104 & AL103'.
**24.11.1990** Service defect: 'UN - BOGIE - L1 SUSPENSION BEARING PACKED & RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**24.11.1990** Service defect: 'UN - NO.1 SUSP.BEARINGS TO REPLACE'.
**27.11.1990** Service defect: 'UN - BOGIE - SUPPORT BEARING FAILURE - NO.1 WHEEL/SET CHANGED.(AXLE U/S) (WICK BURNT OFF) - NO.1 T/MOTOR REPLACED.'.
**27.11.1990** Service defect: 'UN - 10 INCH CRACK AT WELD ON TOP OF FUEL TANK OBSERVOR'.
**27.11.1990** Service defect: 'UN - SIDE.'.
**10.12.1990** Service defect: 'TS - BOGIE - BEARING FAILURE - NO.5 T/MOTOR REPLACED. - (SUPPORT BEARING FAILURE)'.
**07.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.6 WHEEL LOCK/UP -'.
**05.02.1991** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**11.03.1991** Service defect: 'UN - BATTERY MAINTENANCE - 1 BATTERY CHANGED.'.
**11.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO GLASS REPLACED.'.
**12.04.1991** Service defect: 'B - RADIATOR/PRESSURISING FAN - RAD FAN REPLACED EX CL 10.'.
**13.05.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVENOR OIL LINE REPLACED.EX GM 18.'.
**13.05.1991** Service defect: 'TS - EXHAUST - ENGINE EXHAUST EXPANSION JOINT REPLACED.'.
**24.05.1991** Service defect: 'UN - COOLING SYSTEM WATER PUMP - LOSS OF WATER - L/H WATER PUMP CHANGED.(TELL/TALE LEAK)'.
**07.06.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - CONTACTS TIPS IN S25 BURNT & MELTED (BACK CABINET),OPERATIONOF S25 IN

STATIC POWER TEST CHECKED OK.'.

**07.06.1991** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER PACKAGE REPLACED.'.

**07.06.1991** Service defect: 'A - TOILET RUBBER SPLIT,NIL STOCK MPC.11/6.'.

**02.08.1991** Service defect: 'D - GENERAL - DOOR LATCH REPAIRED.'.

**02.08.1991** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE PROBLEM CHECKED,NO FAULT EVIDENT.'.

**18.09.1991** Service defect: 'A - ENGINE - NO 15 POWER ASSEMBLY REPLACED,A/C WORN LINER,CHROME FLAKING.NO 12 TEST COCK CHANGED.'.

**24.10.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - L2 AXLE BOX CHANGED.'.

**28.10.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO 5 T/MOTOR - PIGTAIL BLOWN FROM BRUSH,REPAIRED,A/C 2 GR'S.'.

**15.01.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPAIRED.'.

**14.02.1992** Service defect: 'B - AUX.GEN.COVER MISSING.'.

**11.05.1992** Service defect: 'UN - ENGINE - NO 4 ROCKER GEAR ASSEMBLY REMOVED & CAMSHAFTS INSPECTED. OIL'.

**20.05.1992** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHANGED,VOLTAGE 71.2V (RUNNING) 66V(STOPPED).'.

**20.05.1992** Service defect: 'TS - MECHANICAL EQUIPMENT - COMPRESSOR GOVERNOR REPLACED,A/C NOT WORKING PROPERLY.'.

**20.05.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED,A/C CLOCK ROLL NOT WORKING.'.

**08.07.1992** Service defect: 'TS - TRACTION MOTOR - NO.5 T/M REPLACED AND RECONNECTED.-DIRECTION TESTED OK.'.

**09.07.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED.A/C U/S.'.

**22.07.1992** Service defect: 'C - BLOCKED FILTERS - DYNACELL FILTERS REPLACED.-L/H/S AFTER COOLER REPLACED.'.

**22.07.1992** Service defect: 'C - COOLING SYSTEM - COOLANT REPLACED.'.

**22.07.1992** Service defect: 'C - ENGINE - RUBBERS ON MARMON COUPLING REPLACED.-OIL LINE FROM GOVERNOR TO LOAD REGULATOR REPLACED.'.

**22.07.1992** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR CUT-OUT PRESS ADJUSTED TO 125PSI.'.

**22.07.1992** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - 'A'END THROAT PLATE REPAIRED. 'B'END THROAT PLATE TIGHTENED AND ONE BOLT ADDED.'.

**22.07.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE PRESSURE ADJUSTED A/C TOO HIGH.'.

**26.07.1992** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - NO 5 TRACTION MOTOR CLEANED UP 3 BRUSHES REPLACED'.

**26.07.1992** Service defect: 'TS - NO 5 TRACTION MOTOR BRUSH HOLDER SPRING CLIP'.

**26.07.1992** Service defect: 'TS - BROKEN AND BRUSH LEFT OUT'.

**20.08.1992** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - WHEELSET NO.5 CHANGED A/C GROOVED AXLE.'.

**20.08.1992** Service defect: 'TS - STARTER MOTOR - STARTER MOTORS REPLACED A/C USED FOR CL 11.'.

**20.08.1992** Service defect: 'TS - TRACTION MOTOR - NO.5 T/M CHANGED A/C SUSPECT PINION SUPPORT BEARING FAILURE.FIELD CORE FALLEN AGAINST ARMATURE ON AXLE SIDE.'.

**24.08.1992** Service defect: 'TS - TRACTION MOTOR - NO.5 T/M CHANGED A/C G/RELAYS - ARMATURE DOWN TO FRAME. T/M OUT D77B 75H 129. T/M IN D77B 80C1 1618.'.

**23.09.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - LOCO SENT ON TRIAL RUN, DYNAMIC OK, LOCO POWER OK, A/C GR'S.'.

**02.10.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2 & R6 WICKS REPLACED, A/C SAMPLES DIRTY.'.

**02.10.1992** Service defect: 'A - GENERAL - R/SIDE FUEL TANK SIGHT GLASS CLEANED.'.

**02.10.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L6 & R6 SAND PIPE RENEWED.'.

**02.10.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS CHANGED.'.

**22.10.1992** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED. BOGIE IN 'A'END - AL 104. 'B'END AL 103. BOGIE OUT 'A'END - CL 108. 'B'END CL 136.BOGIES SWAPPED'.

**22.10.1992** Service defect: 'SW - RADIATOR/PRESSURISING FAN - RAD FAN GRILLE REPAIRED & FAN TESTED OK.'.

### CL 6

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**07.07.1989** Service defect: 'UN - DYNAMIC BRAKE - DYN.BRAKE FAULT - OCL RE-SET & OPERATION CHECKED OK.'.

**24.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**15.08.1989** Service defect: 'SW - OTHER BODY REPAIRS - PARTITION WALL BETWEEN ALT/ENG DEFERRED TILL 20/8 A/C STAFF AVAILABILITY.'.

**27.08.1989** Service defect: 'TW - LUBRICATING SYSTEM - NO.1.(2BAGS),NO.2,3,(6BAGS),NO.4,5,6,(4BAGS),OF CRATER ADDEDTO GEAR CASES.'.

**27.08.1989** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED A/C BLOCKED.'.

**14.09.1989** Service defect: 'A - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.

**17.10.1989** Service defect: 'TS - OTHER BODY REPAIRS - MODIFICATION - PARTITION WALL MODIFICATION COMPLETED.'.

**23.10.1989** Service defect: 'UN - BOGIE - ALL D/S SANDERS REPAIRED A/C BLOCKED.'.

**17.11.1989** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 2 GRIDS CHANGED A/C BURNT OUT.'.

**17.11.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - FAN WIRING

RENEWED A/C BURNT. SET UP DBR,BWR & EXTENDED RANGE. TEST RUN OK.'.

**17.11.1989** Service defect: 'TS - RADIATOR/PRESSURISING FAN - DYN BRAKE FAN CHANGED A/C DAMAGED.'.

**25.11.1989** Service defect: 'UN - VIGILANCE - FAULTY UNIT - VIGILANCE FLASHER UNIT REPLACED.'.

**05.12.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**05.12.1989** Service defect: 'A - TO BE PROFILED A/C R.6 SHARP/FLANGE (9) (5/12)'.

**14.12.1989** Service defect: 'WT - BRAKE ADJUST MILE END'.

**23.12.1989** Service defect: 'UN - BROKEN PIPE - BROKEN OIL PIPE - OIL PIPE FROM OIL PUMP TO STRAINER BOX - FITTING REPLACED AT OIL PUMP A/C BROKEN.'.

**19.01.1990** Service defect: 'UN - GENERAL - BOOKED FOR BAD SIDE MOVEMENT ABOVE 70KPH,CHECKED NO FAULT FOUND.'.

**22.01.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(6),5 BAGS(1&5),6 BAGS(2&4). - 10 BAGS (3).'.

**31.01.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING -'.

**09.02.1990** Service defect: 'UN - ENGINE - OIL LEAKS - OIL/COOLER PIPE & HOT OIL SHUT/DOWN DEVICE REP'D'.

**09.02.1990** Service defect: 'UN - NO FAULT FOUND - CRANK/CASE OPERATION - LOCO TESTED,NO CAUSE FOUND. - MANOMETER TESTED OK.(2 3/4'VACUUM)'.

**03.03.1990** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 5 BAGS OF CRATER ADDED TO ALL GEAR CASES.'.

**20.03.1990** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - HIGH READINGS - AFT/COOLERS CHANGED.'.

**20.03.1990** Service defect: 'E - TO BE LOAD/TESTED WHEN LOCO AVAILABLE. (20/3)'.

**22.03.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BLOWN FUSE - REPLACED VOLTAGE REGULATOR'.

**10.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - L1 BRAKE TRAVELS ADJUSTED.'.

**15.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,3&6),12 BAGS(4&5).'.

**19.04.1990** Service defect: 'UN - BOGIE - BRAKES ADJUSTED.'.

**09.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(6),5 BAGS(2),6 BAGS(1),3,4&5 OK.'.

**19.05.1990** Service defect: 'UN - TRACTION MOTOR - 9 BRUSHES CHANGED IN NO 4&5 TM'S A/C SHORT.NO2 TM HAD ALSO FLASHED,BURNT,CLEANED.'.

**19.05.1990** Service defect: 'UN - NO2 TRACTION MOTOR COVER TO REPLACE'.

**01.06.1990** Service defect: 'UN - ENGINE - BOOKED FOR OIL LEAKS,OIL LEAK FROM OIL SEAL AROUND WATER INLET TO OIL COOLER RHS.'.

**01.06.1990** Service defect: 'UN - LEAKING OIL COOLER.'.

**17.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**02.07.1990** Service defect: 'SW - LUBRICATING SYSTEM OIL COOLER - OIL COOLER REMOVED & REPAIRED A/C CRACKED.'.

**10.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 5 BAGS ADDED TO NOS.1,2 & 3 G/CASES.2 BAGS ADDED TO NOS. 4 & 5 G/CASES. 1 BAG ADDED TO NO. 6 G/CASE.'.

**10.07.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - BENT RECP. PINS STRAIGHTENED O/S FRONT.'.

**17.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - BLOCKED SANDERS - L.1,3,4&6 CLEARED & TESTED OK.'.

**24.07.1990** Service defect: 'A - TO BE PROFILED A/C L.4 FLANGE(10) (23/7)'.

**25.07.1990** Service defect: 'WT - WHEELS OR BOGIE TO CHANGE PORT AUGUSTA'.

**27.07.1990** Service defect: 'UN - BOGIE - BRAKES ADJUSTED A/C W.T.M.'.

**11.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(5&6),6 BAGS(2,3&4).'.

**04.09.1990** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - BURNT CLEAT - BOTTOM CLEAT REPLACED & CABLES INSULATED.'.

**04.09.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 8 NO.DIODES REPLACED L/H BANK. - (DIODES BLOWN APART)'.

**15.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**24.10.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1&3),5 BAGS(2&6),6 BAGS(4&5).'.

**24.10.1990** Service defect: 'A - DRIVER FAULT - RECEPT.DAMAGE - O/SIDE FRONT RECEPTACLE REPAIRED. - (BACKING PLATE,LOCATING PINS ETC REPLACED)'.

**02.11.1990** Service defect: 'UN - BOGIE - BRAKE GEAR - L.1 BRAKE GEAR REPLACED.(MISSING)'.

**10.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**10.11.1990** Service defect: 'TW - ENGINE WATER LEAK - WATER LEAK - BARREL UNION ON DRAIN PIPE TIGHTENED.'.

**28.11.1990** Service defect: 'SW - ENGINE - 'B'SERVICE - COMPLETED.'.

**28.11.1990** Service defect: 'SW - WEEKLY WHEEL CHECK R6 SHARP FLANGE, WHEELS TO RUN'.

**28.11.1990** Service defect: 'SW - OUT A/C TOO THIN TO MACHINE.'.

**10.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**10.12.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR PIPE REPAIR - MAIN/RES.PIPE REPAIRED. - COMPRESSOR GOVN.REPLACED.'.

**12.12.1990** Service defect: 'SW - RE-ROSTER FOR BOGIE CHANGE. (12/12)'.

**19.12.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - THIN WHEELS - O/HAULED BOGIES INSTALLED.'.

**21.01.1991** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC BRAKE- DBR REPLACED.'.

**13.02.1991** Service defect: 'UN - DYNAMIC BRAKE FAN TO REPLACE AT PORT AUGUSTA*'.

**18.02.1991** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC FAULT - D/SIDE NO.1 GRID REPLACED.(HOLED)'.

**25.02.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - ALL TM'S CHECKED OK.UNIT MEGGERED OK.A/C GR'S.'.

**27.02.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - TM'S CHECKED,ALTERNATOR CHECKED OK IN DEPOT.A/C GR'S.'.

**27.02.1991** Service defect: 'TS - SLIP RINGS FOR REMOVAL.RETURNING TO PUG.*'.
**28.02.1991** Service defect: 'SW - ALTERNATOR - SLIP/RINGS - REMOVED/MACHINED/RE-FITTED.'.
**14.03.1991** Service defect: 'CA - TRACTION MOTOR EARTH - NO4 TM CHANGED OUT,A/C EARTH.67D-C162 OUT, 67D-C167.'.
**22.03.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - G/RELAY FAULT RECTIFIED,GP CABLE RUBBING THROUGH TO EARTH ON'A'END BOGIE,REPAIRED.'.
**24.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - MAIN RESERVOIR TANK (FRONT) REMOVED AND WELDED UNDER INSPECTORS INSTRUCTION.'.
**26.04.1991** Service defect: 'UN - STARTER MOTOR - BOTTOM STARTER MOTOR REPLACED,EX CL 12.'.
**07.05.1991** Service defect: 'A - GENERAL - WINDSCREEN WIPER MOTOR REPLACED.'.
**07.05.1991** Service defect: 'A - TRACTION MOTOR - NO3 T/M TOP COVER REPLACED.'.
**07.05.1991** Service defect: 'A - VIGILANCE - VIG REPAIRED.'.
**07.05.1991** Service defect: 'A - 'B'END PACKAGE TO MONITOR.TOP RINGS WORN ON 6'.
**07.05.1991** Service defect: 'A - PISTONS.WINDSCREEN TO BE REPLACED OBS/SIDE.'.
**08.05.1991** Service defect: 'UN - AUXILLARY MACHINES - COMPRESSOR GOVENOR REPAIRED,A/C LOOSE.'.
**19.08.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - BRUSH REPLACED IN BRUSH/HOLDER,HAMMER RE-LOCATED. - (BRUSH HANGING & HITTING FRAME)'.
**19.08.1991** Service defect: 'UN - D/SIDE MIRROR TO FIT. (NIL STOCK O.H.C. 19/8)'.
**21.08.1991** Service defect: 'A - FUEL SYSTEM - FUEL SIGHT GLASS REPLACED ON OBS SIDE.'.
**21.08.1991** Service defect: 'A - GENERAL - D/SIDE MIRROR REPLACED.'.
**10.09.1991** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - NO.1 RAD/FAN REPLACED.'.
**04.10.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - TRAIN/LINE FAULT - WIRING IN FRONT JUNCTION BOX CLEANED/UP.'.
**22.10.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR BANK O/SIDE REPLACED,A/C LEAKING.'.
**22.10.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - N0 14 CYLINDER HEAD ELBOW REPLACED,A/C WATER LEAK.'.
**17.12.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED.'.
**17.12.1991** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - CLAMP FOR SPEEDO CABLE FIXED.'.
**17.12.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - REPLACED 6 BRUSHES NO 1 T/MOTOR,A/C SHORT.'.
**18.12.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - CABLE ON NO2 INTERPOLE WIRING BREAKING DOWN TO FRAME.CABLE REINSULATED & MOTOR CLEANED,A/C GR'S.'.
**03.01.1992** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - L3 SAND VALVE REPLACED.'.
**03.01.1992** Service defect: 'TS - TRACTION MOTOR - NO.3 T/M REPLACED.'.
**08.02.1992** Service defect: 'TS - TRACTION MOTOR - MAIN CABLE IN NO 1 T/MOTOR REPAIRED,A/C BLOWN TO FRAME.'.
**04.03.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - L2,3+4.BRAKE CYLINDERS REPLACED.'.
**04.03.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED A/C BURNT CABLES AND PLUG.'.
**29.05.1992** Service defect: 'A - BOGIE - NO 6 LATERAL CLEARANCES CHECKED & ADJUSTED.'.
**29.05.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 6 WHEELSET REPLACED,A/C CROWN WHEEL WORN.'.
**29.05.1992** Service defect: 'UN - TRACTION MOTOR - NO 6 T/MOTOR REPLACED,A/C WORN TEETH ON PINION.T/M OUT,67A- C142.'.
**02.07.1992** Service defect: 'TS - TRACTION MOTOR - NO.6 T/M CHANGED A/C EARTH ON INTERPOLE. T/M IN D78 86L 1 NO 1.-T/M OUT D67B 64D-6.'.
**15.07.1992** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - FIRST GRID ON OBSERVERS SIDE BLOWN.DYN. BRAKE DISCONNECTED.'.
**15.07.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - WIRE REMOVED FROM A2 -BR RELAY.'.
**15.07.1992** Service defect: 'UN - DYN. BRAKE TO REPAIR AS BOOKED.16/7/92.'.
**28.08.1992** Service defect: 'B - COOLING SYSTEM RADIATOR - L.1 AND L2 RADIATORS CHANGED A/C LEAKING.'.
**28.08.1992** Service defect: 'B - DYNAMIC BRAKE - DYNAMIC BRAKE GRID REPLACED. .86 OHMS.'.
**28.08.1992** Service defect: 'B - ELECT - RECEPTACLES/INTER CAR COUPLINGS - NO.1 RADIATOR FAN FEMALE RECEPTACLE REPAIRED.'.
**28.08.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NO.11 CYLINDER HEAD CHANGED A/C CRACKED AROUND ELBOW AREA.'.
**28.08.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL CHANGED A/C WATER LEAK.'.
**28.08.1992** Service defect: 'B - LUBRICATING SYSTEM OIL COOLER - BOTH AFTER COOLERS CHANGED A/C BLOCKED.'.
**28.08.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 BRUSH HOLDERS REPLACED NO.2 T/M.'.
**28.08.1992** Service defect: 'B - TRACTION MOTOR SUSPENSION BEARING - R.4 SUSPENTION BEARING CHANGED A/C SMALL LEAD FLAKES.'.

### CL 7

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**04.07.1989** Service defect: 'SW - OTHER BODY REPAIRS - SPLIT TANK - REPAIRS TO FUEL TANK COMPLETED. - (PLATE WELDED OVER SPLIT D/SIDE FUEL INLET)'.
**05.07.1989** Service defect: 'SW - AIR CONDITIONING - UNIT - AIR/COND UNIT REMOVED & HATCH RE-FITTED.'.
**19.08.1989** Service defect: 'TW - COOLING SYSTEM RADIATOR - O/S REAR RADIATOR CORE HAS SLIGHT LEAK.'.
**19.08.1989** Service defect: 'TW - LUBRICATING SYSTEM - NO 1 GEAR CASE(6BAGS),NO 2,3,4,5(5BAGS),NO 6(4BAGS)'.

**22.08.1989** Service defect: 'B - RADIATOR/PRESSURISING FAN - REPLACED NO 3 RADIATOR FAN,A/C FEMALE PLUG BURNT.'.
**31.08.1989** Service defect: 'UN - BOGIE - LEADING BOGIE CHANGED A/C EXCESS FLANGE WEAR ON NO.3.WHEEL.'.
**06.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED,SUSPECT FAULTY BATTERY.'.
**15.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.
**16.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - VALVE FAULT - AUTO/BRAKE VALVE REPLACED,W.H.B.CHECKED OK.'.
**02.11.1989** Service defect: 'UN - OTHER BODY REPAIRS - PARTITION WALL MODIFICATIONS COMPLETED.'.
**11.11.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 3 BAGS ADDED TO ALL GEAR CASES'.
**14.11.1989** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - BLOWN FUSES WERE REPLACED FOR FANS.'.
**14.11.1989** Service defect: 'TS - RADIATOR/PRESSURISING FAN - PLUG ON PRESSURISING FAN WAS REPAIRED, RADIATOR FAN CHANGED A/C EARTH.'.
**17.11.1989** Service defect: 'UN - ENGINE CRANKSHAFT - MAIN BEARINGS NO,S 2,5,6,9,REMOVED & CHECKED. NO.5 LOWER HALF CHANGED A/C STARTING TO PICK UP. TESTED OK.'.
**28.11.1989** Service defect: 'B - BATTERY MAINTENANCE - DEAD CELLS - NEW SET OF APOLLO BATTERIES INSTALLED.'.
**07.12.1989** Service defect: 'UN - CONTACTOR INTERLOCKS - DROPPING LOAD - A/B INT/LOCK IN P2&P5 PICK/UP CCT.CLEANED/UP - (HIGH RESISTANT IN P2&P5)'.
**07.12.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION - TESTED OK,CONTACTORS & WIRING OK.'.
**10.12.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - ENGINE WOULD NOT CRANK - AGASTAT FOR TURBO/PUMP TIMER REPL'D - (AGASTAT TAKEN FROM CL13)'.
**01.01.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**01.01.1990** Service defect: 'TS - ENGINE - LOW WATER & OIL SHUT/DOWN - NO.2 RADIATOR FAN FUSES REPLACED - FANS & OPERATION CHECKED OK.'.
**07.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - BLOCKS REPLACED & BRAKES ADJUSTED.'.
**16.01.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - OUT ON 'G'GAUGE - NO.1&2 WHEEL SETS CHANGED.(EX.GM36)'.
**16.01.1990** Service defect: 'D - ENGINE TURBOCHARGER/SUPERCHARGER - SCREEN - TURBO SCREEN REPLACED.'.
**16.01.1990** Service defect: 'D - TO BE PROFILED A/C NO.6 FLANGE 8.5 (16/1)'.
**17.01.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - R2 WICK CHANGED.'.
**17.01.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE FAULTY,RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**18.01.1990** Service defect: 'WT - NO. 1,2&3 WHEELS WERE NOT TURNED A/C LAST TURN'.
**18.01.1990** Service defect: 'WT - SIZE. SIZES L/H 8958 R/H 8927'.
**18.01.1990** Service defect: 'WT - THE HAND BRAKE IS NOT WORKING.'.
**19.01.1990** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC - BK-BG SWITCH REPLACED,DYNAMIC CHECKED OK.'.
**19.01.1990** Service defect: 'UN - NO FAULT FOUND - HAND/BRAKE - OPERATION CHECKED OK.'.
**19.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. WEAR PLATES -REWELDED ON L.3 AXLE/BOX.'.
**25.02.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - HOT ENGINES - NO. 1 RADIATOR FAN FUSES CHANGED A/C BLOWN. AC CIRCUIT MEGGERED OK. FANS TESTED OK.'.
**06.03.1990** Service defect: 'UN - BOGIE - BOGIE CHANGE - BOGIES CHANGED A/C THIN WHEELS.'.
**12.03.1990** Service defect: 'TS - OVERHEATING - HOT ENGINE SHUT/DOWN -'.
**26.03.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**26.03.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK - O/SIDE NO.3 RADIATOR REPLACED.'.
**06.04.1990** Service defect: 'TS - LUBRICATING SYSTEM - SLIGHT FUEL DILUTION - ENG OIL AND FILTERS CHANGED A/C LAB REPORT.'.
**06.04.1990** Service defect: 'TS - NO FAULT FOUND - CRANKCASE SHUTDOWN - ENGINE INSPECTION CHECKED OK. 1 1/2' OF VACUUM IN SUMP. INJECTORS AND FUEL LINES CHECKED OK.'.
**10.04.1990** Service defect: 'TS - OVERHEATING - HOT ENGINE SHUT/DOWN - FAN FUSES REPLACED.(3 NO. BLOWN) (FAILED ON 7SP1) - FANS & FAN WIRING CIRCUIT CHECKED ???'.
**01.05.1990** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - BLOWN FUSES - FUSES REPLACED NO.2 FAN CIRCUIT. - RADIATOR FAN REPLACED A/C AS ABOVE FAULT.'.
**01.05.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOSS OF POWER - SLIP/RING CLEANED/UP.'.
**12.05.1990** Service defect: 'TS - TRACTION MOTOR - BEARING FAILURE - LOCO SENT TO P/BORO FOR REPAIRS.'.
**12.05.1990** Service defect: 'TS - TO BE LIFTED A/C NO.3 T/MOTOR BEARING FAILURE.'.
**15.05.1990** Service defect: 'SW - TRACTION MOTOR SUSPENSION BEARING - BEARING FAILURE - NO.3 T/MOTOR REPLACED.'.
**20.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO3 WICK CHECKED OK.'.
**21.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**10.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**15.06.1990** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - E.T.S.REPLACED. BLOWN FUSES - REPLACED ON NO.3 FAN CIRCUIT.'.
**15.06.1990** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - CRACKED DRAW/BAR - REAR ASSEMBLY REPLACED.'.
**15.06.1990** Service defect: 'A - RADIATOR/PRESSURISING

FAN - FAN PLUG FAULT - NO.3 RAD/FAN PLUG REPAIRED.'.

**27.06.1990** Service defect: 'UN - NO.3&6 T/MOTOR CHANGE/OUT A/C G/RELAYS. (27/6)'.

**27.06.1990** Service defect: 'UN - CHANGE/OUT P/BORO.'.

**28.06.1990** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO.3&6 T/MOTORS CHANGED/OUT.(BREAKING DOWN)'.

**14.07.1990** Service defect: 'UN - DYNAMIC BRAKE - NO.2 D/BRAKE GRID REPLACED A/C BURNT OUT. D/BRAKE FAN REPLACED A/C COMM. BURNT.'.

**25.07.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC SET/UPS - COMPLETED & TRIAL RUN COMPLETED.'.

**25.07.1990** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - GRID BURN/OUT - D/SIDE NO.2 GRID REPLACED.'.

**25.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR FAULT - UNLOADERS CLEANED/UP A/C CLOGGED. - H.P.HEAD REPLACED A/C NOT PUMPING/UP.'.

**25.07.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN FAILURE - NO.2 DYNAMIC FAN CHANGED/OUT.(THREW BLADES)'.

**27.07.1990** Service defect: 'UN - CONTACTOR INTERLOCKS - HUNTING - INT/LOCKS ON ELD CLEANED/UP.'.

**23.08.1990** Service defect: 'UN - ALTERNATOR - ALTERNATOR - REPLACED.(EXCESS KILOMETERS)'.

**23.08.1990** Service defect: 'UN - ENGINE - LOAD/TEST - COMPLETED.'.

**23.08.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR - O/HAULED COMPRESSOR INSTALLED.'.

**26.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 7 BAGS ADDED TO EACG G/CASE.'.

**10.09.1990** Service defect: 'TS - COOLING SYSTEM WATER PUMP - LOSING WATER - L/HAND WATER PUMP REPLACED.'.

**19.09.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**21.09.1990** Service defect: 'UN - BOGIE - - (NO.2 G/CASE REPORTED PIERCED)'.

**21.09.1990** Service defect: 'UN - BOGIE - G/CASE CHECK - ALL GEAR/CASES CHECKED OK. - (HIT SECTION CAR TAKE/OFF AT COCKBURN 2PS1)'.

**25.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(2),4 BAGS REST.'.

**29.09.1990** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORT - 4 NO.FUSES REPL'D NO.2&3 RAD/FAN CIRUIT. - (FUSES BLOWN),FANS MEGGERED OK.'.

**03.10.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR FAN CHECKED OK IN DEPOT A/C FUSES BLOWN.'.

**10.10.1990** Service defect: 'UN - BOGIE - ROUGH RIDING-RESILIENTS CHANGED,RUBBERS CHANGED,STABILIZERS CHANGED TO CORRECT SIDE UP'.

**20.10.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**20.10.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN FAILURE - NO.1 RADIATOR FAN REPLACED. ' ' - PRESSURISING FAN REPLACED.'.

**30.10.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BOTTOM BRUSH/HOLDER NO.2 T/MTR.REPLACED. - (SRING TENSION COLLAPSED)'.

**09.11.1990** Service defect: 'UN - TO PROFILE A/C BOOKING ON ROUGH/RIDING. (9/11)'.

**16.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. WORN BLOCKS - SEVERAL BRK/BLOCKS REPLACED & BRAKE ADJUSTED.'.

**27.12.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 3 G/RELAYS -'.

**07.01.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE - REPAIRED.'.

**11.01.1991** Service defect: 'A - BOGIE - LUBE CHECK - 6 BAGS 2-6,7 BAGS 1'.

**11.01.1991** Service defect: 'A - FUEL SYSTEM - D/SIDE FUEL CUT/OFF VALVE REPAIRED.'.

**12.02.1991** Service defect: 'UN - BOGIE - TWO SHOCKERS CHANGED 'B'BOGIE'.

**12.02.1991** Service defect: 'UN - COOLING SYSTEM WATER PUMP - RIGHT HAND WATER PUMP CHANGED'.

**12.02.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAKING FROM RHS WATER PUMP'.

**14.02.1991** Service defect: 'UN - BOGIE - BROKEN BRAKE STRAP - O/SIDE NO.4 INNER STRAP REPLACED.'.

**14.02.1991** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - 2 NO.FUSES REPLACED ON NO.1 FAN CIRCUIT. - FANS MEGGERED OK,ALL OTHER FUSES OK.'.

**18.02.1991** Service defect: 'TS - OVERHEATING - 4 NO.FUSES BLOWN. - FUSES REPL'D NO.2&3 FAN CIRCUIT. (2 NO.REPLACED) - (CHANGED BY DRIVER ON TRN.NO.3PS1)'.

**18.02.1991** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORTED - FUSES REPLACED NO.3 RAD/FAN CIRCUIT. - RAD/FAN MEGGERED & METERED OK IN DEPOT'.

**19.02.1991** Service defect: 'E - BOGIE - LUBRICANT CHECK - 7 BAGS(4),8 BAGS(1,2,3,5&6)'.

**19.02.1991** Service defect: 'E - ENGINE TURBOCHARGER/SUPERCHARGER - HIGH READING - O/SIDE AFT/COOLER CHANGED/OUT.'.

**26.02.1991** Service defect: 'TS - ENGINE WATER LEAK - REPLACED 2 WATER RADIATORS ON R.H.S.A/C WATER LEAKS.TESTED OK.'.

**13.03.1991** Service defect: 'UN - LUBRICATING SYSTEM - DRESSER COUPLING ON OIL PIPE FROM OIL COOLER TO OIL STRAINERREPOSITIONED A/C SLIPPED AND RETIGHTENED'.

**18.04.1991** Service defect: 'UN - GENERAL - HOT PLATE REPAIRED.'.

**24.04.1991** Service defect: 'A - BOGIE - O/SIDE REAR SHOCK ABSORBER REPLACED A/C BROKEN'.

**24.04.1991** Service defect: 'A - TO W.T.M. A/C L2 SHARP FLANGE.'.

**24.04.1991** Service defect: 'A - TURBO TO CHANGE A/C OILY STACK AND SLOW RUN DOWN'.

**24.04.1991** Service defect: 'A - TIME.'.

**24.04.1991** Service defect: 'A - L.H. SIDE SIGHTGLASS TO RENEW GASKET.'.

**03.05.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 2 T/M BRUSHES REPLACED,A/C HAMMERS NOT SECURE BRUSHES WORKEDLOOSE.'.

**10.05.1991** Service defect: 'UN - BOGIE - 2 RUBBERS

REPLACED ON 'B'END D/SIDE SHOCK ABSORBER.'.
**10.05.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED,TESTED OK.IN 75-J1-1039 OUT 75-J1-1096.'.
**04.06.1991** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMP FAILURE - FUEL PUMP MOTOR REPLACED.'.
**15.07.1991** Service defect: 'B - LUBRICATING SYSTEM - CHANGED MARLIN COUPLING, A/C OIL LEAK.'.
**15.07.1991** Service defect: 'B - INSULATION CRACKED ON WIRE,TOP STARTER MOTOR.15/7.'.
**14.08.1991** Service defect: 'UN - BOGIE - RIGHT SIDE NO 1 SLACK ADJUSTER CHANGED, A/C BROKEN & SEIZED.'.
**27.08.1991** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - PROTECTION UNIT REPLACED A/C LEAKING.'.
**30.09.1991** Service defect: 'TS - RADIATOR/PRESSURISING FAN - NO.1 RADIATOR FAN & NO.3 FAN POSITIONS SWAPPED.'.
**29.11.1991** Service defect: 'C - BOGIE - 'B'END BOGIE SHOCK ABSORBER RUBBERS REPLACED.L1,L3,L5,L6 & R5 AXLE BOX WEARPLATES REWELDED.'.
**29.11.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R5 & L5 WICKS REPLACED, OIL CHANGED.'.
**29.11.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - L3&L4 SANDERS REPAIRED.'.
**29.11.1991** Service defect: 'C - REAR D/SIDE RECEPTACLE LOOSE.29/11.'.
**26.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENTANT RELEASE PIPE REPAIRED,A/C LEAKING DUE TO HOLES IN COPPER PIPE.'.
**01.04.1992** Service defect: 'B - BLOCKED FILTERS - ENGINE AIR FILTERS CHANGED.-A/C DIRTY .'.
**01.04.1992** Service defect: 'B - BOGIE - REPLACED AND REPAIRED NO.2 GEARCASE.-R4 AND L3 PEDASTAL LINERS REPLACED.'.
**01.04.1992** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - H/LIGHT RESISTORS REPLACED.'.
**01.04.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO FILTER HEAD GASKET REPLACED A/C OIL LEAK.'.
**01.04.1992** Service defect: 'B - MECHANICAL EQUIPMENT BRAKE VALVE - DISTRIBUTING VALVE REPLACED.'.
**01.04.1992** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - REPLACED'A' END COUPLERS AND YOKE.-WELDED PACKAGE STOPS.'.
**01.04.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - L2 AND L4 SLACK ADJUSTERS CHANGED.A/C SIEZED.'.
**01.04.1992** Service defect: 'B - OTHER BODY REPAIRS - REPAIRED HOLE IN 'B' END OF LOCO.'.
**01.04.1992** Service defect: 'B - RADIATOR/PRESSURISING FAN - A/C FUSES REPLACED AND LUGS ON NO.1 RAD. FAN.-MEGGERED AND CHECK TESTED OK.-RADIATOR COVERS RESECURED.'.
**01.04.1992** Service defect: 'B - TRACTION MOTOR - T/M BRUSH HOLDERS REPLACED ON NO.3 & 6 T/MS.BOTH BOTTOM..'.
**29.04.1992** Service defect: 'TS - TRACTION MOTOR EARTH - NO. 6 TRACTION MOTOR CHANGED.'.
**19.05.1992** Service defect: 'TS - DYNAMIC BRAKE - DYN/BRAKE REPAIRS COMPLETED,CABLE CONNECTIONS TO GRIDS RE- LUGGED & SOME CABLES REPLACED,A/C BURNT CABLES IN ENGINE'.
**17.06.1992** Service defect: 'A - BROKEN PIPE - R.4.SAND AIR PIPE REPLACED.'.
**17.06.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - GAUGE LIGHTS &STEP LIGHT REPLACED.HEATER ELEMENT REPLACED.'.
**17.06.1992** Service defect: 'A - GENERAL - BOTH MIRRORS REPLACED.'.
**25.08.1992** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - FRONT OBS. SIDE JUMPER RECEPTACLE REPAIRED A/C DAMAGED WHEN LOCOS PARTED. TRAIN LINE TESTED OK.'.
**25.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS MIRROR REPLACED.'.
**25.08.1992** Service defect: 'UN - VIGILANCE - 3 WAY SOLENOID VALVE REPLACED A/C BLOWING AIR.'.
**04.09.1992** Service defect: 'FA - TRACTION MOTOR FLASHOVER - 2 BRUSH HOLDERS REPLACED IN NO.4 T/M BECAUSE SHORT BRUSHES CAUSING FLASH-OVER AND MELTING BRUSH HOLDERS.'.
**11.09.1992** Service defect: 'D - RADIATORS & 'A'END PACKAGE TO MONITOR.14/9.'.

**CL 8**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**21.07.1989** Service defect: 'UN - CONTACTOR WELDED - NO POWER AFTER TRANSITION - S2-5 CONTACTOR REPLACED. - TRANSITION TESTED OK.'.
**24.08.1989** Service defect: 'TS - CONTACTOR MISCELLANEOUS - RVR4 CONTACTOR MELTED AT PIVOT.FUSE BLOWN IN AR10. RVR4 & B56 CONTACTORS REPLACED.INTERLOCK WIRING REPAIRED'.
**24.08.1989** Service defect: 'TS - LUBRICATING SYSTEM OIL COOLER - OIL COOLER REPLACED A/C SPLIT.'.
**24.08.1989** Service defect: 'TS - MAIN GENERATOR - NEGATIVE AND POSITIVE BASE DIODES REPLACED IN RH SIDE OF ALTERNATOR & FUSE.HT MEGGERED 2 OHMS.T/MOTORS CHECKED OK.'.
**30.08.1989** Service defect: 'UN - DYNAMIC BRAKE - MELTED DYN BRAKE CONNECTIONS O/SIDE. CABLES RE-INSULATED ANDRELUGGED.DBR & BWR SETUPS CHECKED OK.'.
**03.09.1989** Service defect: 'TW - BOGIE - LUBE CHECK - 5 BAGS CRATER ADDED TO EACH GEAR CASE.'.
**19.09.1989** Service defect: 'B - ENGINE LINER - BROKEN STUD - NO.7 LINER REPLACED.'.
**19.09.1989** Service defect: 'B - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED. - PARTITION WALL INSTALLED.'.
**10.10.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.5 T/MOTOR REPLACED.(INT/POLE EARTH)'.
**18.11.1989** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - D/SIDE AFTER COOLER REPLACED A/C LEAKING.'.
**18.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - 4BAGS CRATER ADDED TO ALL GEAR CASES.'.
**06.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C

EX WTM.'.

**07.12.1989** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW SMASHED - D/SIDE CAB WINDOW REPLACED. - SHATTERED WHEN CLOSING.'.

**15.01.1990** Service defect: 'TS - ALTERNATOR - ALT STATOR WINDINGS BURNT - ALTERNATOR REPLACED.'.

**15.01.1990** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TIGHT ROT ASSY - TURBO REPLACED A/C SUSPECTED CARBON BUILD UP IN SEALS.'.

**06.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - BRAKES ADJUSTED.'.

**07.02.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - FAULTY VALVE - AUTO/BRAKE VALVE REPLACED.'.

**07.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.6 WHEEL CHANGED OUT A/C FLAT WHEELS,REPLACED WITH NO.6 WHEEL & MOTOR EX CL-7.'.

**23.03.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS(1,3,5&6),7 BAGS(2&4).'.

**23.03.1990** Service defect: 'A - ELECT. MISC. - GAUGES & INSTRUMENTS - FAULTY METER - PULL/METER REPLACED,CHECKED OK.'.

**18.04.1990** Service defect: 'UN - BOGIE - CRACKED G/CASE - NO.6 G/CASE RE-WELDED.'.

**03.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**13.05.1990** Service defect: 'C - ENGINE LINER - BROKEN STUDS - NO.7&15 LINERS REPLACED.'.

**14.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**26.06.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(2,3,4&5),5 BAGS(1&6).'.

**22.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**31.07.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(1,3,5&6),5 BAGS(2&4).'.

**18.08.1990** Service defect: 'UN - BOGIE - GEAR/CASES SPLIT - NO.4&5 GEAR/CASES REPLACED. LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**24.08.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - ALTN.,T/MOTORS,CONTACTORS & CABLES CHECKED OK. - TRANSITION TESTED OK,MEGGERED .25 M/OHMNS.'.

**31.08.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**12.09.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1&6 T/MOTORS CLEANED/UP.(FLASHED) - NO.3 T/MOTOR TO REPLACE.(EARTH FAULT)'.

**12.09.1990** Service defect: 'TS - NO.3 T/MOTOR TO REPLACE.(EARTH FAULT) (12/9)'.

**13.09.1990** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.3 T/MOTOR REPLACED.(ARMATURE TO EARTH'.

**15.09.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.

**15.09.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.3 WICK CHECKED OK.'.

**15.09.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - EXCESSIVE AMPS - L.I.A.S SHUNT REPLACED.'.

**18.09.1990** Service defect: 'UN - BODY REPAIRS - ACCIDENT - - PT.GERMEIN & PT.PIRIE.(8KM.CROSSING)'.

**18.09.1990** Service defect: 'UN - BODY REPAIRS - ACCIDENT - * COLLISION * SPEEDO CHART REMOVED,IND/BRK HOSE TO REPLACE. TRN.NO.3170 - INCIDENT NO.PE20. COLLIDED WITH CAR BETWEEN'.

**18.09.1990** Service defect: 'UN - IND/BRAKE PIPE TO REPLACE A/C COLLISION WITH CAR.'.

**18.09.1990** Service defect: 'UN - (18/9)'.

**11.10.1990** Service defect: 'UN - ALTERNATOR - LUG ON MAIN ALTERNATOR FIELD COIL LOOSE-CHECKED+REPAIRED'.

**15.10.1990** Service defect: 'UN - FUEL SYSTEM - FUEL BY-PASSING,FUEL FILTERS CHANGED'.

**26.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**06.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - UNIT REPLACED ON HOUSING.(SET/SCREWS FELL/OUT'.

**14.11.1990** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - BLOWN FIELD FUSE - CR17 REPLACED,CHECKED OK. (ALTERNATOR) - (LOCO FAILED,TRAIN NO.4166)'.

**14.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**15.01.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR GOVERNOR CLEANED.'.

**24.01.1991** Service defect: 'B - ELECTRICAL MISC. GROUND RELAY - G/RELAY DYN-BRK, SLIGHT FLASHING # 4 T/MOTOR - CLEANED UP OKTEST RUN IN YARD, O.K.'.

**24.01.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - # 1 RADIATOR FAN - 2 MALE/1 FEMALE PLUG PINS CHANGED A/C HIGH RESISTANCE.'.

**26.01.1991** Service defect: 'UN - BOGIE - NO. 6 GEARCASE REWELDED'.

**04.02.1991** Service defect: 'UN - ALTERNATOR - D14 RECTIFIER U/S - CR17 RECTIFIER REPLACED.(SHORTED)'.

**06.02.1991** Service defect: 'UN - ALTERNATOR - NO ALTN OUT/PUT - STUD REPLACED ON D14 CONNECTION. - (STUD BURNT OFF)'.

**12.03.1991** Service defect: 'UN - TO PUG FOR 1 BATT CHANGE A/C NO LIFTING EQUIPMENT'.

**12.03.1991** Service defect: 'UN - MPC.'.

**13.03.1991** Service defect: 'SW - BATTERY MAINTENANCE - BLOWN BATTERY - 1 NO.STARTING BATTERY REPLACED. (EX.M.P.C) - VOLTAGE REGULATOR REPLACED & ADJUSTED 72V.'.

**24.05.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - DIRTY WICK - R5 WICK AND OIL CHANGED.'.

**24.05.1991** Service defect: 'C - ELECTRICAL MISCELLANEOUS - L.T. EARTH - CR17 DIODE WIRE TO GROUND. WIRE REPAIRED AND TESTED OK.'.

**26.07.1991** Service defect: 'A - CONTACTOR MISCELLANEOUS - CONTACTOR B56 REPLACED, A/C OVERHEATED.CABLE TO B56 RELUGGED'.

**02.08.1991** Service defect: 'UN - FUEL SYSTEM - ALL FUEL PIPES CLEANED, A/C FUEL IN BYPASS.'.

**02.08.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTORS CHANGED, A/C FUEL IN BYPASS.'.

**02.08.1991** Service defect: 'UN - MECHANICAL

MAINTENANCE - AIR BRAKE - AUTOMATIC PORTION CHANGED, A/C BRAKES LEAKING ON.'.

**28.08.1991** Service defect: 'UN - DYNAMIC BRAKE - BWR CHECKED TO 355V.BWA RELAY REPLACED.BLOWER MOTOR REPLACEDBLOWER MOTOR CABLE REPLACED BLOWER MOTOR TAP GRID REPLACED'.

**28.08.1991** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - DYN/BRAKE REGULATOR CHECKED 309V.'.

**11.09.1991** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPLACED,EX GM 19,A/C FAULTY.'.

**22.09.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - R1A & B RESISTORS CHANGED, A/C OPEN CIRCUITED.'.

**03.12.1991** Service defect: 'A - NO 5 MAIN BEARING SHOWING SIGNS OF WEAR.03/12.'.

**31.12.1991** Service defect: 'TS - ENGINE CYLINDER HEADS - NO.8 HEAD CHANGED.'.

**31.12.1991** Service defect: 'TS - ENGINE LINER - NO.8 LINER REPLACED.'.

**31.12.1991** Service defect: 'TS - ENGINE PISTON - NO.8 PISTON REPLACED. A/C CRANKCASE EXPLOSION.'.

**31.12.1991** Service defect: 'TS - VALVE BRIDGE/LASH ADJUSTER - NO.8 VALVE BRIDGES CHANGED.'.

**04.09.1992** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH REPAIRED. SHORTED WIRES IN CONDUIT TO COUPLING LIGHTS..'.

**04.09.1992** Service defect: 'TS - OTHER BODY REPAIRS - ROOF LEAK REPAIRED.'.

**04.09.1992** Service defect: 'TS - RADIO REPAIR - RADIO REPAIRED. POSITIVE FEED WIRE FOUND BROKEN. POSITIVE AND NEGATIVE WIRES SHORTED IN CONTROL STAND.'.

**04.09.1992** Service defect: 'TS - TRACTION MOTOR - NO.1 T/M CHANGED A/C LOW MAIN FEILD RESISTANCE.'.

**23.09.1992** Service defect: 'A - BOGIE - NO'1&5 GAER CASES TIGHTENED.'.

**23.09.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L5WICK OIL AND WICK CHANGED.'.

**23.09.1992** Service defect: 'A - COOLING SYSTEM - ENGINE COOLING WATER CHANGED.'.

**23.09.1992** Service defect: 'A - ENGINE - ENGINE RETORQUED.'.

**23.09.1992** Service defect: 'A - GENERAL - D/SIDE ENGINE ROOM DOOR REPAIRED.'.

**23.09.1992** Service defect: 'A - LUBRICATING SYSTEM - OIL PUMP CHANGED,A/C COIL WIRE TO BRUSH HOLDER SHORTED TO FRAME.'.

**23.09.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - L.P. COMP HEAD BOLT REPLACED. COMPRESSOR COOLANT LEAK REPAIRED.'.

**23.09.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R3 SANDER TRAP AND PIPE REPLACED.'.

**19.11.1992** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - NO 3 RAD FAN FUSES REPLACED, A/C BLOWN & FAN WIRE RELUGGED A/C BLOWN OFF. RAD FAN MEGGERED OK. FANS TESTED OK IN DIRECT'.

**19.11.1992** Service defect: 'TS - RADIATOR/PRESSURISING FAN - RAD FAN CONTACTOR FUSE MOUNTING BLOCK REPLACED, A/C BROKEN.'.

**23.12.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R3,R4,L4 & R5 WICKS CHANGED.'.

**23.12.1992** Service defect: 'B - RADIATOR/PRESSURISING FAN - NO 3 FAN HOUSING REPAIRED. NO 2 FAN CONTACTOR CHECKED OK. RADIATOR FANS DIRECTION TESTED OK.'.

**31.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE REPLACED, A/C U/S.'.

**31.12.1992** Service defect: 'UN - STARTER MOTOR - BOTTOM STARTER MOTOR SOLENOID REPLACED, LOCO TESTED OK.'.

**17.03.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - ECONOMY RESISTOR ON B6 REPLACED,A/C OPEN CIRCUIT.'.

**17.03.1993** Service defect: 'TS - ENGINE AIR FILTERS - ENGINE AIR INTAKE FILTERS CHANGED.'.

**17.03.1993** Service defect: 'TS - ENGINE WATER LEAK - Y PIECE GASKET REPLACED.'.

**17.03.1993** Service defect: 'TS - GENERAL - D/SIDE MIRROR REPLACED.'.

**17.03.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE REPLACED,A/C AIR LEAK.'.

**11.06.1993** Service defect: 'C - FUEL FILTERS - FUEL FILTER LEAKS REPAIRED.'.

**11.06.1993** Service defect: 'C - TRACTION MOTOR - NO 1 T/MOTOR SUPPORT BEARING REPLACED. TOP BRUSHES (6) CONNECTED,COVER REPLACED,A/C FOUND LEFT OFF.'.

**11.06.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - NO 4 T/M BRUSH HOLDER CHANGED ON NO 1 T/M.'.

**25.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L3 SAND PIPE BRACKET FITTED,EX AL 21.'.

**21.07.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - LOSING POWER & NO DYN/BRAKE - EK1 WIRE LUG REPLACED. DYN WORKED.SPEEDO REPLACED. LOCO OK ON TRIAL RUN,SHOWED NO'.

**28.07.1993** Service defect: 'SW - BOGIE - 'A'END BOGIE SWAP WITH AL 25 COMPLETED.'.

**28.07.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPLACED, EX GM 44, A/C U/S.'.

**28.07.1993** Service defect: 'SW - OTHER BODY REPAIRS - DRIVERS SIDE STEP REPAIRED & FITTED.'.

**21.08.1993** Service defect: 'TW - BOGIE - L1 SLACK ADJUSTER REPLACED A/C SIEZED.'.

### CL 9

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**27.08.1989** Service defect: 'UN - CONTACTOR INTERLOCKS - PRR & RTL INTERLOCKS CLEANED & CHECKED OK,A/C NO POWER.'.

**27.08.1989** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR REPLACED A/C SHUTTING DOWN,LOCO WOULD NOT INCREASE REVS,A/C BROKEN SPEED SPRING.'.

**31.08.1989** Service defect: 'TW - BOGIE - LUBE CHECK - 4 BAGS CRATER IN EACH GEAR CASE.'.

**15.09.1989** Service defect: 'TS - ENGINE PISTON - CRACKED PISTONS - NO.7&12 ASSEMBLIES CHANGED EXCEPT CON/RODS - (LINERS CHANGED A/C RIDGES)'.
**15.09.1989** Service defect: 'TS - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.
**19.09.1989** Service defect: 'B - BOGIE - GEAR CHECK - NO.2 T/MOTOR AXLE GEAR CHECKED OK FOR WEAR.'.
**19.09.1989** Service defect: 'B - BOGIE - LUBRICANT CHECK - 10 BAGS(1&2),9 BAGS(3),5 BAGS(4&5) - 4 BAGS(6)'.
**29.09.1989** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - BROKEN SPRINGS - L.2&R.2 AXLE/BOX SPRINGS REPLACED.'.
**29.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - MODIFICATION - PARTITION WALL INSTALLATION COMPLETED.'.
**15.10.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(1,2&3),7 BAGS(4,5,&6).'.
**23.10.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.
**13.11.1989** Service defect: 'D - LUBRICATING SYSTEM - L1 WICK CHECKED,L2 WICK OIL REPLACED.'.
**05.12.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY,CHECKED OK.'.
**05.12.1989** Service defect: 'UN - ENGINE - NO14 TEST COCK RESEATED.'.
**05.12.1989** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO 14 INJECTOR LINKAGE PIN REPLACED.'.
**09.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**20.12.1989** Service defect: 'TS - GENERAL LOSS OF POWER - LOSS OF POWER - E-D INTERLOCKS ON OVR DIRTY - CLEANED.'.
**02.01.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**02.01.1990** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - CLOGGED AFT/COOLERS - BOTH AFT/COOLERS REPLACED. (HIGH READINGS) - R/H 13',L/H OFF THE GAUGE.'.
**04.02.1990** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - ELBOW ON AIR PIPE TO R/H NO.3 BRK/CYL REPLACED'.
**09.02.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS(3-6),6 BAGS(1&2).'.
**09.02.1990** Service defect: 'B - TO BE RE-ROSTERED FOR WHEEL CHANGE.(NO.2 9 FLANGE'.
**14.02.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SHARP FLANGE - N02 WHEEL CHANGED A/C 9+.'.
**16.02.1990** Service defect: 'WT - MILE END BRAKB ADJ'.
**17.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&3 CRATER),4 BAGS(4,5&6 TMGL)'.
**21.02.1990** Service defect: 'UN - RADIO REPAIR - SPEAKER MISSING - O/SIDE RADIO SPEAKER REPLACED.'.
**02.03.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE - ETS ADJUSTED A/C 6 C TOO LOW. RADIATORS, FANS, FUSES ETC CHECKED OK. ENG LOAD TESTED OK.'.
**14.03.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**14.03.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE SHUT/DOWN - ????'.
**23.03.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS(2),6 BAGS(1,3&5),7 BAGS(4&6).'.
**23.03.1990** Service defect: 'TS - BATTERY MAINTENANCE - FLAT BATTERIES - 3 NO.STARTING BATTERIES REPLACED. (DEAD CELLS)'.
**23.03.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - NO POWER - GEN/FIELD SWITCH REVERSED.'.
**03.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&3),6 BAGS(4&6).'.
**03.04.1990** Service defect: 'UN - NO FAULT FOUND - LOST POWER - LOCO CHECKED IN DEPOT,NOT FAULTED.'.
**13.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. SHOCK/ABSORBERS - CHECKED OK.'.
**19.04.1990** Service defect: 'SW - COOLING SYSTEM RADIATOR - USING EXCESS WATER - O/SIDE NO.2 RADIATOR CHANGED/OUT.'.
**04.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**25.05.1990** Service defect: 'C - CONTACTOR WELDED - WELDED CONTACTOR - M4-5 CONTACTOR REPLACED.'.
**30.05.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT - CLEARED.'.
**10.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**02.10.1990** Service defect: 'F - ALTERNATOR - ALTERNATOR O/HAULED. AUX GENERATOR O/HAULED. RADIATOR FANS DYNAMIC BRAKE FANS AND PRESSURISING FANS O/HAULED. ALL'.
**02.10.1990** Service defect: 'F - BOGIE - O/HAULED BOGIES FITTED.'.
**02.10.1990** Service defect: 'F - COOLING SYSTEM RADIATOR - RECONDITIONED RADIATORS FITTED. OIL COOLER O/HAULED. THERMOSTATS CHECKED AND ADJUSTED.'.
**02.10.1990** Service defect: 'F - ELECTRICAL MISCELLANEOUS - CONTACTORS O/HAULED. DYNAMIC BRAKE MOD COMPLETED. INSTALLINGOF H.T. AND L.T. CABLING DONE. DAY/NIGHT VIGILANCE MOD FIT.'.
**02.10.1990** Service defect: 'F - ENGINE - BEARINGS CAPS MACHINED. TOP DECK SEAT RING NOT MACHINED. LASH ADJUSTERS RECONDITIONED. SAME HARMONIC BALANCER GEAR'.
**02.10.1990** Service defect: 'F - ENGINE - ENG SERIAL NO.70-C1-1085 EX CL04 FITTED.ENG UPGRADED TO E3B.2 NEW CAMSHAFTS AND 2 SECOND HAND FITTED. RECOND CYL HEADS'.
**02.10.1990** Service defect: 'F - ENGINE - PISTONS MACHINED 1/32' O.W. RING GAP. CHROME LINERS FITTED. KORODY COLLIER INJECTORS FITTED. OIL PUMPS O/HAULED. MAIN'.
**02.10.1990** Service defect: 'F - ENGINE - TYPE FITTED. ENG LOAD TESTED TO 3030 H.P.'.
**02.10.1990** Service defect: 'F - GENERAL - DRAUGHT GEAR AND COUPLERS REPLACED BOTH ENDS.'.
**02.10.1990** Service defect: 'F - GENERAL - JUMPER CABLE MOD FITTED. CAB DOORS, ELECT CAB DOORS ETC FITTED WITH NEW SEALS. CAB AND INTERIOR PAINTED.'.
**09.10.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR DIFFERRENTIAL ADJUSTED'.
**09.10.1990** Service defect: 'UN - MECHANICAL

MAINTENANCE - AIR BRAKE - BROKEN UNLOADER PIPE REPLACED'.

**17.10.1990** Service defect: 'UN - DYNAMIC BRAKE - NO.2 DYNAMIC BRAKE FAN REPLACED A/C FLASHOVER DUE TO LOW BRUSH TENSION.'.

**27.10.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 2+&1- DIODE & 8 FUSES REPLACED.(RH BANK)(BLOWN DIODES) - LOAD/TEST,TRANSITION & TEST RUN OK.'.

**27.10.1990** Service defect: 'TS - TRACTION MOTOR - - T/MOTORS CHECKED OK.'.

**01.11.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - * CAPACITORS REPLACED A/C MELTING SOLDER CASING *'.

**01.11.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 5+&5- BASE DIODES & 5 FUSES REPLACED. DIODE BANK FLASHED - 2 NO.SUPPRESSION CAPACITORS REPLACED.'.

**01.11.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORTED - LOAD/TEST COMPLETED. - THERMOSTATS & FAN CIRCUIT CHECKED OK.'.

**07.11.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - - DIODE BANK REPLACED. - LOAD/TEST COMPLETED,NO FURTHER G/RELAYS.'.

**07.11.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - DIODE BANK REMOVED,CLEANED/UP REAR ALTN. - CARBON REMOVED FROM SUPPRESION CIRCUIT.'.

**08.11.1990** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC REPORTED - O.C.P.RE-SET,DYNAMIC OPERATION OK.'.

**09.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**15.11.1990** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - WEAR PLATES - NEW BOLSTER WEAR PLATES FITTED.('A'BOGIE)'.

**21.11.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1&4 T/MTRS CLEANED/UP.(SLIGHT FLASH) - OVR FITTED & SET/UP.'.

**28.11.1990** Service defect: 'A - ENGINE LINER - SPLIT LINER - NO.11 LINER & HEAD REPLACED. - (SAME PISTON USED)'.

**07.12.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - REVERSER PROBLEM - JUMPER/CABLE UN-PLUGGED FROM RECEPTACLE. - (CABLE IN BOTH REAR RECEPTACLE SOCKETS)'.

**07.12.1990** Service defect: 'UN - NO FAULT FOUND - BRAKES CUT/OUT - CHECKED IN DEPOT,NO FAULT DETECTED.'.

**18.12.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - NO.2 THERMOSTAT PLUG REPLACED.'.

**26.12.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - NO POWER & NO DYNAMIC - M12 CONTACTOR INT/LOCK BOBIN REPL'D.'.

**12.01.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - TRAC/MOTORS 1,2 & 4 CLEANED & PAINTED, T/MOTOR #5 WASHED OUT'.

**19.01.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS - NO1&4 TRAC/MOTORS CLEANED & PAINTED.'.

**22.01.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - GROUND RELAYS- NO 4 T/MOTOR CLEANED A/C FLASHOVER'.

**29.01.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS # 1 & 4 T/MOTORS CLEANED & PAINTED TRANSITION WITH MG SET O.K.'.

**25.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO5 WHEEL CHANGED. A/C DRAGGING WHEEL.'.

**26.02.1991** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.5 WICK CHECKED OK.'.

**26.02.1991** Service defect: 'SW - RE-ROSTER FOR MMBRK REPAIRS. (26/2)'.

**02.04.1991** Service defect: 'FA - TRACTION MOTOR FLASHOVER - NO4 T/M FLASHED - CLEANED UP & REINSULATED,NO5 T/M,OIL CLEANED OUT.'.

**05.04.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.4 T/MOTOR REPLACED.(BREAKING DOWN) TRN.NO.4AP5'.

**12.04.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1&4 T/MOTORS CLEANED/UP.(FLASHED) (FAILED TRN.NO.2347)-'.

**12.04.1991** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - TRANSITION SET/UP -'.

**18.04.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1 T/MTR REPLACED.'.

**18.04.1991** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP - S25 CONTACTOR REPAIRED.'.

**16.05.1991** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - FUSES REPAIRED ON MAIN ALT DIODE BANK,A/C BLOWN.'.

**16.05.1991** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - 'B'END DRAFT PACKAGE & COUPLER CHANGED.'.

**16.05.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - R6 SANDER CHANGED.'.

**04.06.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - M12 CONTACTOR CHANGED,A/C CHATTERING.'.

**06.06.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE TESTED IN DEPOT,NO FAULT EVIDENT.'.

**06.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES PIPE REPLACED.'.

**18.06.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**18.06.1991** Service defect: 'TW - DYNAMIC BRAKE - DYANMIC FAULT - OCP RE/SET A/C TRIPPED.'.

**11.07.1991** Service defect: 'A - TRACTION MOTOR - NO 5 T/MOTOR WASHED, A/C FULL OF OIL.'.

**11.07.1991** Service defect: 'A - B T/STAT - PLUG NEEDS TO BE CHANGED.NIL STOCK MPC.'.

**11.07.1991** Service defect: 'A - 11/7.'.

**03.10.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO PLUG REPLACED.'.

**03.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP. GOVERNOR REPLACED.'.

**03.10.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.5 T/M REPLACED A/C GROUNDS &BURNT FF CABLE.'.

**03.10.1991** Service defect: 'UN - VIGILANCE - VIGILANCE PILOT VALVE REPLACED.'.

**16.10.1991** Service defect: 'TS - TRACTION MOTOR

FLASHOVER - NO'S 1 & 4 T/MOTORS FLASHED,MOTOR CLEANED & BRUSHES REPLACEDP= 5M OHMS.'.

**27.11.1991** Service defect: 'B - ENGINE - NO 10 POWER ASSEMBLY CHANGED.'.

**27.11.1991** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPLACED,A/C NOT OPERATING CORRECTLY.'.

**27.11.1991** Service defect: 'B - BRUSH HOLDER TO CHANGE TOP NO 6 T/M,NIL STOCK MPC.'.

**27.11.1991** Service defect: 'B - BRUSHES TO CHANGE.27/11.'.

**02.01.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK FROM BARREL UNION ON MICHIANA TANK DRAIN REPAIRED.'.

**02.01.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK ON PIPE ABOVE FUEL TANK OBSERVERS SIDE REPAIRED.'.

**02.01.1992** Service defect: 'UN - TRACTION MOTOR - NO.5 T/M WASHED OUT.A/C FULL OF OIL.'.

**02.01.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.4 T/M CHECKED & REPAIRED.'.

**06.02.1992** Service defect: 'A - GENERAL - BOTH REAR VIEW MIRRORS REPLACED.'.

**06.02.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - REPLACED TOP BRUSH HOLDER NO 3 T/M,A/C FLASHED.REPLACED NO6 T/MOTOR TOP BRUSH HOLDER,A/C EXCESSIVE MOVEMENT IN HAMMER'.

**06.02.1992** Service defect: 'TS - TRACTION MOTOR - NO 5 T/MOTOR REPLACED.IN-81E1-1242. OUT-81H1-1091.'.

**26.02.1992** Service defect: 'TS - FUEL SYSTEM INJECTORS - NO4 INJECTOR FITTED.'.

**26.02.1992** Service defect: 'TS - TRACTION MOTOR BURNTOUT - NO5 TRACTION MOTOR REPLACED.'.

**10.03.1992** Service defect: 'UN - DYNAMIC BRAKE - BRAKE PROGRAMMING SWITCH WASENT COMPLETELY BACK IN POSITION 1.LOOSE CONECTION ON MICRO SWITCH.D/BRAKE REPAIRED OK.'.

**02.04.1992** Service defect: 'TS - BLOCKED FILTERS - TURBO INTAKE FILTERS CHANGED A/C EXTREMELY DIRTY.'.

**02.04.1992** Service defect: 'TS - TRACTION MOTOR - BRUSH HOLDER IN NO.6 T/M REPLACED.'.

**03.04.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - P2 CONTACTOR CHANGED A/C BLOWN CONTACT TIPS.'.

**03.04.1992** Service defect: 'TS - ELECTRICAL MISC. MODULES - R19 B CHANGED A/C OPEN CIRCUIT.'.

**03.04.1992** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - TRANSITION CHECKED OK.'.

**03.04.1992** Service defect: 'TS - MAIN GENERATOR - FUSE CHANGED IN MAIN ALTERNATOR.'.

**15.04.1992** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L2,L6 & R2 WICKS CHANGED.'.

**15.04.1992** Service defect: 'D - ELECTRICAL MISC - FUSES/HOLDERS - FUSE IN MAIN ALT REPLACED.'.

**15.04.1992** Service defect: 'D - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV CHECKED OK,A/C FAULTY.'.

**15.04.1992** Service defect: 'D - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED.'.

**26.05.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 3 WHEELSET REPLACED,A/C CONDEMNED FLANGE.LOCO MOVEMENT TESTED IN POWER & D/BRAKE.'.

**24.06.1992** Service defect: 'TS - WHEELSLIP - WHEEL SLIP RELAY CHANGED A/C COIL U/S.-SENT FOR TRIAL RUN TRIAL RUN OK.'.

**25.06.1992** Service defect: 'A - DYNAMIC BRAKE SETTING - DYN. BRAKE EXTENDED RANGE REPAIR A/C 72 VOLT FEED FROM LIGHT CIRCUIT.'.

**25.06.1992** Service defect: 'A - ELECTRICAL MISC. AC/DC RELAYS - P.S.R. RELAY REPLACED A/C HIGH RESISTANCE CONTACTS. W/SLIP 3/6 RELAY REPLACED A/C LOW RESISTANCE.63 OHMSSHOULD'.

**25.06.1992** Service defect: 'A - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.A/C U/S.'.

**25.06.1992** Service defect: 'A - ENGINE CYLINDER HEADS - NO. 11 HEAD NUTS CHANGED A/C WRONG TYPE FITTED. ONE BOLT REPLACED ON NO.16 JUMPER LINE.A/C MISSING.'.

**25.06.1992** Service defect: 'A - MECHANICAL EQUIPMENT - ENGINE OIL PRESSURE GAUGE CHANGED.'.

**25.06.1992** Service defect: 'A - TRACTION MOTOR - NO.1 AND NO.2 T/MS TO MONITOR A/C POSSIBLE FLATS. NO.5 T/M FULL OF OIL.'.

**25.06.1992** Service defect: 'A - TRACTION MOTOR - REPLACED BOTTOM BRUSH HOLDER ON NO.6 T/M.A/C BURNT.-NO.6 T/MTO MONITOR A/C BURNT COMM.V-RING & COMM.CLEANED..'.

**25.06.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 20 T/M BRUSHES CHANGED.'.

**03.08.1992** Service defect: 'TS - TRACTION MOTOR - NO.6 T/M REPLACED A/C PINION U/S.'.

**03.08.1992** Service defect: 'TS - TRACTION MOTOR SUSPENSION BEARING - NEW SUPPORT BEARING FITTED.'.

**18.08.1992** Service defect: 'UN - NO FAULT FOUND - COMPRESSOR CHECKED FOR OIL LEAK. LOCO RUN FOR TWO HOURS AND NO LEAK EVIDENT.'.

**10.09.1992** Service defect: 'UN - ENGINE - NEW RINGS FITTED TO NO. 15 PISTON.'.

**10.09.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO. 15 CYLINDER HEAD REPLACED A/C CRACKED.'.

**10.09.1992** Service defect: 'UN - ENGINE LINER - NO. 15 LINER CHANGED A/C BROKEN STUD.'.

**18.09.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L2 AND R2 WICKS AND OIL CHANGED.'.

**18.09.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL PRESSURE GAUGE CHANGED A/C BROKEN.'.

**18.09.1992** Service defect: 'B - TRACTION MOTOR - NO.5 T/M CLEANED A/C EXTREMELY OILY.'.

**18.09.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - TOP BRUSH HOLDER CHANGED IN NO.2 T/M A/C FLASH OVER.'.

**22.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VOLAGE TRIMER REPLACED A/C BURNT'.

**16.10.1992** Service defect: 'UN - GENERAL - OBS/SIDE WINDOW REPLACED, A/C BROKEN.'.

**03.12.1992** Service defect: 'A - LUBRICATING SYSTEM - MARMON COUPLING RUBBERS ON SNAKE PIPE FROM OIL SCAVENGING PUMP & ALSO OIL STRAINER REPLACED, A/C SUSPECT.'.

**03.12.1992** Service defect: 'A - TRACTION MOTOR - NO 5 T/MOTOR WASHED, A/C OILY.'.

**CL 10**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**04.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - DEAD CELLS - FULL SET NEW BATTERIES INSTALLED.'.

**04.07.1989** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - RELAY FAULTY - P.S.R.CHANGED.(NOT OPERATING CORRECTLY) - (MAIN CAUSE OF POWER LOSS)'.

**04.07.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - POWER FLUCTUATING - O.V.R.SET/UP & RESISTORS CHANGED. LOW POWER 7&8.'.

**04.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - * LOCO LOAD/TEST COMPLETED. 3020 H/POWER *'.

**17.07.1989** Service defect: 'TS - LUBRICATING SYSTEM - LOW COMPRESSIONS - NOS2,3,6,8&10 POWER ASSY'S REPLACED.'.

**24.07.1989** Service defect: 'UN - NO FAULT FOUND - POWER SURGING - LOCO TEST RUN COMPLETED,NOT FAULTED. SHUT/DOWNS - LOCO WORKED STEEL TRAIN 3260 FOM WHYALLA.'.

**11.08.1989** Service defect: 'UN - ENGINE WATER LEAK - SPLIT LINER - NO8 POWER ASSY REPLACED.'.

**11.08.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL AND FILTERS CHANGED A/C WATER CONTAMINATION.'.

**15.08.1989** Service defect: 'E - ENGINE - OIL FILTERS, FUEL INJECTORS AND LASH ADJUSTERS WERE NOT CHANGED A/C HAVE ONLY BEEN RECENTLY CHANGED AND ADJUSTED.'.

**16.08.1989** Service defect: 'UN - GENERAL - DRIVERS STEP REPAIRED.'.

**16.08.1989** Service defect: 'UN - GENERAL ACCIDENT - M/RES,T/PIPE,2 CONTROL HOSES 'A'END REPLACED.B/CYL PIPE & COCK 'A'END RENEWED.L2 SAND AIR PIPE RENEWED.'.

**25.08.1989** Service defect: 'UN - DYNAMIC BRAKE - BL-BC MICRO SWITCH REPLACED A/C NO LR.VOLTS IN DYNAMIC BRAKELR.VOLTS OK,GRIDS OK,CONTACTORS OK.'.

**25.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - WHB.TESTS OK,A/C COLLISION IN ADELAIDE .'.

**05.09.1989** Service defect: 'UN - BOGIE - LUBE CHECK - 1,2,3.(2BAGS),4,5,6.(6BAGS) OF CRATER ADDED TO GEAR CASES.'.

**05.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LIGHT WIRING REPAIRED A/C FAULTY'.

**05.09.1989** Service defect: 'UN - RADIATOR/PRESSURISING FAN - CONDUTE & WIRING REPAIRED ON RAD FAN HATCH A/C BROKEN CONDUTE.'.

**14.09.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - NO POWER IN REVERSE - BOBBIN ON RVR.4 REPLACED.(BROKEN) - LOCO TESTED FOR POWER OK.'.

**15.09.1989** Service defect: 'A - OTHER BODY REPAIRS - FLITER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.

**21.09.1989** Service defect: 'TS - NO FAULT FOUND - LOSS OF POWER - LOCO WORKED 4166 WITH/OUT ANY PROBLEM.(20/9) UNKNOWN. - LOCO 'S'CHECKED IN DEPOT,RELEASED TO TRAFFIC'.

**09.10.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**09.10.1989** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - BLOCKED SANDERS - SANDERS CLEARED & OPERATION TESTED OK.'.

**04.12.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.

**21.12.1989** Service defect: 'UN - EXHAUST - GASKETS - ALL EXHAUST GASKETS REPLACED.(LEAKING) - ALL STUD HOLES RE-TAPPED.'.

**21.12.1989** Service defect: 'UN - OTHER BODY REPAIRS - MODIFICATION - PARTITION MOD COMPLETED.'.

**24.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**24.12.1989** Service defect: 'TW - BROKEN PIPE - BROKEN PIPE - COPPER PIPE TO OIL/COOLER REPLACED.'.

**05.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**17.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE REPAIR - WHISTLE PIPE REPAIRED.'.

**23.01.1990** Service defect: 'WT - REMOVED 30MM. FROM NO 1 WHEEL.35MM FROM NO.2.'.

**23.01.1990** Service defect: 'WT - REMOVED 31MM. FROM NO 3 36MM.FROM NO 4'.

**23.01.1990** Service defect: 'WT - 47MM.FROM NO 5 32MM FROM NO 6.'.

**23.01.1990** Service defect: 'WT - SEND TO MILE END BRAKE ADJUST'.

**25.01.1990** Service defect: 'TW - BOGIE - BOGIE LUBE - 5 BAGS ADDED TO EACH GEAR CASE.'.

**25.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**05.02.1990** Service defect: 'UN - BOGIE - BEARING FAILURE - NO.5 T/MOTOR REPLACED.(SUPPORT FAILURE)'.

**22.02.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - HEAD/LIGHT SWITCH REPLACED.'.

**21.03.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS(1,3&4),7 BAGS(2,5&6).'.

**21.03.1990** Service defect: 'A - EXHAUST - BLOWN GASKET - EXPANSION GASKET REPLACED.(FRONT)'.

**03.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(4,5&6),6 BAGS(1,2&3). BRAKE ADJUSTMENT - COMPLETED.'.

**07.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COULD NOT COUPLE UP - 'B'END THROAT PLATE REPLACED.'.

**22.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS(1&3),6 BAGS(5&6),7 BAGS(4),8 BAGS(2 - SLIGHT WEAR NO.2 DRIVE GEAR.'.

**02.05.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,4&6),5 BAGS(3&5).'.

**20.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS(4,5&6),6 BAGS(1,2&3).'.

**20.05.1990** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - LOCO NOT STARTING - 33 WIRE ON 70 BOARD REPAIRED.'.

**02.07.1990** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE ROOM WINDOW REPLACED.'.

**07.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - NOS. 4,5 & 6, THREE BAGS ADDED. NOS. 1 & 3, SIX BAGS

ADDED. TEN BAGS ADDED TO NO. 2.'.

**07.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE AND RECORDER REPLACED.'.

**10.07.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT RESISTOR ADJUSTED A/C HEADLIGHT DIM.LOWER H/LIGHT REPLACED A/C BLOWN.'.

**30.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FLUCTUATING - UNIT CHANGED/OUT.'.

**30.07.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIRS - LOCKING BAR REPLACED D/SIDE WINDOW. MIRROE CRACKED - D/SIDE MIRROR REPLACED.'.

**02.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - THIN WHEELS - O/HAULED BOGIES INSTALLED.'.

**10.08.1990** Service defect: 'D - AUXILLARY MACHINES - SHEARED BOLT - AUXG MOUNTING BOLT REPLACED.'.

**10.08.1990** Service defect: 'D - ENGINE TURBOCHARGER/SUPERCHARGER - SCRAPING NOISE ON RUN/DOWN - TURBO REPLACED.'.

**19.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**19.08.1990** Service defect: 'TW - BROKEN PIPE - CRACKED FLARE - LOAD REGULATOR OIL PIPE RE-FLARED.'.

**11.09.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.(8/9)'.

**11.09.1990** Service defect: 'TS - CONTACTOR WELDED - WELDED CONTACTOR - P.4 CONTACTOR REPLACED.'.

**26.09.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**26.09.1990** Service defect: 'UN - NO FAULT FOUND - LOW OIL SHUT/DOWN - LOCO LOAD/TESTED,NOT FAULTED. - OIL READINGS TAKEN.'.

**14.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**11.02.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(3,5&6),5 BAGS(4),6 BAGS(1&2).'.

**26.02.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. WORN BLOCKS - FULL SET BRAKE/BLOCKS FITTED,BRAKES ADJUSTED.'.

**14.03.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 15 BRUSHES CHANGED OUT OF 1,2, & 3 TM'S,A/C HANGING PIGTAILSALT CHECKED,OK LOCO MEGGERED OK.'.

**16.04.1991** Service defect: 'C - BOGIE - R5 & R6 GEAR CASE SHIMMED & TIGHGTENED.'.

**16.04.1991** Service defect: 'C - RADIATOR/PRESSURISING FAN - RAD FAN COVER SECURED.RAD FAN REPLACED.'.

**16.04.1991** Service defect: 'C - TRACTION MOTOR SUSPENSION BEARING - R6 SUSPENSION BEARING CHANGED.'.

**06.05.1991** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE WINDOW REPLACED.'.

**28.02.1992** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - REAR JUMPER CABLE REPLACED OK.'.

**24.04.1992** Service defect: 'TS - ENGINE - ALL CYL. HEAD NUTS CHANGED & TORQUED UP.'.

**24.04.1992** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO.1 TRACTION MOTOR CLEANED UP.'.

**27.04.1992** Service defect: 'UN - TRACTION MOTOR - TEMPORY TRACTION MOTOR COVERS FITTED TO NO 1 & 3 TRACTION MOTORS AND BOLTS TIGHTENED OR FITTED WHERE MISSING TO NO 4,5'.

**27.04.1992** Service defect: 'UN - REPLACE TEMPORY TRACTION MOTOR COVERS FITTED TO NO'.

**27.04.1992** Service defect: 'UN - 1 & 3 TRACTION MOTORS'.

**08.05.1992** Service defect: 'A - ENGINE CYLINDER HEADS - NO 6 HEAD CHANGED,A/C NO 6 WATER ELBOW ON HEAD SUSPECT,WATERFOUND IN L.H.S. JACKING HOLE.'.

**08.05.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MAGNET VALVE REPLACED,A/C LOCO BRAKE NOT APPLYING WITH AUTO MATIC REDUCTION.'.

**02.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES CHECKED OK,(CONTROL PORTION 26D REPLACED).'.

**24.06.1992** Service defect: 'TS - COOLING SYSTEM RADIATOR - OBSERVERS SIDE NO.1 RADIATOR REPLACED.-A.C LEAKING.'.

**24.06.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - REAR ELECTRICAL CABINET CLEANED OF WATER.A/C RADIATOR LEAK. ELECT. CAB. CHECKED OK.'.

**28.07.1992** Service defect: 'B - TRACTION MOTOR - BRUSH HOLDER NO.1 T/M CHANGED.'.

**03.08.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - S36 CONTACTOR CHANGED.A/C LOST POWER.'.

**13.10.1992** Service defect: 'A - TRACTION MOTOR - BRUSH HOLDERS CHANGED IN NO 2 & NO 6 T/MOTORS,NO 5 T/M CLEANED UP.'.

**17.11.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GR'S - NO3 T/MOTOR 'F'CABLE REPAIRED & INSULATED, A/C RUBBEDTHROUGH.'.

**17.11.1992** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 6 T/MOTOR CLEANED, A/C FLASHOVER.'.

**22.01.1993** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - NO.6 W/SET HAS 3 INCH FLAT. L3 FLANGE 25#. SENT TO WTM.'.

**17.03.1993** Service defect: 'TS - DYNAMIC BRAKE SETTING - EXTENDED RANGE DYNAMIC SET UP COMPLETED, LOCO OK ON TRIAL RUN.'.

**17.03.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY OPERATION CHECKED OK.'.

**17.03.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - R3 RESISTOR BANK AT REAR OF CABINET REPLACED. GDL REPLACED.'.

**17.03.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - TOP BRUSH HOLDER NO 1 T/MOTOR REPLACED.'.

**17.04.1993** Service defect: 'A - COOLING SYSTEM RADIATOR - BLOCKED RADIATORS - RADIATORS STEAM CLEANED. ENG COOLING WATER CHANGED A/C LAB REPORT'.

**10.05.1993** Service defect: 'UN - TRACTION MOTOR - NO.6 T/M CHANGED A/C DOWN TO EARTH.'.

**11.06.1993** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - WELDED COVER OVER DAMAGE TO O/S FRONT RECEPTACLE (BLANKED OFF),NOT AVAILABLE FOR FURTHER USE.'.

**11.06.1993** Service defect: 'UN - ENGINE TEST (ELECT.) - MAIN/GEN + ENGINE MOUNTS CHECKED,DOWEL BOLTS RETIGHTENED.'.

**02.07.1993** Service defect: 'B - EXHAUST - EXHAUST GASKET CHANGED,A/C LEAK FROM LARGE JOINT.'.
**09.07.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - V- RING & INSULATORS CLEANED ON NO 1 T/MOTOR,A/C FLASHOVER BETWEEN BACK OF BOTTOM 2 BRUSH HOLDERS. MEGGERED POWER-2OHMS'.
**23.08.1993** Service defect: 'UN - CONTACTOR WELDED - P4 CONTACTOR REPLACED A/C WELDED IN.'.

**CL 11**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**21.07.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - OIL LEAK - TURBO REMOVED NEW GASKETS FITTED & TURBO REPLACED'.
**28.07.1989** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC - BR4&BB5 CABLES REVERSED IN HATCH. - DYNAMIC OPERATION TESTED OK.'.
**05.08.1989** Service defect: 'UN - ENGINE - LEAKING TEST COCK - NO4 TEST COCK REPLACED.'.
**06.09.1989** Service defect: 'A - ENGINE - SEALS ON WATER MANIFOLD & BUSHES REPLACED A/C LEAKING.'.
**11.09.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT'.
**12.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED EX WTM.'.
**18.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.
**26.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(3&4),4 BAGS(6),5 BAGS(1&2). - 8 BAGS(5).NO.5 GEAR/TEETH SHINY,CHECKED OK'.
**26.09.1989** Service defect: 'TW - OTHER BODY REPAIRS - DOOR REPAIRS - HINGES & DOOR SEALS REPLACED.'.
**07.10.1989** Service defect: 'UN - NO FAULT FOUND - LACK OF POWER - LOCO CHECKED IN DEPOT,NOT FAULTED.'.
**17.10.1989** Service defect: 'UN - ALTERNATOR - ALTERNATOR BRUSHES FREED A/C STUCK.'.
**22.10.1989** Service defect: 'TW - ENGINE - NO.5 & 7 TEST COCKS REPAIRED A/C LEAKING.'.
**22.10.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 1,4,6.(4 BAGS TMGL),2,3,5.(3 BAGS TMGL) ADDED TO GEAR CASES.'.
**30.10.1989** Service defect: 'C - BOGIE - BRAKES TAKEN UP A HOLE.'.
**20.11.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 3BAGS ADDED TO NO.1 GEAR CASE,4BAGS ADDED TO NO2 GEAR CASE.'.
**13.12.1989** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - NO A.C.- V/REGULATOR REPLACED. - AUX/GEN.FLASHED TO RE-ESTABLISH REDIDUAL.CHECKED OK'.
**20.12.1989** Service defect: 'TS - AUXILLARY MACHINES - AUX/GEN.FAILURE - UNIT REPLACED. H.R.JOINT - AUX/GEN.FIELD FUSE HOLDER REPLACED.'.
**03.01.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. CAP MISSING - NO.5 G/CASE CAP REPLACED.'.
**03.01.1990** Service defect: 'TS - DRIVER FAULT - ALL MOTORS FLASHED - NO.4 T/MOTOR REPLACED.(SPUN PINION) - OTHER T/MOTORS CLEANED/UP.'.
**22.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FAULTY VALVE - INDEPENDANT BRAKE VALVE REPLACED.'.
**13.02.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - SELECTA TEST WIRING COMPLETED.'.
**17.02.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO REVERSE - RVR 6 ECONOMY RESISTOR REPAIRED.'.
**05.03.1990** Service defect: 'WT - BRAKE ADJUST MILE BND'.
**06.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRAVELS ADJUSTED A/C WTM.'.
**13.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT -'.
**24.04.1990** Service defect: 'UN - FUEL SYSTEM - HARMON FUEL TESTS - COMPLETED.'.
**30.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HARMON FUEL TESTS - COMPLETED.'.
**07.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**03.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**06.06.1990** Service defect: 'D - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**14.06.1990** Service defect: 'UN - BOGIE - THIN WHEELS - O/HAULED BOGIES INSTALLED.('A'BOGIE CL123) ('B'BOGIE CL116)'.
**20.07.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**20.07.1990** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO - DRIVE & CABLE CHECKED.'.
**10.08.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - TEMPORY REPAIRS TO SANDING VALVE PIPE NEAR COMPRESSOR.'.
**14.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**05.09.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(5&6),5 BAGS(1-4).'.
**10.09.1990** Service defect: 'UN - BOGIE - DERAILMENT CHECK - BOGIES,G/CASES ETC CHECKED OK.'.
**24.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - SMASHED WINDOW - D/SIDE WINDOW REPLACED.'.
**29.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**19.10.1990** Service defect: 'A - NO FAULT FOUND - WATER LEAK - NO LEAK EVIDENT.(TAPS ON WATER TANK TURNED OFF)'.
**17.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**22.11.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 4 BAGS(3,4&5),5 BAGS(2&6),8 BAGS(1).'.
**22.11.1990** Service defect: 'C - RADIATOR/PRESSURISING FAN - FAN OPEN/CIRCUITED - NO.1 RADIATOR FAN REPLACED.'.
**22.12.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORTED - TC THERMOSTAT PLUG RE-LOCATED.'.

**11.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED'.
**11.03.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BURNT WIRE - NEGATIVE WIRES REPAIRED ON TERMINAL BOARD 100. (NO POWER)'.
**25.03.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - NO POWER TO GM40 - FO WIRE ON 100 BOARD RE-POSITIONED.'.
**02.04.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - BRAKE ADJUSTMENT COMPLETED.'.
**09.04.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOAD/TEST - COMPLETED.'.
**09.04.1991** Service defect: 'UN - ENGINE - LOW POWER - BOTH AFT/COOLERS REPLACED A/C HIGH READINGS. - TURBO SCREEN CHECKED,RACKS & INJECTORS OK.'.
**18.04.1991** Service defect: 'B - COOLING SYSTEM RADIATOR - D/SIDE NO1 RADIATOR CHANGED A/C LEAKING.'.
**17.06.1991** Service defect: 'A - ENGINE WATER LEAK - RHS WATER PUMP CHANGED,A/C LEAKING.'.
**17.06.1991** Service defect: 'A - 'B'END PACKAGE CRACKED,TO MONITOR.18/6.'.
**03.07.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**20.08.1991** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - OBS/SIDE FRONT RECEPTACLE REPAIRED.'.
**20.08.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - RECTIFIER REPAIRED & REPLACED,FRONT LEFT PANEL, A/C BURNT OUT.'.
**20.08.1991** Service defect: 'UN - GENERAL - D/SIDE MIRROR REPLACED.'.
**20.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE COCK REPLACED A END, A/C LEAKING.'.
**20.08.1991** Service defect: 'UN - OBS/SIDE MIRROR TO REPLACE,NIL STOCK MPC.20/8.'.
**28.08.1991** Service defect: 'B - ALTERNATOR - 2 ALTERNATOR BRUSHES REPLACED.'.
**28.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - D/SIDE MARKER LIGHT REPLACED, A/C BROKEN.'.
**28.08.1991** Service defect: 'B - RADIATOR/PRESSURISING FAN - REPLACED FUSE CARTRIDGES TO NO 1 FAN MOTOR.METERED MOTOR & CHECKED OK.'.
**28.08.1991** Service defect: 'B - TRACTION MOTOR - 18 T/MOTOR BRUSHES REPLACED.'.
**04.09.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY - NO.3 T/MOTOR CLEANED/UP A/C FLASH/OVER. - ALL OTHER T/MOTORS MEGGERED OK.'.
**27.09.1991** Service defect: 'TS - CONTACTOR INTERLOCKS - DROPPING LOAD -'.
**01.10.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - DROPPING LOAD - SENSOR REPLACED A/C FAULTY. - (SENSOR TAKEN FROM CL16)'.
**01.10.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - FUEL RACKS - ADJUSTED A/C LOW ON 700 H/POWER.'.
**09.10.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK CHECKED. O/K FOR TRAFFIC. TO BE MONITORED.'.
**09.10.1991** Service defect: 'UN - RADIATOR LEAK TO MONITOR.'.
**11.10.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR CORE REPLACED AND TESTED.'.
**11.10.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO.1 RADIATOR FAN REPLACED.'.
**25.10.1991** Service defect: 'A - ALTERNATOR - FUSE & DIODE CHANGED ALT D/SIDE.'.
**12.11.1991** Service defect: 'UN - TRACTION MOTOR - ARMATURE FLASHED - NO.3 T/MTR CLEANED/UP A/C AS ABOVE.'.
**12.11.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - BRUSH/HOLDER - BRUSH HOLDER HAMMERS REPOSITIONED.(LEFT UP) - (BRUSH/HOLDER AT 9'OCLOCK)'.
**12.11.1991** Service defect: 'UN - WHEELSLIP - CONTINUOUS WHEEL/SLIP - BRUSH/HOLDER REPLACED.(BLOWN APART) (MMBAD) - (ARMATURE END HOLDER AT 3 O'CLOCK)'.
**31.12.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - HOT LUG REPLACED ON B56. IDAC CHECKED OK.'.
**31.12.1991** Service defect: 'TS - TRACTION MOTOR BRUSHES - 18 T/M BRUSHES CHANGED A/C EITHER TOO SHORT OR BROKEN.'.
**10.01.1992** Service defect: 'E - ELECTRICAL MISC. AC/DC RELAYS - BTR RELAY REPLACED. A/C SHORT BETWEEN HT/LT COILS.'.
**10.01.1992** Service defect: 'E - ELECTRICAL MISCELLANEOUS - LUG REPLACED ON DBI.-SILICON SEALED 20 BOARD IN NOSE.'.
**10.01.1992** Service defect: 'E - STARTER MOTOR - STARTER MOTOR BRAID REPLACED.'.
**10.01.1992** Service defect: 'E - TRACTION MOTOR BRUSHES - 15 BRUSHES CHANGED.9IN NO.2.-6 IN NO. 4.'.
**25.02.1992** Service defect: 'A - GENERAL - OBS/SIDE MIRROR REPLACED.'.
**25.02.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - SIEZED SLACK ADJUSTER ON R3 REPLACED. NO10 TEST COCK REPLACED.'.
**25.02.1992** Service defect: 'A - L1 A/BOX BOLT TO REPLACE.'.
**25.02.1992** Service defect: 'A - ALTERNATOR SLIP RING BRUSHES REQ'D.'.
**15.05.1992** Service defect: 'B - BOGIE - NO 1 & 5 NOSE SUSPENSION WEARPLATES REWELDED.'.
**15.05.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1 & L2 WICKS REPLACED.'.
**05.06.1992** Service defect: 'UN - TRACTION MOTOR - NO 1'.
**05.06.1992** Service defect: 'UN - NO 1 TRACTION MOTOR GEARS TO CHECK OUT A/C'.
**05.06.1992** Service defect: 'UN - CLUNGING NOISE COMING FROM IT WHEN IN POWER'.
**02.07.1992** Service defect: 'UN - BATTERY MAINTENANCE - LOCO HAD FLAT BATTERIES./JUMP STARTED.'.
**02.07.1992** Service defect: 'UN - BOGIE - NOS.2&3 GEAR CASES REPLACED AND LUBED.'.
**02.07.1992** Service defect: 'UN - TRACTION MOTOR - NO.1 T/M-WHEEL SET CHANGED.'.
**14.08.1992** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - NO.3 WHEELSET REPLACED.'.
**14.08.1992** Service defect: 'A - ENGINE CYLINDER HEADS - NO.14 HEAD CHANGED.'.
**14.08.1992** Service defect: 'A - STARTER MOTOR - STARTER MOTOR REPLACED A/C OVER-HEATED. CHANGED WITH CL5.'.

**14.08.1992** Service defect: 'A - TRACTION MOTOR - NO.2 T/M REPLACED. T/M OUT D77-67D-C165. T/M IN D77B-71E1-1222. CHANGED A/C LOOSE PACKING BAR ON'.
**14.08.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - NOS.4 & 5 BRUSH HOLDERS REPLACED A/C SPRINGS LOOSE.'.
**28.08.1992** Service defect: 'SW - GENERAL - DRIVERS SEAT REPLACED.'.
**28.08.1992** Service defect: 'SW - NO FAULT FOUND - AXLE DRIVE GEARS CHECKED OK. CRATER LEVELS CHECKED OK. REPORTED AS NOISY PINION.'.
**08.09.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - CL11 EXPERIENCED CONTINUAL G/R'S. BOTTOM BRUSH HOLDER ON NO.2 T/M REPLACED.'.

**CL 12**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**04.07.1989** Service defect: 'WT - BRAKE ADJUST MILE END'.
**15.09.1989** Service defect: 'A - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.
**22.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 'B'END SAND VALVE FAULTY.NIL STOCK.RETURNED TO PT AUGUSTA FOR REPAIRS..'.
**22.09.1989** Service defect: 'UN - 'B'END SANDING VALVE TO REPLACE.'.
**06.10.1989** Service defect: 'UN - AUXILLARY MACHINES - NO OUT/PUT FROM AUX/GEN.- UNIT FLASHED TO REGAIN RESIDUAL.'.
**06.10.1989** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - BLOWN SOCKET - JUMP/START SOCKET REPLACED.'.
**18.10.1989** Service defect: 'TS - AUXILLARY MACHINES - NO OUT/PUT - AUX/GENERATOR REPLACED.'.
**29.10.1989** Service defect: 'UN - FUEL SYSTEM - SPIN ON FILTERS CHANGED A/C SEAL MISSING.'.
**29.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - 1 & 2,(4BAGS),4 & 6,(6BAGS) OF CRATER ADDED TO GEAR CASES.'.
**08.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT - L/H AFTERCOOLER CHANGED DUE TO READING OF 12''.'.
**08.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 'B' END SANDING VALVE REPLACED A/C FAULTY.'.
**25.11.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,3,4&5),5 BAGS(6).'.
**25.11.1989** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - FAULTY METER - PULL METER REPLACED.'.
**01.12.1989** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - ?'.
**08.12.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER FAULT - SAND TRAP REPLACED ON R.4 SAND/BOX.'.
**20.12.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.
**31.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1-5),6 BAGS(6).'.
**13.01.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**13.01.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 1 DIODE REPLACED & 5 FUSES REPLACED. - T/MOTORS MEGGERED OK.(5 MEGG/OHMNS)'.
**19.01.1990** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK FROM FILTER & GAUGE REPAIRED.'.
**29.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**03.02.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT - GN71 WIRE REMOVED FROM +TEST/JACK & - REPLACED ON -TEST/JACK.'.
**03.02.1990** Service defect: 'UN - NO FAULT FOUND - LOW POWER - TEST RUN COMPLETED,LOCO CHECKED OK.'.
**16.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(3),OTHERS OK.'.
**09.03.1990** Service defect: 'UN - BOGIE - SIDE SLAP - REPLACED RESILIANT RUBBERS,AND RELOCATED BOLSTERLINER.'.
**09.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC - WIRE MISSING (PC FEED WIRE) ON CONTROLLER,REPLACED WIRE & CHECKED OK.'.
**22.03.1990** Service defect: 'B - EARTH FAULT MISCELLANEOUS - L.T.EARTH - WIRE TO A.C.REPLACED.'.
**27.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**01.04.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - LUBE PUMP NOISY - TURBO LUBE PUMP REPLACED.'.
**25.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHEECK - 4 BAGS ADDED TO EACH G/CASE.'.
**25.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED.'.
**25.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - WATER LEAK - PIPE ON COMPRESSOR REPLACED.'.
**05.05.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - BARREL UNION ON DRAIN/PIPE TIGHTENED.'.
**11.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**23.05.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**17.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1-5),8 BAGS(6).'.
**23.06.1990** Service defect: 'UN - OTHER BODY REPAIRS - H/BRAKE NOT WORKING - CHAIN REPAIRED A/C BROKEN.'.
**04.07.1990** Service defect: 'TW - BOGIE - BOGIE LUBE - 4 BAGS ADDED TO EACH CASE.'.
**12.07.1990** Service defect: 'TS - GENERAL - HAND BRAKE CHAIN REPAIRED A/C BROKEN.'.
**12.07.1990** Service defect: 'TS - NO FAULT FOUND - SHUTTING DOWN - LOAD TESTED, UNABLE TO FAULT.'.
**15.07.1990** Service defect: 'UN - DYNAMIC BRAKE - HIGH AMPERAGE IN DYNAMIC - LOAD METER SHUNT REPLACED A/C CRACKED.'.

**04.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**17.08.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - THIN WHEELS - TO RUN/OUT A/C UNABLE TO PROFILE.'.
**14.09.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L4 WICK CHANGED.ALL WICKS CHANGED.'.
**14.09.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 3 TM FLASHED BADLY,NO REASON FOUND.'.
**15.09.1990** Service defect: 'UN - NO FAULT FOUND - POWER SURGE - LOCO TESTED IN DEPOT,NOT FAULTED.'.
**15.09.1990** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - SUPPORT FAILURE - L.4 SUPPORT BEARING & WICK REPLACED.'.
**03.10.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT - P.2 REPLACED.(COIL SHORTED) 45 KM/H.'.
**27.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**08.11.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.6 T/MOTOR REPLACED.'.
**09.11.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO6 WICKS CHECKED OK.'.
**16.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**03.12.1990** Service defect: 'UN - BOGIE - LUBRICANT ADDED TO GEAR CASE NO 1(6 BAGS) 2,3,4,5,6 (4 BAGS)'.
**16.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**08.01.1991** Service defect: 'E - BOGIE - LUBRICANT CHECK - 4 BAGS(6),5 BAGS(2),6 BAGS(3,4&5),8 BAGS(1'.
**08.01.1991** Service defect: 'E - STARTER/MOTORS TO BE REPLACED A.S.A.P.'.
**08.01.1991** Service defect: 'E - A/C NIL AVAILABLE IN DEPOT. (8/1)'.
**27.01.1991** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK - DRIVERS SIDE RADIATOR VENT PIPE REPLACED.'.
**17.02.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - SENSOR REPLACED.'.
**17.02.1991** Service defect: 'UN - OTHER BODY REPAIRS - DOOR LOCK U/S - D/SIDE DOOR LOCK REPAIRED.'.
**21.02.1991** Service defect: 'A - BOGIE MAINTENANCE - BOLSTERS - WEAR PLATES - NEW BOLSTER WEAR PLATES FITTED.'.
**21.02.1991** Service defect: 'A - STARTER MOTOR - STARTER MOTORS - REPLACED A/C NIL AVAILABLE LAST 'E'SERVICE.'.
**07.03.1991** Service defect: 'TS - TRACTION MOTOR BRUSHES - 60 BRUSHES REPLACED,A/C FRAYED & PULLED PIGTAILS & ALSO SHORT.'.
**07.03.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 1 TM CLEANED,PAINTED,A/C FLASHOVER.'.
**01.05.1991** Service defect: 'TS - BOGIE MAINTENANCE - WICKS - 4 NEW WICKS - NO 1 & 2 WHEELSET.'.
**01.05.1991** Service defect: 'TS - GENERAL - D/SIDE MIRROR REPLACED.'.
**01.05.1991** Service defect: 'TS - STARTER MOTOR - STARTER MOTOR REPLACED,A/C EXISTING ONE REMOVED FOR CL6.'.
**01.05.1991** Service defect: 'TS - TRACTION MOTOR ARMATURE BEARING - NO1 T/MOTOR CHANGED,A/C BADLY DAMAGED ARMATURE + BRUSH HOLDERS.IN 81H1-1/35,OUT 69-L1-1272.'.
**07.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO ROLL REPLACED.'.
**07.05.1991** Service defect: 'UN - DRIVERS MIRROR TO REPLACE.'.
**13.05.1991** Service defect: 'UN - DYNAMIC BRAKE - NO POWER AFTER DYNAMIC - THROTTLE DRUMS LUBRICATED. - DYNAMIC TESTED OK.'.
**15.05.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CONTROLLER REPAIRED.'.
**21.05.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRING FAULT IN ENGINE START SWITCH LOCATED,REPAIRED & CHECKED OK.'.
**21.05.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRE TO CONTROL FUEL PUMP SWITCH RELUGGED,A/C BURNT.'.
**22.06.1991** Service defect: 'TS - BOGIE - SAND HOSE FROM R1 REPLACED.SAND PIPE & BRACKET FROM R3 +HORNSTAY REPLACED.'.
**22.06.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO1 WHEELSET REPLACED,A/C WORN AXLE BOX. AXLE BOXES & GEAR CASES CHECKED OK.'.
**22.06.1991** Service defect: 'TS - 2 LONG JACK HANDLES REMOVED FOR CL 7,TO BE'.
**22.06.1991** Service defect: 'TS - REPLACED.24/6.'.
**25.06.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - COMPLETED,CHECKED OK A/C WHEEL CHANGE.'.
**18.07.1991** Service defect: 'A - CONTACTOR INTERLOCKS - ELD M-L INTERLOCK CONTACTS CLEANED.'.
**01.08.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAILURE - O.C.P. RE/SET,TEST RUN COMPLETED,OK.'.
**14.08.1991** Service defect: 'UN - FUEL SYSTEM PUMP - LOSING POWER - FUEL/PUMP COUPLING RE-LOCATED & TIGHTENED. - LOCO LOAD/TESTED OK.'.
**02.09.1991** Service defect: 'TS - COOLING SYSTEM OVERHEATING - RADITOR VENT PIPE REPAIRED'.
**30.09.1991** Service defect: 'C - ELECTRICAL MISCELLANEOUS - NO.1OBS.SIDE PEDESTAL LINER REPLACED.'.
**30.09.1991** Service defect: 'C - TRACTION MOTOR LOOSE PINION - T/M REMOVED A/C LOOSE PINION,NUT&WASHER.'.
**02.10.1991** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.1 WICK CHECK COMPLETED.'.
**10.10.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - CRANK/CASE OPERATION - PROTECTION UNIT REPLACED.(FAULTY)'.
**24.10.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.4 T/MOTOR CLEANED/UP A/C FLASH/OVER.'.
**06.01.1992** Service defect: 'TS - TRACTION MOTOR - NO.4,5 &6 T/MS GROUND,VEED OUT & PAINTED.'.
**06.01.1992** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO. 6 T/M CLEANED AND PAINTED.-A/C FLASH OVER.'.

**06.03.1992** Service defect: 'B - FUEL SYSTEM - MAIN FILTER BOWL REMOVED AND STEAM CLEANED,A/C OF WATER CONTAMINATION.'.
**02.04.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - 6 BRUSHES CHANGED ON NO.6 T/M.A/CBROKEN BRUSHES AND LOOSE PIG TAILS.'.
**05.05.1992** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BRAKE GMD RESISTORS REPLACED.OK.'.
**05.05.1992** Service defect: 'TS - TRACTION MOTOR - NO3 T/MOTOR REPLACED.OK.'.
**12.05.1992** Service defect: 'UN - GENERAL LOSS OF POWER - AUTO BRAKE PROBLEM - BRAKE TEST COMPLETED OK,NO FAULT FOUND.'.
**01.06.1992** Service defect: 'A - BOGIE - L4 JOURNAL BOX REPLACED,A/C WHITE METAL DETECTED.'.
**01.06.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 8 WICKS CHANGED.'.
**01.06.1992** Service defect: 'A - GENERAL - D/S MIRROR REPLACED.'.
**01.06.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE REPAIRED.'.
**17.07.1992** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - GENERATOR FIELD FUSE REPLACED A/C LOCO HAD REVS BUT NO POWER.'.
**17.07.1992** Service defect: 'TS - OTHER BODY REPAIRS - VENT PIPE REPAIRED A/C WATER LEAKING INTO REAR ELECTRICAL CABINET.'.
**22.08.1992** Service defect: 'D - ELECT. MISC. - GAUGES & INSTRUMENTS - BATTERY AMMETER REPLACED A/C U/S.'.
**22.08.1992** Service defect: 'D - ELECTRICAL MAINTENANCE -WIRING - HOT LUG REPLACED IN A/C CABINET.'.
**22.08.1992** Service defect: 'D - ENGINE CYLINDER HEADS - NO.7 CYLINDER HEAD LEAKING AIR THROUGH HEAD NUTS. REPAIRED.'.
**22.08.1992** Service defect: 'D - TRACTION MOTOR - PIG TAILS PULLED ON NO. 3 T/M. TO MONITOR A/C POSSIBLE FLATS.'.
**26.08.1992** Service defect: 'UN - INSULATION WORN - NOS. 1 AND 4 WHEEL SLIP WIRES RUBBED THROUGH TO FRAME. WIRESTAPED UP.'.
**26.08.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.3 T/M FLASHED . COMMUTATOR BRUSHED OUT - INSULATORS AND V-RING CLEANED. V-RING ALSO PAINTED. A/C EXCESSIVE'.
**06.10.1992** Service defect: 'TS - ENGINE WATER LEAK - VENT PIPE D/SIDE REPLACED, A/C CRACKED PIPE CAUSING WATER LEAK. LOCO TESTED OK.'.
**24.10.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - BRUSH HOLDERS ADJUSTED IN NO 4 T/MOTOR, 1 BRUSH HOLDER ADJUSTED IN NO 5 T/M. BRUSHES REPLACEDIN NO 4 & 5 T/MOTORS.'.
**05.11.1992** Service defect: 'UN - GENERAL - HAULED TO PT AUG. GEAR TO BE STRIPPED THEN TO M & K.'.

**CL 13**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**09.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**09.07.1989** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - FUSE TEST NOT WORKING - BN27 WIRE REPAIRED ON C/BREAKER. (BROKEN WIRE)'.
**24.07.1989** Service defect: 'SW - ENGINE - AIR/BOX DRAINS - CHECKED OK.'.
**24.07.1989** Service defect: 'SW - NO FAULT FOUND - SWITCH SUSPECT - BCP SWITCH OPERATION CHECKED OK. - (LIGHT WOULD NOT GO OUT)'.
**26.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHECKED.'.
**26.07.1989** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR HUNTING IN NOTCH 7.CHECKED OK IN DEPOT.'.
**26.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY TO BE REPAIRED AT PT AUGUSTA.'.
**27.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - CABLE REPLACED & CHECKED OK.'.
**03.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**14.08.1989** Service defect: 'TW - BOGIE - BOGIE LUBE - CRATER ADDED, 1(2BAGS) 2(2BAGS) 3(4BAGS) 4(2BAGS) 5(5BAGS) 6(NIL).'.
**14.08.1989** Service defect: 'TW - NO FAULT FOUND - NO POWER - NO FAULT FOUND.'.
**20.08.1989** Service defect: 'UN - WHEELSLIP - GN CABLE REPAIRED A/C WHEELSLIP.'.
**29.08.1989** Service defect: 'UN - WHEELSLIP - RESISTORS,T/MOTORS & CONTACTORS CHECKED OK,A/C WHEELSLIP PROBLEMS.LOCO TO HAVE TEST RUN.'.
**11.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**21.12.1989** Service defect: 'TS - GENERAL - - NEW HATCH/SPLICE INSTALLED A/C BURNT. - ALL CONTACTORS IN HATCH REPLACED.(O/H UNITS)'.
**21.12.1989** Service defect: 'TS - GENERAL - * FULL ELECTRICAL SET/UPS COMPLETED & TEST/RUN COMPLETE *'.
**21.12.1989** Service defect: 'TS - GENERAL - FIRE DAMAGE - DYN.BRK H/T.CABLES REPLACED IN HATCH. - DYN.BRK L/T.CABLES REPLACED IN HATCH.'.
**02.01.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - NO.1 FAN FUSES REPLACED.(FUSES BLOWN)'.
**12.01.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - WIRING TO 70 BOARD REPAIRED.(2&5 W/SLIP CIRCUIT) SUSPECT MOTOR ??? - NO.5 T/MOTOR CHANGED.'.
**12.01.1990** Service defect: 'TS - WHEELSLIP - WHEEL/SLIP IN DYN.-'.
**18.01.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE FAULTY.RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**23.01.1990** Service defect: 'UN - DYNAMIC BRAKE - SENSOR FAULTY - SENSOR REPLACED. - (NOT RESPONDING TO THROTTLE POSITIONS)'.
**27.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.
**01.02.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT - CONNECTOR STRIP REPLACED.(MELTED)'.
**01.02.1990** Service defect: 'UN - NO FAULT FOUND - DYNAMIC BRAKE - OPERATION CHECKED,NOT FAULTED. FAULT.'.

**05.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTOR NOT MAKING - RVF2 CONTACTOR REPLACED.'.
**09.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - RVF2 STICKING - CONTACTOR REPLACED.'.
**18.02.1990** Service defect: 'UN - AUXILLARY MACHINES - BROKEN MOUNTING FRAME - AUX/GEN.FRAME REWELDED. - AUX/GEN.REPLACED.SERIAL NO.8849-A51.'.
**18.02.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - AUX/GEN.FUSE BLOWN - VOLTAGE REGULATOR REPLACED.'.
**22.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - TIGHTENED CONNECTIONS ON ECONOMY RESISTOR. - OPERATION CHECKED OK.'.
**23.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS(2,3,4,5&6),12 BAGS(1). GEAR CHECK - NO.1 GEAR CHECKED OK A/C DRY.'.
**05.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**05.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HARMON FUEL TESTING COMPLETEED.'.
**07.04.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - NO POWER - CONTROLLER REPLACED.(CONTROLLER SPRINGS BROKEN) - (SPRINGS CAUSED CONTROLLER TO JAM)'.
**15.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(2,3,5&6),8 BAGS(1&4).'.
**19.04.1990** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN VIBRATION - NO.1 RADIATOR FAN CHANGED/OUT.'.
**27.04.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 3 BAGS(3),4 BAGS(2,4,5&6),5 BAGS(1).'.
**30.05.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**30.05.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.2&4 T/MOTOR ARMATURES CLEANED/UP.'.
**30.05.1990** Service defect: 'UN - ENGINE - POWER ASSSEMBLY CHANGE/OUT - COMPLETED. OIL/COOLER & MAIN LUBE PUMP - REPLACED.'.
**07.06.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - - NO.4 T/MOTOR CABLE INSULATED.(RED FIBRE)'.
**07.06.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 1 NO.FUSE REPLACED IN AR10,DIODES OK. - FLASHING ON NO.1&4 T/MOTORS CLEANED/UP.'.
**16.06.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**16.06.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - T/MOTORS & ALTN CHECKED,MEG..05 M/OHMS.'.
**23.06.1990** Service defect: 'UN - CONTACTOR WELDED - CONTACTOR WELDED - G.S.CONTACTOR REPLACED & TESTED OK.'.
**06.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 5 BAGS ADDED TO EACH CASE.'.
**15.07.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - NO. 13 JUMPER LINE REPLACED.'.
**28.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**28.07.1990** Service defect: 'TW - LUBRICATING SYSTEM OIL COOLER - OIL LEAK - 'O'RING ON OIL COOLER REPLACED.(D/SIDE)'.
**20.08.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(6),6 BAGS(1-5).'.
**07.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**28.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO ECH G/CASE.'.
**14.10.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS NO.4 TRACTION MOTOR'.
**16.10.1990** Service defect: 'UN - TRACTION MOTOR - NO.4 T/MOTOR TO BE CHANGED OUT A/C GROUND RELAYS'.
**16.10.1990** Service defect: 'UN - TO BE TAKEN TO P/BORO A/C NO.4 T/MOTOR CHANGEOUT'.
**18.10.1990** Service defect: 'UN - TRACTION MOTOR - T/MOTOR NO.4 CHANGED OUT A/C GROUND/RELAYS.'.
**20.10.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION -'.
**03.11.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**03.11.1990** Service defect: 'TS - ENGINE WATER LEAK - LOSING WATER - NO.12 JUMPER/LINE REPLACED.(CRACKED) - (FAILED TRAIN NO.4PS1)'.
**04.11.1990** Service defect: 'TS - ENGINE - - (FAILED TRAIN NO.7AP1 AT HESSO)'.
**04.11.1990** Service defect: 'TS - OVERHEATING - HOT ENGINE - 4 NO.FAN FUSES REPLACED A/C BLOWN. - FAN TEST COMPLETED AFTER 1.HR RUN OK.'.
**09.11.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE - M/RES.SAFETY VALVE FITTED.(USED FOR DL42)'.
**18.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**26.11.1990** Service defect: 'UN - BATTERY MAINTENANCE - DEAD CELL - 1 NO.STARTING BATTERY REPLACED.'.
**26.11.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1,2&4 T/MOTORS CLEANED/UP.(FLASHED)'.
**06.12.1990** Service defect: 'TS - COOLING SYSTEM WATER PUMP - CRACKED HOUSING - R/H WATER PUMP REPLACED.(IMPELLOR FAILURE)(LOST WATER)'.
**06.12.1990** Service defect: 'TS - ENGINE WATER LEAK - LOST WATER - NO.9 JUMPER/LINE REPLACED. - (REPLACED WEST/KAL.DEPOT)'.
**10.12.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - STARTING PROBLEM - RING/GEAR WORN.'.
**10.12.1990** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - NO.13 JUMPER/LINE REPLACED.(CRACKED)'.
**26.12.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**26.12.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSHES CHANGED NO.1&4 T/MOTORS. - (BROKEN PIG/TAILS)'.
**26.12.1990** Service defect: 'TS - TRACTION MOTOR FLASHOVER - FLASH/OVER - NO.1 T/MOTOR CLEANED/UP & RE-PAINTED.'.
**08.01.1991** Service defect: 'TS - TRACTION MOTOR - EARTH FAULT - NO.4 T/MOTOR REPLACED.'.

**16.01.1991** Service defect: 'UN - NO POWER - SENSOR SUSPECT.'.
**17.01.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NO POWER, - CR1 REPLACED A/C OPEN CURCUIT.'.
**24.01.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY IN DYNAMIC - H.T. MEGGERED, GRIDS, CONTACTORS O.K. SLIGHT FLASHING # 4 T/MOTOR - CLEANED & TEST RUN IN YARD O.K'.
**29.01.1991** Service defect: 'UN - BOGIE - 3 BAGS OF GREASE ADDED TO ALL TRACTION MOTOR GEAR CASES'.
**31.01.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - L3 (4) R3 (3) L4 (7) R4 (0)'.
**31.01.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - L5 (0) R5 (6) L6 (8) R6 (0).01/02/91'.
**31.01.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - WHEEL PROFILE REQUIRED A/C L6 (8) L1 (3) R1 (2) L2 (4) R2 (0)'.
**31.01.1991** Service defect: 'B - GENERAL LOSS OF POWER - ELDM&L INTERLOCK - HIGH RESISTENCE, CLEANED & TESTED O.K.'.
**31.01.1991** Service defect: 'B - TRACTION MOTOR EARTH - LOW HIGH TENSION MEGGA READING - T/MOTOR BRUSH HOLDER INSUL-ATORS CLEANED (H/TENSION 2 MEGGS).'.
**05.02.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HUNTING -'.
**20.02.1991** Service defect: 'UN - STARTER MOTOR - BOTTOM STARTER MOTOR REPLACED.'.
**01.03.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - M12 CONTACTOR REPLACED A/C DIRTY CONTACTS.'.
**04.03.1991** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**04.03.1991** Service defect: 'A - CONTACTOR INTERLOCKS - NO POWER - I.S.A.INT/LOCKS CLEANED/UP. - (SERIES CONTACTOR NOT PICKING/UP)'.
**04.03.1991** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - COIL WIRE - POSITIVE WIRE ON GFA COIL REPLACED.'.
**06.03.1991** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC - R1A/R1B REPLACED A/C OPEN/CIRCUITED.'.
**11.03.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1&4 T/MTRS.CLEANED/UP A/C FLASHED. - TRANSITION TESTED OK.'.
**26.03.1991** Service defect: 'SW - ENGINE - WORN RING/GEAR - FLY/WHEEL CHANGE/OUT COMPLETED.'.
**03.04.1991** Service defect: 'UN - BATTERY CHANGE P.G. A/C NO LIFTING GEAR.'.
**05.04.1991** Service defect: 'SW - BATTERY MAINTENANCE - FLAT BATTERIES - NEW SET OF BATTERIES INSTALLED.'.
**05.04.1991** Service defect: 'SW - ELECTRICAL MISC. TRANSITION - NO TRANSITION - FTR & BTR TIPS CLEANED/UP,TRANSITION TEST OK - (FAILED TRN.NO.3AP6 27/3/91)'.
**10.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - EXPLODED DRAW/GEARS - 'A'&'B'END DRAW/GEARS REPLACED. - REAR POCKET RE-WELDED.'.
**12.05.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSH IN NO.1 T/MOTOR REPL'D.(SHATTERED) - & PIG/TAIL ARCING ON FRAME.'.
**12.05.1991** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - NO.16 JUMPER/LINE REPLACED.(CRACKED)'.
**30.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIELD FAILURE - TURBO SOAK/BACK PUMP REPLACED.'.
**14.06.1991** Service defect: 'UN - GENERAL - HEADLIGHT REPAIRED.'.
**18.06.1991** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - ISOLATION SWITCH REPAIRED.'.
**18.06.1991** Service defect: 'C - ENGINE - NO 13 & 14 POWER ASSEMBLYS CHANGED.'.
**18.06.1991** Service defect: 'C - GENERAL - HANDBRAKE REPAIRED.'.
**19.06.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 'FF'CABLE ON NO.6 T/MOTOR REPAIRED.'.
**21.06.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - WHEEL SLIP WIRE REPAIRED.(TRACK TO FRAME - NO.5 T/MTR CLEANED/UP.(TRACKING TO ARM.)'.
**21.06.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTORS - NO.13&14 INJECTORS REPLACED.'.
**24.06.1991** Service defect: 'TS - TO BE INSPECTED FOR GR'S.24/6.'.
**01.07.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - 'V'RINGS ON T/M'S 1 & 4 PAINTED & INSULATORS WIPED.BRUSHES REPLACED IN NO 1 T/M,A/C BROKEN BRUSHES.BRUSHES REPLACED IN'.
**29.08.1991** Service defect: 'A - GENERAL - OBS/SIDE ENGINE ROOM DOOR CATCH REPAIRED.'.
**29.08.1991** Service defect: 'A - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED,TAKEN FROM CL 4,A/C DAMAGED.'.
**29.08.1991** Service defect: 'A - VIGILANCE - VIG VALVE REPLACED, A/C FAULTY.'.
**19.09.1991** Service defect: 'UN - ENGINE WATER LEAK - NO 14 CYLINDER WATER MANIFOLD TO CYLINDER LINER PIPE + PIPE JOINT ON WATER PUMP INLET REPAIRED,A/C WATER LEAK.'.
**19.09.1991** Service defect: 'UN - STARTER MOTOR - BOTTOM STARTER MOTOR CHANGED.'.
**30.09.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - SEIZED FAN - NO.3 RAD/FAN REPLACED.'.
**24.10.1991** Service defect: 'TS - BOGIE - BOGIES CHANGED (CL 14 BOGIES FITTED).'.
**07.01.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - S25,P5 CONTACTORS REPLACED.'.
**07.01.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - CONTROL WIRING BELLED OUT & REPLACED.'.
**10.02.1992** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR CLEANED WITH PRESSURED HOT WATER OK.RADIATOR FAN MANUAL OPERATION OK.ON ACCOUNT OF SHUT DOWN.'.
**19.02.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INTAKE FILTERS DIRTY.REPLACED.'.
**19.02.1992** Service defect: 'TS - EXHAUST - CHECK EXHAUST INSP.PORT.OK.'.

**27.02.1992** Service defect: 'A - GENERAL - DRIVERS SIDE MIRROR REPLACED. HEATERS REPAIRED.'.
**27.02.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - REPLACED NO6 TOP SIDE BRUSH HOLDERS IN T/MOTOR. REPLACED AND COVERED WITH RUBBER NO6 T/MOTOR LEAD A/C CRACK.'.
**27.02.1992** Service defect: 'A - TOILET CHUTE TO REPLACE.'.
**03.03.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INSPECTED OK.'.
**05.03.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LOW TENSION EARTH IN HEATER CIRCUITS CLEARED.'.
**12.03.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGEOVER COMPLEATED INSPECTED CLEARED OK.'.
**31.03.1992** Service defect: 'TS - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK AS SINGLE UNIT.'.
**31.03.1992** Service defect: 'TS - ELECTRICAL MISC. JUMPER CABLES - NO.14 JUMPER LINE REPLACED A/C WATER LEAK.'.
**15.04.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE REGULATION CHECKED OK IN DEPOT & ON TRIAL RUN.'.
**21.04.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - TWO FUSES REPLACED NO 3 RADIATOR FAN MEGERED OK'.
**22.05.1992** Service defect: 'D - FUEL SYSTEM - L.H.S.FUEL GAUGE REPAIRED.'.
**22.05.1992** Service defect: 'D - MECHANICAL EQUIPMENT SANDING GEAR - R1 SAND TRAP REPAIRED.'.
**07.07.1992** Service defect: 'UN - GENERAL ACCIDENT - L1 BRAKE CYLINDER AND L/H/S MIRROR REPLACED.-DAMAGED IN AN ACCIDENT.'.
**17.07.1992** Service defect: 'UN - ENGINE - NO.9 TEST COCK REPLACED.'.
**17.07.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO.8 FUEL INJECTOR REPLACED A/C SEIZED.'.
**17.07.1992** Service defect: 'UN - REVERSER - REVERSER 'GUTS' REPLACED A/C USED FOR CL9.'.
**17.07.1992** Service defect: 'UN - STARTER MOTOR - STARTER MOTOR BRACKET HOLES ELONGATED AND FITTED TO MOTOR. STARTER MOTORS RE-ALIGNED TO MESH CORRECTLY.'.
**10.08.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - NO.2 WICK OIL CHANGED A/C DIRTY OIL. - WICKS OK.'.
**10.08.1992** Service defect: 'A - FUEL SYSTEM - FUEL STRAINER CHANGED A/C DIRTY AND RUSTY.'.
**10.08.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 42 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.
**16.09.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - LOCO OK ON TRIAL RUN,A/C GR'S.'.
**16.09.1992** Service defect: 'UN - PRESSURISING FAN DISSCONECTED,A/C NOT WORKING.DYN/'.
**16.09.1992** Service defect: 'UN - BRAKE ISOLATED,WIRE REMOVED FROM DYN CUTOUT SWITCH'.
**16.09.1992** Service defect: 'UN - 16/9.'.
**21.09.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - STAR POINT CABLE REPLACED EX CL7. 3 CABLES RELUGGED ON STAR POINT.FUSES REPLACED.'.
**21.09.1992** Service defect: 'TS - RADIATOR/PRESSURISING FAN - NO 1 & 2 RADIATOR FANS CHANGED,EX CL7,A/C SHUTTING DOWN WITHHOT ENGINE.'.
**30.10.1992** Service defect: 'B - DYNAMIC BRAKE - DYN/BRAKE GRIDS RECONNECTED.'.
**30.10.1992** Service defect: 'B - ENGINE - NO 13 JUMPER LINE CHANGED.'.
**30.10.1992** Service defect: 'B - LUBRICATING SYSTEM - 'O'RING REPLACED ON HEAT EXCHANGER D/SIDE,A/C OIL LEAK.'.
**03.11.1992** Service defect: 'UN - LUBRICATING SYSTEM - 1/4' COPPER PIPE BROKEN UNDER GOVERNOR TO STRAINER BOX. FLARE RE-MADE & FITTED.'.
**21.12.1992** Service defect: 'TS - ENGINE WATER LEAK - OBS/SIDE NO 1 RADIATOR CHANGED OUT, A/C WATER LEAK.'.
**18.01.1993** Service defect: 'SW - BATTERY MAINTENANCE - BATTERIES NOT REMOVED A/C LOCO GOING TO M&K NEXT WEEK.'.
**18.01.1993** Service defect: 'SW - VIGILANCE - V/CONTROL VALVE REMOVED FOR AL25.'.

### CL 14

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**07.07.1989** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - OIL LEAK - GASKET ON TURBO/FILTER HEAD & PIPE REPLACED.'.
**07.07.1989** Service defect: 'B - NO FAULT FOUND - DRAIN CHECK - AIR/BOX DRAINS CHECKED OK.'.
**10.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL CONDITION - EX.AL24 BOGIES INSTALLED.'A'BOGIE CL121. NO.1 WHEEL FLAT. 'B'BOGIE CL105.'.
**10.07.1989** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - OCP RE-SET,OPERATION CHECKED OK.'.
**01.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - BLOCKED SANDERS - SANDERS UNBLOCKED & OPERATING OK.'.
**01.08.1989** Service defect: 'UN - NO FAULT FOUND - DYNAMIC FAULT - GRIDS/CONTACTORS/CABLES ALL CHECKED OK. - OPERATION NOT FAULTED.'.
**01.08.1989** Service defect: 'UN - OTHER BODY REPAIRS - WALK/WAYS - DEGREASED A/C OILY. * REPAIRS ABOVE REPORTED AT 0900 HRS FROM BUDD SIDING *'.
**01.08.1989** Service defect: 'UN - VIGILANCE - VIGILANCE - C/BREAKER RE-SET A/C TRIPPED & RE-SEALED. - VIGILANCE OPERATION & TIMING CHECKED OK.'.
**05.08.1989** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - NO BATTERY CHARGE - VOLTAGE REGULATOR REPLACED.'.
**02.09.1989** Service defect: 'TW - BOGIE - LUBE CHECK -6BAGS NO.1,2,3.& 2BAGS NO.4,5,6 GEAR CASES.'.
**15.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.
**22.09.1989** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,4,5&6),6 BAGS(3).'.
**23.10.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 4BAGS IN 1,3,4,5,6.& 7BAGS ADDED TO

NO.2 GEAR CASE.(TMGL)'.
**20.11.1989** Service defect: 'E - TRACTION MOTOR - NO.4 TRACTION MOTOR REPLACED A/C GROUND RELAYS.'.
**04.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.
**14.12.1989** Service defect: 'TS - CONTACTOR WELDED - LOSS OF POWER - P.5 CONTACTOR REPLACED.(WELDED) - TESTED IN POWER,DYNAMIC & TRANSITION OK.'.
**28.12.1989** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH GEARCASE.'.
**28.12.1989** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - INTERNAL AND EXTERNAL CHECKS CARRIED OUT NO LEAKS FOUND.'.
**28.12.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE - SAFETY VALVE CHECKED AND ADJUSTED.'.
**02.01.1990** Service defect: 'UN - NO FAULT FOUND - LOSING COOLING WATER - ENGN.BLOCK & RADIATORS INSPECTED. - PRESSURE TESTED,NO LEAK DETECTED.'.
**11.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - WORN DRIVE GEAR & PINION - NO.2 WHEEL SET & T/MOTOR CHANGED. - WICK CHECKED OK AFTER TRIAL RUN.'.
**11.01.1990** Service defect: 'A - TO BE PROFILED A/C FLANGE NO.3 8++. (11/1)'.
**16.01.1990** Service defect: 'WT - REMOVED 20MM. FROM NO. 1&3 WHEELS. AND 10MM. FROM'.
**16.01.1990** Service defect: 'WT - 4,5&6 WHEELS. SENT TO MILE END FOR BRAKE ADJ.'.
**28.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**28.01.1990** Service defect: 'TW - ENGINE - BLOWN TEST/COCK - NO.12 TEST/COCK REPLACED.'.
**23.02.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - ENGINE PRESSURE TESTED, UNABLE TO FAULT.'.
**23.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - PARTITION WALL - ALTERNATOR/ENGINE PARTITION WALL INSTALLED.'.
**28.02.1990** Service defect: 'TS - GENERAL LOSS OF POWER - NOT PULLING AMPS - TESTED AT DDPTAUG , UNABLE TO FAULT.'.
**01.03.1990** Service defect: 'UN - CONTACTOR INTERLOCKS - LOSING POWER -'.
**05.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE - CHECKED & TESTED OK.'.
**05.03.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL EARTH - EARTH ON FRONT JUMPER RECEPTICLE,TESTED OK. LOST POWER WHEN SANDERS OPERATED.'.
**27.03.1990** Service defect: 'TS - NO FAULT FOUND - NOT PULLING AMPS - LOCO CHECKED IN DEPOT.(NOT FAULTED)'.
**30.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(2,4&6),6 BAGS(1,3&5).'.
**30.03.1990** Service defect: 'TW - ENGINE WATER LEAK - WATER LEAK - NO.14 WATER/ELBOW & SEALS REPLACED.'.
**30.03.1990** Service defect: 'TW - EXHAUST - BLOWN GASKET - EXPANSION JOINT REPLACED.'.
**02.04.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - TESTED , UNABLE TO FAULT.'.
**04.04.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - POWER LOSS - PARALLEL CONTACTOR REPLACED.'.
**20.04.1990** Service defect: 'TS - CONTACTOR WELDED - WELDED CONTACTOR - P5 CONTACTOR REPLACED.'.
**03.05.1990** Service defect: 'WT - BRAKE ADJUST MILE END'.
**07.05.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - IDAC - REPLACED.'.
**21.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**24.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - CRACKED DRAW BAR - REAR ASSEMBLY REPLACED.'.
**30.05.1990** Service defect: 'TS - BROKEN VALVE - BROKEN VALVE - NO.12 ASSEMBLY CHANGED/OUT.'.
**01.06.1990** Service defect: 'C - OTHER BODY REPAIRS - FUMES IN CAB - ALL CAB SEALS REPLACED A/C RUBBER HARDENED.'.
**11.07.1990** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR REPLACED A/C SEIZED.'.
**14.07.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 1,2,3 ( 4 BAGS ), 4,5,6 ( 6 BAGS ).'.
**25.07.1990** Service defect: 'TS - OVERHEATING - O/HEATING - CONNECTING STRIP FUSE HOLDER REPLACED.(BURNT) - 1 NO.FUSE REPLACED(BLOWN),1 FUSE & LUG REPLACED.'.
**28.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - SEVERAL BLOCKS REPLACED & BRAKES ADJUSTED.'.
**04.08.1990** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - NO.13&14 JUMPER/LINES REPLACED.(CRACKED)'.
**11.08.1990** Service defect: 'TS - ENGINE WATER LEAK - LOST WATER - NO.1 WATER ELBOW & SEALS CHANGED.'.
**14.08.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - NO.1 WATER/ELBOW & SEALS REPLACED.(SEAL DAMAGE)'.
**28.08.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - O/SIDE HEADER GASKET REPLACED.(REAR OF BANK)'.
**30.08.1990** Service defect: 'UN - COOLING SYSTEM - LOSING WATER - O/SIDE AFT/COOLER REPLACED.(HOLE IN CORE)'.
**04.09.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - LOSING WATER - NO.6 CYLINDER HEAD REPLACED.(SUSPECT) - NO.10 CYLINDER HEAD REPLACED.(GROMMET LEAK)'.
**14.09.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - D/SIDE NO.2 & O/SIDE NO.3 RADIATOR CHANGED.'.
**14.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - CABLE REPLACED.(SPEEDO FLUCTUATING 25 KMS)'.
**25.09.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - O/SIDE NO.4 BRAKE STRAP REPLACED.'.
**09.10.1990** Service defect: 'B - RADIATOR/PRESSURISING FAN - NO.3 RADIATOR FAN CHANGED OUT A/C BURNT PINS AND BLOWN FUSES'.
**09.10.1990** Service defect: 'B - TO BE TAKEN TO P/BGH A/C AXLEBOX TO BE CHANGED'.
**09.10.1990** Service defect: 'B - OUT,AND OTHERS INSPECTED'.
**11.10.1990** Service defect: 'UN - BOGIE - R6 AXLEBOX

CHANGED OUT.'.

**11.10.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL PROFILES UNSATISFACTORY,SENT TO WHEEL TRUER'.

**11.10.1990** Service defect: 'UN - TO BE SENT TO WHEEL TRUER'.

**21.10.1990** Service defect: 'UN - NO FAULT FOUND - WATER LEAK - INTERNALLY/EXTERNALLY INSPECTED,NO LEAK FOUND.'.

**30.10.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEELS - O/HAULED BOGIES INSTALLED. - ('A'BOGIE CL107,'B'BOGIE AL110)'.

**31.10.1990** Service defect: 'SW - BOGIE - G/CASE - NO.2 G/CASE SEALED & ON TEST LUBRICANT.'.

**31.10.1990** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - COMPLETED.'.

**31.10.1990** Service defect: 'SW - ENGINE WATER LEAK - USING WATER - NO.14&16 CYL/HEADS REPLACED.(WATER JACK/HOLE) - NO.2 JUMPER/LINE REPLACED.'.

**31.10.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - OUTER CABLE SHORTENED.'.

**05.11.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO NO.2 G/CASE.(TEST LUBE) - OTHER G/CASE LEVELS CHECKED OK.'.

**05.11.1990** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK - NO.3 THERMOSTAT PLUG RE-LOCATED.'.

**05.11.1990** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORTED - 2 NO.FUSES REPLACED NO.2 FAN CIRCUIT. (TRAIN NO.6PA1) - FANS MEGGERED OK.'.

**09.11.1990** Service defect: 'UN - BOGIE - TEST LUBE - COMPLETED.(NO.2 G/CASE NOW ON TMGL)'.

**09.11.1990** Service defect: 'UN - ENGINE WATER LEAK - USING COOLING WATER - NO.15 HEAD & HEAD/GASKET REPLACED. (PRESSURE TESTED) - (GROMET BROKEN NEAR EXHAUST VALVE)'.

**13.11.1990** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - NO.10 HEAD REPLACED.(GROMETS SPLIT)'.

**22.11.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - D/SIDE VENT/PIPE REPLACED.(HOLED)'.

**26.11.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - WATER LEAK NO12 CYLINDER HEAD CHANGED A/C CRACKED'.

**04.12.1990** Service defect: 'TS - ENGINE WATER LEAK - LOSING WATER - NO.11 HEAD & HEAD/GASKET REPLACED. - (GROMET SPLIT AROUND EXHAUST VALVE)'.

**12.12.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK - O/SIDE NO.1 RADIATOR REPLACED.'.

**12.12.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - * REPAIRS COMPLETED A/C PREVIOUS BOOKINGS ON WATER LOSS *'.

**12.12.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - HEAD GASKETS - NO.1,2,3,4,5,7,8,9&13 HEADS & GASKETS CHANGED - GROMMETS HARD & SOME SPLIT.'.

**21.12.1990** Service defect: 'TS - AUXILLARY MACHINES - AUX/GEN FAILURE - UNIT CHANGE/OUT COMPLETED.'.

**22.12.1990** Service defect: 'UN - BROKEN PIPE - LOW WATER SHUT/DOWN - D/SIDE VENT PIPE REPLACED.(BROKEN)'.

**08.01.1991** Service defect: 'A - ENGINE CYLINDER HEADS - GROMMET LEAK - NO.12 HEAD & HEAD GASKET SET REPLACED.'.

**19.01.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED & ADJUSTED.'.

**19.01.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FUEL PUMP MOTOR REPLACED.'.

**05.02.1991** Service defect: 'TS - ALTERNATOR - ALTN FAILURE LIGHT ON - VOLTAGE REGULATOR REPLACED.'.

**11.02.1991** Service defect: 'TS - ALTERNATOR - ALTN FAILURE LIGHT - ILLUMINATED.'.

**13.02.1991** Service defect: 'UN - BROKEN PIPE - LOSING WATER - D/SIDE RADIATOR VENT PIPE REPLACED. - (VENT PIPE BROKEN)'.

**20.02.1991** Service defect: 'TS - ALTERNATOR - ALTN FAILURE LIGHT ON - VOLTAGE REGULATOR REPLACED. (UNSCHEDULED REPAIR 17/2/91 0300HRS TO 0600HRS.)'.

**20.02.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - CRANK/CASE OPERATION - NO.10 PISTON & CYL/HEAD REPLACED. - (PISTON CRACKED,BROKEN BOTTOM RING)'.

**05.03.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - 6 BRUSHES CHANGED OUT OF 1 & 3 TM'S,(LOOSE PIGTAILS)A/C GR'S'.

**21.03.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - BLOWN REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**21.03.1991** Service defect: 'TS - WHEELSLIP - CONTINUOUS WHEEL/SLIP - WHEEL/SLIP RESISTOR REPLACED. - (RESISTOR OPEN/CIRCUITED)'.

**21.03.1991** Service defect: 'TS - LOCO HAULED TO PT AUG,A/C AUX GEN CHANGE,LOCO FOR'.

**21.03.1991** Service defect: 'TS - TEST RUN,A/C W/S.'.

**22.03.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - SHORTED DIODE - DIODE REPLACED IN CR48 IN D14 CIRCUIT. - (BLOWN SEVERAL VOLTAGE REGULATORS)'.

**26.03.1991** Service defect: 'D - BOGIE - LUBRICANT CHECK - 4 BAGS (3&5),5 BAGS (1,2,4&6).'.

**26.03.1991** Service defect: 'D - ENGINE TURBOCHARGER/SUPERCHARGER - HIGH READING - AFT/COOLER REPLACED.(9-16 SIDE)'.

**03.04.1991** Service defect: 'TS - ENGINE CRANKSHAFT - - PEE/PIPE FITTED.(BROKEN OFF) - ENG/OIL & FILTERS CHANGED.'.

**03.04.1991** Service defect: 'TS - ENGINE CRANKSHAFT - CRANK/CASE OPERATION - NO.1 POWER ASSY REPLACED. - CRACKED PISTON,SLIPPER BEARING U/S.'.

**09.04.1991** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP IN DYNAMIC - WIRING R4 & R5 WIRING CORRECTED. - B23,M45 & B3 TIPS REPLACED.(BURNT)'.

**03.05.1991** Service defect: 'UN - RETURN MPC FOR REPAIR A/C TURBO OIL LEAK.'.

**17.05.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN BLOWER CONNECTIONS CHECKED OK.'.

**17.05.1991** Service defect: 'UN - ELECTRICAL MISC.

VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED,SET TO 72 V.D.C.A/C U/S.'.

**06.06.1991** Service defect: 'UN - BOGIE - LUBE CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**06.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - WIRING REPAIRED ON BACK OF MU BOARD.'.

**18.06.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED AUX GEN FUSE.'.

**18.06.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATER SET TO 72VDC,ADJUSTED EZ-REFERENCE VOLTAGETO 72V.LOCO CHARGING OK,BATTS OK,A/C VOLTAGE REG U/S.'.

**20.06.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - 6 SAND TRAPS CLEARED,A/C WET SAND.'.

**20.06.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 3 MAIN RES & 1 NO 4 HOSE REPLACED.'.

**20.06.1991** Service defect: 'A - WATER AFTERCOOLER PIPE TO BLOCK MOUNTING'.

**20.06.1991** Service defect: 'A - CONNECTION LEAKING.NEEDS ATTENTION(NEW PIPE FLANGE'.

**20.06.1991** Service defect: 'A - ).21/6.'.

**28.06.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - BLOWN VOLTAGE/REGULATOR'.

**26.08.1991** Service defect: 'B - COOLING SYSTEM RADIATOR - R2 RADIATOR REPLACED, A/C LEAKING.'.

**26.08.1991** Service defect: 'B - ENGINE - NO 1 POWER ASSEMBLY REPLACED, A/C SCORED LINER.'.

**26.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - L2 BRAKE CYLINDER REPLACED, A/C LEAKING.'.

**25.09.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - WATER LEAK - ENGINE PROTECTOR REPLACED.'.

**25.09.1991** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORT - TB THERMOSTAT PLUG RE-LOCATED.'.

**07.10.1991** Service defect: 'UN - NO FAULT FOUND - G/RELAY OPERATION - LOCO TEST RUN COMPLETED,NOT FAULTED.'.

**06.11.1991** Service defect: 'A - BOGIE - CL14 PLACED ON TEMPORARY BOGIES. TO BE SENT TO PT.AUGUSTA.'.

**14.05.1992** Service defect: 'F - PAINTWORK ALTERATIONS'.

**10.06.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GDL RESET.FOUND PULLED PIGTAIL IN NO.3 T/M.-REPLACED.'.

**10.06.1992** Service defect: 'TS - GENERAL LOSS OF POWER - TRAIL RUN A/C NO POWER-NO FAULT FOUND.'.

**08.07.1992** Service defect: 'A - BOGIE - LATERAL CLEARANCES CHECKED ON 3&4.OK.'.

**08.07.1992** Service defect: 'A - COOLING SYSTEM - ENGINE COOLANT CHANGED.'.

**08.07.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - LAMP HOLDER REPLACED ON STEPS.'.

**08.07.1992** Service defect: 'A - ENGINE - ENGINE COMPLETELY RE-TORQUED. A/C FIRST SERVICE AFTER OVERHAUL.'.

**08.07.1992** Service defect: 'A - ENGINE GOVERNOR ELECTRICAL - ENGINE GOVERNOR CHANGED A/C NEGATIVE TO EARTH.'.

**08.07.1992** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO STUB SHAFT PLATE GASKET RENEWED A/C OIL LEAK.'.

**08.07.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 28 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.

**17.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - LOCO OVERHEATED ENROUTE TO ALICE SPRINGS. RADIATOR FAN WIRING BURNT. TEMPORARY REPAIRS TO CABLES CARRIED OUT AND'.

**17.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - NON FUSED CABLE ON FEED TO RADIATOR FANS BURNT OFF A/C HIGH RESISTENT JOINT TEMPORY REPAIRS CARRIED OUT IN BACK'.

**17.08.1992** Service defect: 'UN - TEMPORY WIRING IN BACK CABINET TO REPAIR ON MAIN'.

**17.08.1992** Service defect: 'UN - RADIATOR FEED'.

**28.08.1992** Service defect: 'UN - WHEEL SET TO CHANGE. LOCAL TRAFFIC ONLY. 28/8/92.'.

**11.09.1992** Service defect: 'UN - BOGIE - REFIT BRAKE GEAR, DONE LATERAL CLEARANCES, LUBE COMPLETED, DIRECTION TESTED.'.

**11.09.1992** Service defect: 'UN - VIGILANCE - V.C. LIGHTS REPAIRED TESTED OK.'.

**25.09.1992** Service defect: 'B - COOLING SYSTEM - ENGINE COOLING WATER CHANGED.'.

**08.12.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - TERMINAL BLOCK FOR RADIATOR FAN FUSES REPLACED & 2 FUSES REPLACED. CABLE REINSULATED WHERE NEEDED & CABLE REPAIRED.'.

**19.12.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L4 WICK & OIL CHANGED, A/C DIRTY.'.

**19.12.1992** Service defect: 'A - DYNAMIC BRAKE - DYN/BRAKE RHEOSTAT CHANGED.'.

**19.12.1992** Service defect: 'A - NO 4 T/M PULLED PIGTAILS ON 10 & 12 BRUSHES, TO'.

**19.12.1992** Service defect: 'A - MONITOR.19/12.'.

**29.01.1993** Service defect: 'TS - CONTACTOR MISCELLANEOUS - BUSBAR AT REAR OF B23 CONTACTOR REMOVED FOR CL 17. REPLACED WITH ONE BUILT FROM 955.'.

**29.01.1993** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - FTR REPLACED, TRANSITION OK.'.

**29.01.1993** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED,A/C CABLE FROM INTERPOLE (TOP) TO BRUSH HOLDER (BOTTOM) INSULATION BURNT. T/M IN- 82B1-1001.'.

**11.02.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES CHANGED IN NO 4 T/MOTOR, A/C BROKEN. COMMUTATOR HAD BAD FLATS.'.

**24.02.1993** Service defect: 'UN - ENGINE GOVERNOR - FAULTY 'C' VALVE - ENGINE GOVERNOR REPLACED A/C OPEN CIRCUITRACKS ADJUSTED. ENGINE REVS CHECKED OK.'.

**10.03.1993** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO 4 T/MOTOR REPLACED, A/C FLATS. T/M IN- 61L-126. T/M OUT- 75J1-1369.'.

**17.03.1993** Service defect: 'C - ENGINE - ROCKER ARM,EXHAUST VALVE REPLACED,NO 16. BOTH VALVE BRIDGES REPLACED,NO 16. SEAL REPLACED, SUMP INSPECTION COVER,NO 12.'.

**CL 15**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**03.07.1989** Service defect: 'A - NO FAULT FOUND - LOW POWER - LOCO NOT FAULTED IN DEPOT FOR LOW POWER FAULT.'.
**03.07.1989** Service defect: 'A - RADIATOR/PRESSURISING FAN - CRACKED BASE - FRONT PRESSURISING FAN REPLACED.'.
**15.07.1989** Service defect: 'UN - BLOCKED FILTERS - BLOCKED FILTERS - AIR/INTAKE FILTERS REPLACED.(TURBO) (COAL DUST)'.
**15.07.1989** Service defect: 'UN - BOGIE - THIN/DISCOLOURED BLOCKS - ALL BRAKE/BLOCKS REPLACED. LUBRICANT CHECK - 5 BAGS(1,2&3)CRATER,2 BAGS(4,5&6)TMGL.'.
**23.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. LUBRICATORS - CHECKED OK.'.
**28.08.1989** Service defect: 'B - BOGIE - FLANGE LUB BRACKETS REMOVED A/C CRACKED.MOD BRACKETS TO BE FITTED AT LATER DATE.'.
**18.09.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR INSPECTION - COMPLETED AFTER LOCO PROFILED DC1.'.
**24.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**09.10.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&3),6 BAGS(4,4&6). EXCESS TRAVEL - SEVERAL BLOCKS REPLACED & BRAKES ADJUSTED.'.
**09.10.1989** Service defect: 'TW - ELECTRICAL MISC. AC/DC RELAYS - ALARM BELL RINGING - N.V.R.REPLACED.'.
**20.10.1989** Service defect: 'A - ENGINE LINER - NO.4 LINER REPLACED A/C BROKEN LINER STUD.'.
**23.10.1989** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMP MOTOR REPLACED A/C FUEL PUMP CURCUIT BREAKER TRIPPING.'.
**28.10.1989** Service defect: 'UN - DYNAMIC BRAKE - BPS REPAIRED .LOCO TESTED IN DYN & POWER OK,A/C INTERMITTENTLOSS OF POWER,& NO DYNAMIC.'.
**05.11.1989** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE MICRO SWITCH REPLACED. INTERLOCK BOX ON D2. REPLACED.MICRO SWITCH ON B.P.S. REPLACED & TESTED IN DYNAMIC'.
**14.11.1989** Service defect: 'UN - ENGINE WATER LEAK - BARRELL UNION ON ENGINE WATER DRAIN TIGHTENED A/C LOOSING WATER.'.
**18.11.1989** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE - BPS OPERATION CHECKED OK,FOUND BPS 5 CLOSED A/C BPS MOTOR NOT GOING BACK TO POSITION NO,1. MANUALLY TURNED'.
**10.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**10.01.1990** Service defect: 'UN - VIGILANCE - VIG CHECKED OK IN DEPOT.'.
**11.01.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT -'.
**11.01.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - NO.2 THERMOSTAT REPLACED.'.
**11.01.1990** Service defect: 'UN - VIGILANCE - VIGILANCE TIMING - ADJUSTED.'.
**19.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - CRACKED DRAW/BAR - FRONT DRAW/BAR REPLACED.'.
**08.02.1990** Service defect: 'UN - BOGIE - DERAILMENT CHECK - BOGIE G/CASES CHECKED OK.'.
**08.02.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - REAR LIGHT - LIGHT ASSEMBLY REPAIRED.'.
**12.02.1990** Service defect: 'WT - REMOVED 18MM. FROM NO. 1 WHEEL. 20MM. FROM NO.2,'.
**12.02.1990** Service defect: 'WT - 28MM. FROM NO. 3, 33MM. FROM NO. 4, 28MM. FROM 5,'.
**12.02.1990** Service defect: 'WT - 25MM. FROM 6 WHEEL.'.
**12.02.1990** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.
**17.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&3),6 BAGS(4&5),8 BAGS(6).'.
**12.03.1990** Service defect: 'UN - GENERAL - RETURNED TO PT AUGUSTA FOR VIGILANCE REPAIRS,L3 SAND PIPE REPAIRS & BRAKE ADJUSTMENTS.'.
**14.03.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS(4,5&6),5 BAGS(1,2&3).'.
**14.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER - L.3 SANDER PIPE REPAIRED.'.
**14.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPAIR - LOCKING BAR ON O/SIDE WINDOW REPLACED. - ( ' ' MISSING)'.
**19.03.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.
**27.03.1990** Service defect: 'UN - VIGILANCE - VIGILANCE FAULTY,UNABLE TO REPAIR,RETURNED TO PT AUGUSTA FORREPAIRS.'.
**12.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDEDTO EACH G/CASE.'.
**03.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(2&3),6 BAGS(1).(CRATER) - 4 BAGS(4,5&6). (TMGL)'.
**08.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(5),4 BAGS(1,2,3&4),5 BAGS(6).'.
**06.06.1990** Service defect: 'UN - VIGILANCE - VIGILANCE TIMING CYCLE RESET.'.
**08.06.1990** Service defect: 'A - BOGIE - FLANGE LUBRICATORS INSPECTED AND TESTED TO CHECK OPERATION WHICH WAS OK.'.
**13.06.1990** Service defect: 'WT - BRAKES TO ADJUST'.
**22.06.1990** Service defect: 'TW - BOGIE - FLANGE LUBE INSPECTION - COMPLETED. LUBRICANT CHECK - 4 BAGS(1,2&3),5 BAGS(4,5&6).'.
**10.07.1990** Service defect: 'UN - BOGIE - FRONT FLANGE LUBRICATORS TAKEN OFF A/C BRACKETS U/S.'.
**11.07.1990** Service defect: 'UN - VIGILANCE - DRIVERS SIDE VIGILANCE BUTTON BOOKED FOR STICKING,CHECKED OKIN DEPOT.'.
**11.07.1990** Service defect: 'UN - REVS NO POWER PT AUGUSTA TO REPAIR'.
**12.07.1990** Service defect: 'UN - GENERAL LOSS OF POWER - NO POWER - FO1,TX2,RE1,GL2 & PC9 WIRES FOUND PULLED OFF?. WIRES RECONNECTED, UNABLE TO FAULT.'.
**26.07.1990** Service defect: 'UN - ALTERNATOR - LOST POWER - SLIP/RINGS CHANGE/OUT COMPLETED.(H.R.JOINT)'.
**26.07.1990** Service defect: 'UN - AUXILLARY MACHINES - BROKEN BOLT - AUX/GEN REMOVED TO CARRY/OUT

REPAIRS. - ' / ' REPLACED & ALIGNMENT COMPLETED.'.

**26.07.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING COOLING WATER - VENT PIPE REPAIRED.'.

**26.07.1990** Service defect: 'UN - ENGINE - ALIGNMENT CHECK - ENGN & ALTN ALIGNMENT COMPLETED. - ENGN & ALTN BOLTS RE-TORQUED.'.

**26.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR - BOLTS RE-TORQUED,ALIGNMENT CHECK COMPLETED.'.

**26.07.1990** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION REPAIRS - O/SIDE REAR CONTROL PIPES REPAIRED.'.

**30.07.1990** Service defect: 'TS - ALTERNATOR - SLIP/RINGS HIGH RESISTANT - CONNECTION ON SLIP/RINGS REP'D. (NO A.C.) - A.C. CHECKED OK.'.

**30.07.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**04.08.1990** Service defect: 'UN - BATTERY MAINTENANCE - DAMAGED CASES - 2 NO.STARTING BATTERIES REPLACED.'.

**09.08.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - UNABLE TO PROFILE - WHEELS TO RUN/OUT A/C FLANGES(8)&THIN.'.

**09.08.1990** Service defect: 'TS - CONTACTOR INTERLOCKS - POWER LOSS - ELD INT/LOCKS L-M CLEANED.'.

**01.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(1,2&3),4 BAGS(4,5&6).'.

**24.09.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.4 T/MOTOR COMM.CLEANED/UP.'.

**28.09.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**28.09.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - SHUNT REPLACED,REGULATION CHECKED OK.'.

**31.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**08.11.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(2),5 BAGS(1,4,5&6),6 BAGS(3).'.

**08.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - WHEELS - TO MONITOR.'.

**08.11.1990** Service defect: 'B - WHEELS TO MONITOR A/C R.3 WHEEL 38MM & 8.5 FLANGE.'.

**30.11.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEEL - NO.3 WHEEL SET CHANGED/OUT. (FLANGE U/S)'.

**09.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**22.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**07.01.1991** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(3),5 BAGS(1),6 BAGS(2,5&6),7 BAGS(4'.

**07.01.1991** Service defect: 'A - TO BE PROFILED A/C L.1&4 FLANGES (8). (8/1)'.

**08.01.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - WIRING IN CONTROLLER REPLACED.'.

**25.01.1991** Service defect: 'UN - BOGIE - SLACK ADJUSTER REPLACED A/C WORN'.

**30.01.1991** Service defect: 'UN - LUBRICATING SYSTEM - MICHIANA TANK WELDED.*'.

**01.03.1991** Service defect: 'E - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEEL - 'A'BOGIE EX.AL18 INSTALLED.(AL108) (NO.1 WHEEL 9+)'.

**01.03.1991** Service defect: 'E - OTHER BODY REPAIRS - FLANGE LUBRICATOR - HOSES & EQUIPTMENT REMOVED.'.

**13.03.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN CHAIN - H/BRAKE CHAIN RE-LINKED,OPERATION OK. - (SPLIT LINK FITTED)'.

**16.04.1991** Service defect: 'TS - CONTACTOR INTERLOCKS - POWER LOSS & DYNAMIC LOSS - ELD & ML INT/LOCKS CLEANED/UP. - (INT/LOCKS HIGH RESISTANT)'.

**24.04.1991** Service defect: 'TS - NO FAULT FOUND - TRIAL RUN,A/C POWER SURGE,NO FAULT FOUND.'.

**08.05.1991** Service defect: 'A - TOILET REMOVED,A/C LEAKING,CRACKED BOWL.NIL STOCK'.

**08.05.1991** Service defect: 'A - MPC.9/5.'.

**23.05.1991** Service defect: 'TS - BOGIE - SUPPORT FAILURE - BOGIES EX.CL10 INSTALLED. (NO.6 WHEEL) - (FAILED TRAIN NO.5PA1)'.

**23.05.1991** Service defect: 'TS - ENGINE - BEARING INSPECTION - MAIN BEARING & CON/ROD BEARINGS OK. (MIBA BEARINGS)'.

**01.07.1991** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - NO.11 LINER REPLACED A/C SPLIT.'.

**05.07.1991** Service defect: 'B - BOGIE - NO 5 GEARCASE TIGHTENED.'.

**05.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - R1 & L1 SANDER AIR HOSES REPLACED, A/C LEAKING.'.

**05.07.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END MAIN RES HOSE REPLACED.'.

**05.07.1991** Service defect: 'B - DYN BRAKE FANS TO MONITOR.5/7.'.

**01.08.1991** Service defect: 'TS - WHEELSLIP - WHEEL/SLIP - NO.1 T/MOTOR REPLACED.'.

**16.08.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**27.08.1991** Service defect: 'A - GENERAL - OBS/SIDE WINDSCREEN WIPER ASSEMBLY LUBRICATED.'.

**27.08.1991** Service defect: 'A - RADIATOR/PRESSURISING FAN - PRESSURSING FAN MOTOR FUSES REPLACED.'.

**27.08.1991** Service defect: 'A - DYN/BRAKE FANS TO MONITOR.27/8.'.

**19.09.1991** Service defect: 'UN - PRESSURISING FAN REMOVED FOR REPAIRS.19/9.'.

**17.10.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L3 & L5 WICKS & OIL CHANGED.'.

**18.12.1991** Service defect: 'A - OTHER BODY REPAIRS - D/SIDE & OBS/SIDE MIRROR REPLACED,A/C BROKEN.'.

**18.12.1991** Service defect: 'A - RADIATOR/PRESSURISING FAN - PRESSURISING FAN FITTED.'.

**18.12.1991** Service defect: 'A - TRACTION MOTOR - BRUSH HOLDER NO 4 T/MOTOR CHANGED,A/C LOOSE HAMMERS.'.

**10.01.1992** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - DYNAMIC BRAKE REGULATOR CHECKED OK.'.

**10.01.1992** Service defect: 'UN - WHEELSLIP - WHEELSLIP RELAYS CHECKED OK.'.

**28.01.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - NOT PULLING AMPS.- L-M INT/LOCKS ON ELD CLEANED/UP.(DIRTY) NO

DYNAMIC BRAKE - TESTED IN DYNAMIC & POWER OK.'.

**28.01.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BLOWN FUSES - PRESSURISING FAN FUSES REPLACED. - FAN MEGGERED OK.'.

**28.02.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - NOISEY TURBO LUBE PUMP REPAIRED OK.'.

**28.02.1992** Service defect: 'B - GENERAL - REVERSE SANDERS REPAIRED OK.'.

**28.02.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - NO1 TEST COCK REPLACED A/C LEAKING.'.

**28.02.1992** Service defect: 'B - TRACTION MOTOR - NO3 T/MOTOR B/HOLDER HAD BRUSH JAMMED.REPAIRED OK. NO2 T/MOTOR CHAIN HOLDING CABLE CLEATS REPLACED OK.'.

**10.03.1992** Service defect: 'WT - GENERAL - WHEEL TURNING MACHINE.'.

**28.05.1992** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - POWER SWITCH ON STAND REPLACED,A/C STICKING ON.'.

**28.05.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - ALARM BELL ( HOT ENG,ENG PROT,ALT FAIL.)REPLACED,A/C NOT WORKING.'.

**28.05.1992** Service defect: 'A - ENGINE - MIBA BEARING INSPECTION & REPLACEMENT COMPLETED.NO 6 MAIN BEARING REMOVED & REFITTED,CHECKED OK.NO 2 MAIN REMOVED &'.

**04.06.1992** Service defect: 'TS - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED & TESTED OK.'.

**04.06.1992** Service defect: 'TS - GENERAL LOSS OF POWER - ELD CONTACT TIPS M-L CHANGED,A/C NO POWER.'.

**29.06.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BATTERY CABLES RE-INSULATED.A/C RUBBED THROUGH.'.

**09.07.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED A/C U/S.TESTED OK.'.

**17.08.1992** Service defect: 'WT - COOLING SYSTEM - COOLANT CHANGED.'.

**17.08.1992** Service defect: 'WT - ELECTRICAL MISCELLANEOUS BURNT WIRING - 'B'END D/SIDE CLASS LIGHT REPAIRED A/C EARTH FAULT.BURNT WIRING.'.

**17.08.1992** Service defect: 'WT - DYNAMIC BRAKE MOTORS TO WATCH A/C ABNORMAL'.

**17.08.1992** Service defect: 'WT - COMMUTATOR WEAR.14/8/19.'.

**06.11.1992** Service defect: 'A - TRACTION MOTOR - TOP B/HOLDER CHANGED IN NO 5 T/MOTOR.'.

**09.11.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 4 T/MOTOR FLASHED, 2 BRUSHES REPLACED, V RING CLEANED. OTHER T/M'S + ALTERNATER CHECKED OK.'.

**20.11.1992** Service defect: 'TS - BOGIE - BOGIE CHANGE COMPLETED. BOGIES EX AL19. DIRECTION TESTED OK.'.

**03.12.1992** Service defect: 'TS - GENERAL LOSS OF POWER - NO POWER - ALL POWER EXCITATION SYSTEMS CHECKED OK. LOCO TESTED OK. M.V. FUNCTIONS OK - NO FAULT EVIDENT.'.

**26.12.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - PIGTAIL BOLTS MISSING & LOOSE PIGTAILS CAUSING F/OVERS, REPAIRED.'.

**15.01.1993** Service defect: 'B - ENGINE - ALL ENGINE MOUNT BOLTS TIGHTENED.'.

**15.01.1993** Service defect: 'B - FUEL SYSTEM INJECTORS - NO9 INJECTOR CHANGED A/C OF STICKING.'.

**15.01.1993** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - ALL COMPRESSOR MOUNT BOLTS TIGHTENED.'.

**15.01.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER PRESSURE ADJUSTED.'.

**02.04.1993** Service defect: 'A - AUXILLARY MACHINES - AUX GEN MOUNTING BOLT REPLACED.'.

**02.04.1993** Service defect: 'A - BOGIE - R1 PEDESTAL LINER CHANGED,A/C CRACKED. BRAKE STRAP REPAIRED ON R6,A/C WORN SLIDE.'.

**02.04.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - CHANGED BOTTOM BRUSH HOLDER NO 2 T/M,A/C LOOSE HAMMER.'.

**06.04.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 4 WHEELSET REPLACED,A/C SHARP FLANGE. LHS AXLE BEARING REPLACED,A/C PITTED & SCORED. NO 4 W/SET THRUST RUBBERS'.

**30.04.1993** Service defect: 'TS - ALTERNATOR - GR'S. ALTERNATOR BOXED UP. NO EARTHS FOUND.'.

**30.04.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 4 T/MOTOR WASHED & CLEANED, A/C GROUND RELAY. ALL OTHER T/M'S OK.'.

**19.05.1993** Service defect: 'TS - TRACTION MOTOR - NUMBER THREE TRACTION MOTOR CHANGED A/C EARTH ON INTERPOLES.'.

**03.06.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOOSE TERMINAL ON GPT F2 UNIT FOR RPS REPAIRED.'.

**03.06.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NO.2 T/M REPLACED A/C EARTH ON INTERPOLES.'.

**03.06.1993** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO.4 T/M HAD A FLASH-OVER. THE EDGE OF THE COMMUTATOR CLEANED AND CHECKED OK.'.

### CL 16

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**13.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - BLOCKED SANDERS - SANDERS CLEARED & REAR SANDER ISOLATING - COCK CUT BACK IN.'.

**19.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FLUCTUATING - ROLL PIN FITTED TO SPEEDO DRIVE. - (ROLL PIN MISSING ON SPEEDO DRIVE)'.

**01.08.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO.3&6 T/MOTORS REPLACED.(EARTH/FAULTS)'.

**04.08.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - SLIGHT FLASH ON NO 1&5 TM'S.CLEANED.'.

**30.08.1989** Service defect: 'UN - ALTERNATOR - D14- REAR CONNECTIONS BURNT OUT ON ALTERNATOR.'.

**04.09.1989** Service defect: 'UN - OTHER BODY REPAIRS -

PORT HOLE WINDOW ON D/S REPLACED A/C BROKEN.'.

**08.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - O/S PORT HOLE WINDOW REPLACED A/C BROKEN.'.

**19.09.1989** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&6),5 BAGS(4&5),8 BAGS(3).'.

**19.09.1989** Service defect: 'B - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL AIR FILTERS INSTALLED.'.

**25.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DROPPING POWER -'.

**25.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN WINDOW - REAR DOOR INDOW REPLACED.'.

**04.10.1989** Service defect: 'UN - VIGILANCE - VIGILANCE OPERATION - CHECKED OK & RE-SEALED.'.

**12.10.1989** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEEL - NO.2 WHEEL SET CHANGED/OUT. - WICK CHECKED OK.'.

**12.10.1989** Service defect: 'SW - LUBRICATING SYSTEM - HIGH LEAD - MAIN BEARINGS 5,6&9 DROPPED/CHECKED/SCRAPED - & REPLACED.(SLIGHT WEAR & PICK/UP)'.

**18.10.1989** Service defect: 'TS - DYNAMIC BRAKE - MICRO SWITCH ON CONTROLLER REPLACED A/C FAULTY.'.

**28.10.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 4 BAGS ADDED TO NO.1,2,3.GEAR CASES. 6 BAGS ADDED TO NO.4,5.GEAR CASES.NO.6 GEAR CASE OK.'.

**04.11.1989** Service defect: 'UN - HAULED TO PT AUGUSTA'.

**06.11.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FUEL PRIME / ENGINE START SWITCH REPLACED A/C UNABLE TO START LOCO.'.

**09.11.1989** Service defect: 'A - LUBRICATING SYSTEM OIL COOLER - OIL COOLER 'O' RING REPLACED A/C LEAKING OIL.'.

**30.11.1989** Service defect: 'UN - BOGIE - NO1,2,3 GEARCASES REFILLED A/C DRY.'.

**14.12.1989** Service defect: 'TS - ENGINE - CRANK/CASE OPERATION - NO.12 PISTON REPLACED.(CRACKED)'.

**04.01.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - * LOCAL CONTROL,LIGHT & HEADLIGHT C/BREAKER WIRING *'.

**04.01.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - ELECT.CABINET FIRE - WIRING TO C/BREAKERS COMPLETED. - IDAC INSTALLED.(TAKEN FROM CL14)'.

**04.01.1990** Service defect: 'TS - ENGINE - OIL IN STACKS - LOCO LOAD/TEST COMPLETED. (EXCESS IDLING) - LOAD/TESTED TO BURN/OUT OIL BUILD/UP.'.

**04.01.1990** Service defect: 'TS - ENGINE WATER LEAK - 'Y'PIECE CRACKED - WATER MANIFOLD REPLACED.'.

**04.01.1990** Service defect: 'TS - VIGILANCE - VIGIANCE FAULT - STICK/IN RELAY REPLACED. (CUT/OUT) - OPERATION CHECKED OK.'.

**09.01.1990** Service defect: 'C - FULL PROFILED REQUIRED A/C FLANGE CONDITION.(9/1)'.

**11.01.1990** Service defect: 'WT - MED BRAKE ADJUST'.

**14.01.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - OUT ON 'G'GAUGE - NO.1 WHEEL REPLACED. - NO.1 WICK & GEAR/CASE LUBE CHECK OK.'.

**30.01.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - TRAIN/LINE FAULT - PINS 22&14 CORRECTED.(14 PIN B.C.P.) - CR49 REPLACED.(PARTLY SHORTED)'.

**30.01.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE CHECK - TA,TB&TC THERMOSTAT SETTINGS CHECKED OK. - E.T.S.REPLACED.(LOW SETTING)'.

**30.01.1990** Service defect: 'UN - THERMOSTAT OPERATION TO CHECK.(HOT ENGINES)(30/1)'.

**20.02.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK -'.

**20.02.1990** Service defect: 'TS - EXHAUST - BLOWN GASKET - REAR STACK GASKET & SET/SCREWS REPLACED.'.

**26.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - NO POWER - H.R. JOINT PA 71 WIRE ON M1/2 CONTACTOR REPAIRED.'.

**16.03.1990** Service defect: 'TS - BOGIE - DRIVE GEAR FAILURE - BOGIES CHANGED A/C NO.3 DRIVE GEAR U/S.'.

**02.05.1990** Service defect: 'SW - ENGINE - ENGINE EX AL 24 SERIAL NO 75-F1-1141 CONVERTED TO E3B AND INSTALLED INTO CL 16.'.

**02.05.1990** Service defect: 'SW - ENGINE - FITTED. FOUR NEW CAMSHAFTS 2 FORK RODS AND 1 BLADE ROD FITTED. NEW LASH ADJUSTERS, VALVE BRIDGES AND CAM ROLLERS'.

**02.05.1990** Service defect: 'SW - ENGINE - FITTED. NEW GEAR TYPE DAMPER INSTALLED. LOWER LINER INSERTS BIG END BEARINGS AND CAMSHAFT BEARINGS RENEWED. NO 2 IDLER'.

**02.05.1990** Service defect: 'SW - ENGINE - TURBO GEAR USED. 16 NEW INJECTORS KORODY COLYER. GOVERNOR CONVERTED TO BL TYPE. MAIN BEARINGS RENEWED.'.

**02.05.1990** Service defect: 'SW - ENGINE - WATER PUMPS O/HAULED. OIL PUMPS RECONDITIONED. NEW HEADS- LINERS AND PISTONS 2 NEW CARRIERS AND 14 RECONDITIONED ONES'.

**20.05.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**20.05.1990** Service defect: 'UN - TRACTION MOTOR - NO.6 T/MOTOR NOISY - 6 NO.BRUSHES REPLACED.(NOISE CEASED) TRACK TESTED - LOCO NOT FAULTED.'.

**10.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**08.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 4 BAGS ADDED TO EACH CASE.'.

**13.07.1990** Service defect: 'TS - COOLING SYSTEM RADIATOR - LOSING COOLING WATER - D/SIDE NO.1 RADIATOR REPLACED.'.

**05.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**10.08.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT - ETS PLUG & WIRING REPLACED.'.

**28.08.1990** Service defect: 'E - BOGIE - LUBRICANT CHECK - 4 BAGS(1),5 BAGS(2,3,4&6),6 BAGS(5).'.

**28.08.1990** Service defect: 'E - MECHANICAL EQUIPMENT COMPRESSOR - CRACKED MOUNTS - COMPRESSOR MOUNTS RE-WELDED.'.

**08.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**19.09.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - O/SIDE NO.2 RADIATOR REPLACED.'.

**28.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK

- 6 BAGS ADDED TO EACH G/CASE.'.

**11.11.1990** Service defect: 'UN - BOGIE - DERAILMENT CHECK - NO DAMAGE EVIDENT.'.

**02.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - SEVERAL BLOCKS REPLACED & BRAKES ADJUSTED.'.

**05.12.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS(4),6 BAGS(2,3,5&6),7 BAGS(1).'.

**30.01.1991** Service defect: 'UN - BROKEN VALVE - # 12 HEAD CHANGED A/C BROKEN VALVE.'.

**06.02.1991** Service defect: 'WT - COOLING SYSTEM OVERHEATING - HOT ENGINE LIGHT ON,RADIATOR FANS CHECKED OKAY'.

**13.02.1991** Service defect: 'TS - OVERHEATING - HOT ENGINE THERMOSTAT REPLACED A/C HOT ENGINE ALARMS BEFORE FANS OPERATE.*'.

**24.02.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1 T/MOTOR WASHED OUT & CLEANED/UP. (LOOSE PIG/TAILS) - 14 NO.BRUSHES REPLACED NO.1 T/MOTOR.'.

**24.02.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - - ALTN.FUSES OK,CABLES OK,MEGGERED 1M/OHM.'.

**28.03.1991** Service defect: 'C - M/POWER NOT WORKING IN FOR.R3 BRAKE CYLD.LEAKING.'.

**28.03.1991** Service defect: 'C - L1 RADIATOR LEAKING.'.

**24.04.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - TRAIN/LINE FAULT - WIRING BACK MU BOARD REP'D.(HIGH RESIST) MANUAL POWER - REPAIRED.'.

**29.04.1991** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR LEAK - D/SIDE NO.1 RADIATOR CHANGED/OUT.'.

**29.04.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NEG.TEST/JACK REPLACED A/C SHORTED.'.

**10.05.1991** Service defect: 'TS - ALTERNATOR - ALTN.FAILURE - DIODE IN CR48 IN D14 CIRCUIT REPLACED. - (DIODE BLOWN)'.

**04.06.1991** Service defect: 'A - STARTER MOTOR - STARTER MOTOR SOLENOID CABLE RE-LUGGED,(BOTTOM MOTOR).'.

**04.06.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - 39 T/MOTOR BRUSHES CHANGED,13 FRONT 26 REAR.'.

**25.06.1991** Service defect: 'UN - BATTERY MAINTENANCE - WOULDN'T START - BATTERIES & CHARGE RATE CHECKED OK.'.

**25.06.1991** Service defect: 'UN - LUBRICATING SYSTEM - LOW OIL SHUT/DOWN - MICHIANA & TURBO FILTERS REPLACED.'.

**17.07.1991** Service defect: 'UN - GENERAL - F/MAN'S SLIDING WINDOW REPAIRED.'.

**30.07.1991** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FAULTY PULL/METER - REPLACED.'.

**15.08.1991** Service defect: 'B - ALTERNATOR - ALT SLIP RING BRUSH HOLDERS ADJUSTED & RINGS CLEANED, A/C PITTED.NEW BRUSHES INSTALLED.'.

**15.08.1991** Service defect: 'B - GENERAL - D/SIDE REAR VIEW MIRROR REPLACED.'.

**13.09.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - CR17 RESISTOR REPLACED.(BLOWN) - TERMINAL BLOCK ON D14 REPLACED.(HIGH RESISTANT)'.

**13.09.1991** Service defect: 'TS - ENGINE - * FAILED TRAIN NO.3PS6 *'.

**27.09.1991** Service defect: 'UN - BOGIE - AIR DUCTS - NO.2&5 T/MOTOR AIR/DUCTS REPAIRED.'.

**27.09.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - SOME BRUSHES REPLACED IN NO.1&6 T/MOTORS. - BROKEN BRUSHES & PIG/TAILS BLOWN NO.1 MOTOR.'.

**30.09.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY - T/MTRS MEGGERED,NO.5 T/MTR INT/POLE TO FRAME. - * BOOKED ON SCHEDULED WORK FOR REPAIRS *'.

**30.09.1991** Service defect: 'TS - RETURN TO MPC FOR NO.5 T/MOTOR CHANGE.'.

**01.10.1991** Service defect: 'UN - H/LIGHT REPAIRS TO BE FINISHED.'.

**01.11.1991** Service defect: 'A - BATTERY MAINTENANCE - LOCO JUMP STARTED. CHECKED O/K.'.

**26.11.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 5 T/MOTOR REPLACED,A/C GR'S.IN-67-C-C156,OUT-69-E1-1004.'.

**18.12.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHANGED.'.

**18.12.1991** Service defect: 'UN - REVERSER - REVERSE REPAIRS DONE.'.

**16.01.1992** Service defect: 'D - BOGIE MAINTENANCE - WICKS - 4 WICKS REPLACED,L6 R6 R4 L2.'.

**16.01.1992** Service defect: 'D - MECHANICAL EQUIPMENT SANDING GEAR - R3 SAND HOSE REPLACED.'.

**21.01.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES REPLACED,A/C U/S.'.

**09.03.1992** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - BCP DIODE CR49A BURNT OUT-REPLACED OK.'.

**09.03.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO AIR FILTER REPLACED.'.

**09.03.1992** Service defect: 'TS - TRACTION MOTOR - NO5 TRACTION MOTOR REPLACED.'.

**19.03.1992** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - H/LIGHT WIRING REPAIRED.-A/C HOT LUGS.'.

**19.03.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - TURBO LUBE PUMP CONDUIT REPLACED.-A/C BURNT WIRING.'.

**19.03.1992** Service defect: 'TS - RADIATOR/PRESSURISING FAN - NO.1 RAD. FAN ROTATING IN OPPOSITE DIRECTION.-DIRECTION CHANGED.'.

**19.03.1992** Service defect: 'TS - TOILET SHUTE MISSING.-NOT REPLACED.'.

**10.04.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - COMMUTATOR BRUSHED OUT,A/C SLIGHT COPPER DRAG.V/RING PAINTEDA/C BURNT.BRUSHHOLDERS BACKED OFF,A/C TOO CLOSE.P=10OHMS.'.

**10.04.1992** Service defect: 'TS - RADIATOR/PRESSURISING FAN - PRESS/FAN FUSES REPLACED,A/C BLOWN,FAN TESTED OK.'.

**14.04.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - LOCO SENT ON TRIAL RUN,FAULTLESS PERFORMANCE,PULLED 1200 - 1300 AMPS ALL THE WAY,A/C GR'S.'.

**03.06.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - FUEL PUMP CONDUIT REPLACED.'.

**03.06.1992** Service defect: 'A - GENERAL - ENG ROOM DOOR REPAIRED.'.
**03.06.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR ADJUSTED,GOVERNOR CONTROL PIPE TO COMPRESSOR REPAIRED.'.
**03.06.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE GASKET REPLACED,135 LB SAFETY VALVE REPLACED.'.
**03.06.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED.'.
**03.06.1992** Service defect: 'A - NO6 T/M TO MONITOR, A/C BROKEN BRUSHES & PIGTAILS.'.
**03.06.1992** Service defect: 'A - 3/6.'.
**13.07.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - M45 CONTACTOR REPLACED A/C U/S.-M45 CONTACTOR TAKEN FROM CL2.'.
**14.08.1992** Service defect: 'TS - ELECTRICAL MISC. JUMPER CABLES - JUMPER CABLE FAULT RECTIFIED. A/C LOCO LOST POWER.'.
**26.08.1992** Service defect: 'B - BATTERY MAINTENANCE - BATTERIES REPACKED A/C MOVING IN BATTERY BOX .'.
**26.08.1992** Service defect: 'B - BOGIE - R6 PEDESTAL LINER REPLACED A/C WORN.'.
**26.08.1992** Service defect: 'B - COOLING SYSTEM - COOLANT REPLACED AND SYSTEM FLUSHED.'.
**26.08.1992** Service defect: 'B - COOLING SYSTEM RADIATOR - NO.3 RADIATOR REPLACED A/C CORE LEAKING.'.
**26.08.1992** Service defect: 'B - ELECT - RECEPTACLES/INTER CAR COUPLINGS - NEGATIVE FEED MISSING ON 'A' END LEFT JUMPER RECEPTACLE. NEGATIVE FEED REPLACED.'.
**26.08.1992** Service defect: 'B - ELECT. MISC. - GAUGES & INSTRUMENTS - BATTERY CHARGING AMMETER REPLACED A/C U/S.'.
**26.08.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 'TA' THERMOSTAT REPLACED A/C PLUG U/S.'.
**26.08.1992** Service defect: 'B - OTHER BODY REPAIRS - BOTH MIRRORS REPLACED.'.
**26.08.1992** Service defect: 'B - RADIATOR/PRESSURISING FAN - RADIATOR FAN CONTACTOR 3-4 NOT PICKING UP - THERMOSTATS REWIRED AND CLEANED .'.
**26.08.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 T/M BRUSH HOLDERS REPLACED IN NO.2 T/M.'.
**09.09.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - T/M INSPECTED OK. NO'S 2 AND 5 FOUND ABIT DIRTY. OLD PIG TAIL FOUND FLOATING AROUND IN NO.6.'.
**09.09.1992** Service defect: 'UN - INSULATION WORN - MAIN CABLES FROM ALTERNATOR RE-INSULATED A/C STARTED RUBBING THROUGH. WIRES RUNNING ACROSS TOP OF 'IDAC' RUBBING'.
**09.09.1992** Service defect: 'UN - INSULATION WORN - THROUGH. ALSO RE-INSULATED.'.
**19.10.1992** Service defect: 'TS - ALTERNATOR - FUSES REPLACED IN ALTERNATOR, A/C BLOWN. LOCO MEGGERED TO .9MEG.'.
**28.10.1992** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.'.
**28.10.1992** Service defect: 'SW - WHEELSLIP - W/SLIP, NO 2 T/MOTOR CABLES RECONNECTED CORRECT WAY. LOCO MOVEMENT TESTED OK.'.
**28.11.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - BRUSHES REPLACED IN NO 1,2 & 3 T/MOTORS,A/C PULLED PIGTAILS & SHATTERED BRUSHES CAUSING GR'S.'.
**02.12.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - NOS L1,L2 & L3 WICKS REPLACED,A/C DIRTY.'.

**CL 17**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**06.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - AIR LEAK - M/RES.COCK(O/SIDE FRONT)REPLACED.'.
**13.07.1989** Service defect: 'SW - FUEL SYSTEM LINES - BURRED NIPPLE - NO.6 FUEL LINE TO INJECTOR REPLACED.'.
**13.07.1989** Service defect: 'SW - LUBRICATING SYSTEM - FUEL DILUTION - ENG/OIL & FILTERS CHANGED.'.
**16.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**16.07.1989** Service defect: 'TW - NO FAULT FOUND - USING COOLING WATER - LOCO CHECKED,NO LEAK EVIDENT.'.
**19.07.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - D/SIDE VENT PIPE REPAIRED.'.
**23.07.1989** Service defect: 'UN - NO FAULT FOUND - LOST POWER - JUMPER/CABLE & RECEPTICLES CHECKED/TESTED OK.'.
**25.07.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOOSE OLIVES ON PIPE - D/SIDE VENT PIPE REPLACED. TO RADIATORS.'.
**31.07.1989** Service defect: 'UN - BLOCKED FILTERS - CLOGGED FILTERS - NEW SET OF AIR/INTAKE FILTERS INSTALLED.'.
**31.07.1989** Service defect: 'UN - FUEL SYSTEM - FUEL IN BY/PASS - FILTERS CHANGED.'.
**31.07.1989** Service defect: 'UN - NO FAULT FOUND - DYNAMIC FAULT - GRIDS/CABLES CHECKED,OPERATION CHECKED OK. - LOCO NOT FAULTED.'.
**17.08.1989** Service defect: 'SW - ENGINE - FUEL TEST - ENG ON LOAD BANK FOR FUEL TEST INCOMPLETED A/C COMPUTER PROBLEMS EXPERIENCED.'.
**02.09.1989** Service defect: 'UN - BOGIE - LUBE CHECK - 4 BAGS CRATER ADDED TO EACH GEAR CASE.'.
**15.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - FILTER MOD.- MESH REMOVED & STEEL FILTERS INSTALLED.'.
**08.10.1989** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC - MICRO/SWITCH REPLACED & C/BREAKER RE-SET.'.
**08.10.1989** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - PRESSURE SWITCH REPLACED & TIMING ADJUSTED'.
**19.10.1989** Service defect: 'SW - FUEL SYSTEM - FUEL TEST - COMPLETED.'.
**23.10.1989** Service defect: 'SW - LUBRICATING SYSTEM - LUBE CHECK - 4BAGS ADDED TO EACH GEAR CASE.'.
**16.11.1989** Service defect: 'UN - FUEL SYSTEM - FUEL TESTS COMPLETED.'.
**26.11.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK

- 6 BAGS ADDED TO EACH G/CASE.'.

**26.11.1989** Service defect: 'TW - FUEL SYSTEM - FUEL IN BY/PASS - FUEL FILTERS REPLACED.'.

**06.12.1989** Service defect: 'UN - FUEL SYSTEM - FUEL TESTING - COMPLETED.'.

**13.12.1989** Service defect: 'UN - FUEL SYSTEM - FUEL TESTING - COMPLETED.'.

**30.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 8 BAGS ADDED TO EACH G/CASE.'.

**18.01.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.CHECKED OK.'.

**19.01.1990** Service defect: 'UN - NO FAULT FOUND - DYNAMIC - OPERATION CHECKED OK.'.

**19.01.1990** Service defect: 'UN - OTHER BODY REPAIRS - CRACKED WIND/SCREENS - BOTH WIND/SCREENS REPLACED.'.

**12.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS (4,5&6),OTHERS OK.'.

**30.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,4&5),5 BAGS(2,3&6).'.

**30.03.1990** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDER PIPE - R.2 REPLACED.'.

**14.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS(1&4),8 BAGS(2,3,5&6)'.

**19.04.1990** Service defect: 'WT - BRAKES TO ADJUST'.

**01.05.1990** Service defect: 'TW - BOGIE - LAGS CANT CHECK - 5 BAGS(1&5),8 B(2,3,4&6).'.

**06.05.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE FAULTY - PULL METER REPLACED.'.

**06.05.1990** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT - INTER/LOCKS CLEANED/UP,TESTED OK.'.

**18.06.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - NEW SET OF RESILIANT RUBBERS INSTALLED. AXLE END NO.3 - CLEANED/UP & NEW THRUST BLOCK INSTALLED.'.

**23.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**23.06.1990** Service defect: 'TW - OTHER BODY REPAIRS - HEATER FAULT - ELEMENTS IN D/SIDE HEATER REPLACED.'.

**04.07.1990** Service defect: 'CA - STARTER MOTOR - STARTER MOTORS REPLACED A/C FAULTY TERMINAL STUD.'.

**04.07.1990** Service defect: 'CA - WHEELSLIP - W/SLIP & HUNTING - WS3 I/LOCKS(C&D) CLEANED A/C DIRTY. LOAD BANKED O.K.'.

**08.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 4 BAGS ADDED TO EACH CASE.'.

**08.07.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEAD LIGHT RESISTOR R6B REPLACED A/C OPEN CIRCUIT.'.

**15.07.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH CASE.'.

**19.08.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**19.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE - CABLE & DRIVE GEAR REPLACED.(EX.CL7) MISSING. - (BOLTS SHEARED OFF ON HOUSING)'.

**04.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FLUCTUATING - SPEEDO MECHANISM REPLACED.'.

**09.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 7 BAGS ADDED TO EACH G/CASE.'.

**19.09.1990** Service defect: 'UN - BOGIE - DERAILMENT REPAIRS - NO.5 BOTTOM G/CASE REPLACED. (DERAILED TARCOOLA)- D/SIDE NO.4 SAND/BOX BRACKET REPLACED.'.

**19.09.1990** Service defect: 'UN - TO BE LIFTED A/C LOCATING PADS U/S. (19/9)'.

**20.09.1990** Service defect: 'SW - BOGIE - DAMAGED PADS - 4 NO.CLEARANCE PADS REPLACED. - (DAMAGED IN DERAILMENT AT TARCOOLA)'.

**24.09.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(1),5 BAGS(2,4,5&6),6 BAGS(3).'.

**24.09.1990** Service defect: 'B - TO BE PROFILED A/C L.6 FLANGE (8). (24/9)'.

**09.11.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2,5&6),6 BAGS(3&4).'.

**09.11.1990** Service defect: 'UN - ENGINE - HUNTING - FUEL FILTERS CHANGED. - ELECTRICAL CIRCUIT REPAIRED,LOAD/TEST COMPLETED.'.

**23.11.1990** Service defect: 'UN - BLOCKED FILTERS - HUNTING - SPIN/ON FUEL FILTERS & MAIN FILTER REPLACED.'.

**02.12.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 7 BAGS ADDED TO EACH G/CASE.'.

**02.12.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - NO COMPRESSION - NO.7 HEAD REPLACED.'.

**02.12.1990** Service defect: 'UN - STARTER MOTOR - MOTOR BURNT/OUT - BOTTOM STARTER/MOTOR REPLACED. (JAMMED IN)'.

**06.12.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 5 BAGS(2&5),6 BAGS(1,3,4&6).'.

**06.12.1990** Service defect: 'TS - CONTACTOR WELDED - SMOKE FROM ELECT.CABINET - 'B6'CONTACTOR REPLACED.(WELDED) - CONTROL WIRING REPAIRED.'.

**15.12.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - NO START - G.S.A.CONTACTOR REPAIRED.'.

**28.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. * GEAR WEAR * - NO.2&3 DRIVE GEARS TO MONITOR.'.

**28.12.1990** Service defect: 'TW - NO.2&3 DRIVE GEARS TO MONITOR A/C WEAR. (28/12)'.

**02.01.1991** Service defect: 'UN - BOGIE - NO 1 GEARCASE FILLER CAP REPLACED'.

**02.01.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BRUSHES REPLACED IN NO 2&4 TRACTION MOTORS A/C LOOSE PIGTAILS'.

**02.01.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 5 TRACTION MOTOR TOP BRUSH HOLDER BOLT FALLEN OUT REPLACED AND NO4 & 5 TRACTION MOTORS PAINTED.'.

**10.01.1991** Service defect: 'UN - ALTERNATOR - DIODE BANK TO FRAME - R/H DIODE BANK REMOVED,WASHED/OUT, - BANK INSTALLED, MEGGERED OK.'.

**10.01.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTOR WELDED - P2 CONTACTOR REPLACED.'.

**10.01.1991** Service defect: 'UN - TRACTION MOTOR EARTH - EARTH FAULT - NO.4&5 T/MOTORS REPLACED.(INT/POLES TO FRAME)'.

**06.02.1991** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO/CHARGER - REPLACED.'.

**10.02.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - GR'S IN NO4 TM A/C BRUSHES DID NOT HAVE HAMMERS DOWN ON THEM3-10 BRUSHES CHANGED IN ALL.'.
**26.02.1991** Service defect: 'TS - BOGIE - R3 SLACK ADJUSTER REPLACED.'.
**26.02.1991** Service defect: 'TS - TRACTION MOTOR EARTH - NO 5 TM CHANGED,IN-75H1-1271 OUT-81H1-1091.A/C EARTH ON AA LEAD INTERPOLES.'.
**08.03.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS - FLASHOVER IN N02,4,&6 T/MOTORS CLEANED. BRUSHES REPLACED A/C PIGTAILS AND SHORT.'.
**17.04.1991** Service defect: 'A - GENERAL - HOT PLATE ELEMENT CHANGED.'.
**17.04.1991** Service defect: 'A - TRACTION MOTOR FLASHOVER - FLASHOVER,NO 4 T/M CLEANED UP.'.
**10.05.1991** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - BURNT/OUT GRIDS - O/S & D/S NO.1 GRIDS REPLACED. DYNAMIC FAN - REPLACED A/C WIRES BURNT OFF ON HEAT SHIELD.'.
**05.06.1991** Service defect: 'TS - AUXILLARY MACHINES - AUX/GEN.NOISY - FRONT BEARING ON THE WAY/OUT. - UNIT REPLACED. UNIT NO.8681-L-50.'.
**05.06.1991** Service defect: 'TS - BOGIE - LUBE CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**05.06.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSH/HOLDERS IN NO.6 T/MOTOR REPLACED. - (BRUSH/HOLDERS BLOWN APART,SHORT BRUSHES'.
**05.06.1991** Service defect: 'TS - TRACTION MOTOR BRUSHES - BROKEN PIG/TAILS - BRUSHES REPLACED IN NO.2,3,4&5 T/MOTORS.'.
**22.06.1991** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - COUPLER & PACKAGE REPLACED.'.
**22.06.1991** Service defect: 'B - CONTACTOR B23 TO REPLACE,NIL STOCK MPC.24/6.'.
**27.06.1991** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - R5 WICK CHANGED A/C NO PLUG IN WELL & NO OIL.(GEAR CASE SIDE).'.
**22.08.1991** Service defect: 'A - TRACTION MOTOR - NO 5 T/M BRUSH HOLDER REPLACED, A/C 2 HAMMERS NOT SECURED.'.
**03.10.1991** Service defect: 'TS - TRACTION MOTOR - NO.5 TRACTION MOTOR CHANGED.'.
**04.10.1991** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO.5 WICKS & AXLE CHECKED O/K.'.
**08.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE HOSE &TRAIN PIPE COCK REPLACED.'.
**03.11.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO.6 T/M CLEANED. BRUSHES REPLACED WHERE NECESSARY.'.
**15.11.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - T/MOTOR'S 2 & 6 FLASHED,9 BRUSHES CHANGED,A/C CRACKED,SHORT + FLOATING PIGTAILS.TOP BRUSH HOLDER N0 2 REPLACED,A/C LOOSE'.
**03.12.1991** Service defect: 'E - BOGIE - BOGIE CHANGE 'B'END COMPLETED.BOGIE IN - CL 120.T/M NO'S - 71-E1-1592.87-L1-NO1.75-H1-1403.BOGIE OUT - CL128.T/M NO'S'.
**09.12.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - TRACTION MOTOR CLEANED UP AND REPAINTED'.
**09.03.1992** Service defect: 'UN - BOGIE - BOGIE CHANGE OK.'.
**09.03.1992** Service defect: 'UN - TRACTION MOTOR - NO2 TRACTION MOTOR G/RELAYS FIXED OK.'.
**10.03.1992** Service defect: 'TS - BOGIE - NEW BOGIES FITTED.'.
**18.04.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 6 WHEELSET REPLACED,A/C AXLE BOX FAILURE.'.
**18.04.1992** Service defect: 'UN - GENERAL - OBS/SIDE MIRROR REPLACED.'.
**18.04.1992** Service defect: 'UN - TRACTION MOTOR - NO 6 T/MOTOR REPLACED.IN-65K1-1243.OUT-65H1-1177.'.
**22.04.1992** Service defect: 'TW - SEND TO MPC FOR BOGIE CHECKS'.
**13.05.1992** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - NEW SPEEDO CABLE FITTED,A/C OLD ONE BROKEN.'.
**24.07.1992** Service defect: 'UN - AUXILLARY MACHINES - DYN. FAN MOTOR REPLACED A/C THROWING SOLDER.'.
**24.07.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - 2 EXTENDED RANGE CONTACTORS REPLACED.'.
**24.07.1992** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 2 REAR GRIDS REPLACED.'.
**24.07.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING REPAIRED TO EXTENDED RANGE CONTACTORS.'.
**24.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - R5 RESISTOR ASSEMBLY REPLACED.'.
**05.08.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - S14 SERIES CONTACTOR REPLACED A/C COIL BURNT OUT.'.
**05.08.1992** Service defect: 'A - ENGINE LINER - LINERS NO.2,3,5,6,7,10,11,12,13,14 SCORED.NO.3 SCORED BADLY.NO.15 LINER PITTED.'.
**05.08.1992** Service defect: 'A - ENGINE PISTON - NO.7 PISTON SKIRT SCORED.'.
**05.08.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - AIR LEAK IN COMPRESSOR GOV. REPAIRED.'.
**08.09.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - EXTENDED RANGE CONTACTOR REPLACED.'.
**08.09.1992** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DRIVERS SIDE REAR BRAKE GRID REPLACED A/C BURNT OUT.'.
**08.09.1992** Service defect: 'TS - DYNAMIC BRAKE SETTING - DYNAMIC BRAKE SET UP. TESTED OK.'.
**08.09.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING IN GRID AREA REPAIRED.'.
**12.10.1992** Service defect: 'TS - ENGINE WATER LEAK - FAN HATCH REMOVED AND NO WATER LEAK FOUND.LOCO RUN UP OK. L.H. WATER PUMP REPLACED,A/C U/S.'.
**29.10.1992** Service defect: 'C - ENGINE WATER LEAK - SERVICE WATER LEAK REPAIRED.'.
**29.10.1992** Service defect: 'C - GENERAL - OBS/SIDE MIRROR REPLACED. OBS/SIDE WINDOW REPAIRED.'.
**29.10.1992** Service defect: 'UN - BOGIE MAINTENANCE -

WHEELS - W/SET STRIPPED. ONE SET OF BEARINGS REPLACED, A/C BADLY SCORED.’.

**29.10.1992** Service defect: ‘UN - TRACTION MOTOR - NO 3 T/MOTOR REPLACED, A/C BURNT LEAD ON BRUSH HOLDER. T/M IN- 64D-6. OUT- 65E1-1129.’.

**28.01.1993** Service defect: ‘A - DYNAMIC BRAKE - DYNAMIC FAULT REPAIRED. BUS BAR OFF B23 CONTACTOR REPLACED. A/C FOUND MISSING.’.

**28.01.1993** Service defect: ‘A - ELECTRICAL MISC. AC/DC RELAYS - FTR RELAY REPLACED A/C U/S. EX CL14.’.

**28.01.1993** Service defect: ‘A - LUBRICATING SYSTEM OIL COOLER - LEFT SIDE AFTERCOOLER CHANGED.’.

## 2.14 Locomotive classification starting with ‘CLF’

**CLF 1**

Details: locomotive ‘CLF 1 X’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 19.06.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED ‘CITY OF WHYALLA‘
**BSG Code:** LSAC

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 11.04.1997 | | |
| SW Service Mileage: | 584727 KM | SW Service Date: | 18.12.1996 |
| A Service Mileage: | 213995 KM | A Service Date: | 30.06.1994 |
| B Service Mileage: | 146330 KM | B Service Date: | 31.03.1994 |
| C Service Mileage: | 280056 KM | C Service Date: | 27.09.1994 |
| US Service Mileage: | 641716 KM | A Service Date: | 11.04.1997 |

**19.07.1993** Service defect: ‘SW - OTHER BODY REPAIRS - BADGE FITTED TO LOCO.’.

**06.08.1993** Service defect: ‘UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO AIR DUCT INSTALLATION COMPLETED.’.

**06.08.1993** Service defect: ‘UN - FUEL SYSTEM - FUEL TANK LEAKS REPAIRED, TANK INSTALLED ON LOCO. DRAIN PLUGON FUEL TANK SEALED. LOCO FILLED WITH 7500 LITRES OF FUEL.’.

**06.08.1993** Service defect: ‘UN - GENERAL - SERVICE WATER TANK INSTALLATION COMPLETED.’.

**12.08.1993** Service defect: ‘UN - ALTERNATOR - SLIP RING BRUSH HOLDERS ALL RE-ALIGNED AND MOST BRUSHES REPLACED.’.

**12.08.1993** Service defect: ‘UN - MAIN GENERATOR - INSPECTION OF AR10 & D14 COMPLETED.’.

**28.08.1993** Service defect: ‘UN - CONTACTOR MISCELLANEOUS - GFD CONTACTOR CHANGED, A/C BURNT RESISTORS.’.

**28.08.1993** Service defect: ‘UN - TRACTION MOTOR - NO 4 T/MOTOR CLEANED UP, OIL IN T/MOTOR.’.

**28.08.1993** Service defect: ‘UN - TRACTION MOTOR FLASHOVER - NO 1 T/MOTOR CLEANED UP, 8 T/MOTOR BRUSHES CHANGED, A/C FLASHOVERS.’.

**31.08.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GUARD REMOVED, REPAIRED & REINSTALLED.’.

**03.09.1993** Service defect: ‘UN - AUXILLARY MACHINES - AUX GEN REMOVED & NEW ONE INSTALLED WIRING CONNECTED & HATCH INSTALLED.’.

**13.09.1993** Service defect: ‘UN - GENERAL LOSS OF POWER - NO REVS - COMPUTER PROBLEM, COMPUTER REACTIVATED, LOCO LOAD TESTED OK.’.

**15.09.1993** Service defect: ‘UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BC GAUGE GLASS REPLACED.’.

**15.09.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - R1 SAND PIPE REPLACED.’.

**15.09.1993** Service defect: ‘UN - OTHER BODY REPAIRS - TEMPORARY REPAIRS TO WINDOW COMPLETED. MIRRORS SECURED.’.

**15.09.1993** Service defect: ‘UN - VIGILANCE - VIG CHECKED OK - P.C.S. OK.’.

**24.09.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR GUARD REPAIRS COMPLETED.’.

**24.09.1993** Service defect: ‘UN - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW REPAIRED.’.

**30.09.1993** Service defect: ‘TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS - FAULT TRACED TO LOAD INDICATING AMMETER: THEWIRS FROM THE METER SHUNT WERE DISCONNECTED AND MWEE’.

**30.09.1993** Service defect: ‘TS - LOADMETER REMOVED A/C CAUSING GROUND RELAYS:WIRES’.

**30.09.1993** Service defect: ‘TS - DISCONNECTED AT LOAD AMMETER SHUNT’.

**05.10.1993** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - WHEEL SHEET TAKEN.’.

**05.10.1993** Service defect: ‘UN - COOLING SYSTEM - COOLANT CHANGED.’.

**05.10.1993** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - NEW LOAD AMMETER FITTED AT MPC BY M&K STAFF.’.

**05.10.1993** Service defect: ‘UN - EXHAUST - EXHAUST STACK BOLT TIGHTENED.’.

**05.10.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT - PIPE FLARE ON COMP. TO SALEM VALVE PIPE REPAIRED.’.

**07.10.1993** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - EMERGENCY STOP BUTTON REPLACED IN ENGINE ROOM.’.

**18.10.1993** Service defect: ‘A - GENERAL - LHS OBSERV.WINDOW REPLACED,RHS SANDER PIPE REPAIRED,REPLACED1 NO. TRACTION MOTOR BRUSH’.

**18.10.1993** Service defect: ‘A - ITEMS TO BE DONE (TOOLS AT MPC)-RETENTION TANK AND’.

**18.10.1993** Service defect: ‘A - MAINS/BIG ENDS,WATER TO BE FLUSHED,INSPECT. COVER’.

**18.10.1993** Service defect: ‘A - REQ’D FOR AIRCON,NO SEALS ON EXT.RANGE CONTACTOR’.

**18.10.1993** Service defect: ‘A - COUPLING MODS OUTSTANDING’.

**30.10.1993** Service defect: ‘UN - ELECTRICAL MISC.

MODULES - MAIN MODULAR CONTROL UNIT CHANGED OUT UNDER MK INSTRUCTION.'.

**02.11.1993** Service defect: 'UN - BATTERY MAINTENANCE - FRONT BATTERY RHS REPLACED, A/C BAD CELL.'.

**02.11.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - TURBO LUBE TIMER RELAY WIRING REPAIRED, A/C TURBO PUMP RUNNING ALL THE TIME. RE- TURBO LUBE BREAKER TRIPPING - NO FAULT'.

**02.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RESISTOR RE85 REPLACED, A/C BLOWN.'.

**02.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS CUT BACK IN, OPERATE OK.'.

**02.11.1993** Service defect: 'UN - OTHER BODY REPAIRS - RHS MIRROR REPLACED, A/C BROKEN.'.

**10.11.1993** Service defect: 'TW - FUEL SYSTEM - FUEL PIPE REPAIRED NEAR COMPRESSOR, A/C LEAKING.'.

**10.11.1993** Service defect: 'TW - AMPS METER NOT WORKING. AUT/BRAKE VALVE HAS NOISY'.

**10.11.1993** Service defect: 'TW - DIAPHRAM WHEM APPLYING BRAKES. POWER POINT ABOVE'.

**10.11.1993** Service defect: 'TW - FRIDGE TO CHECK. FUEL CUT OFF NOT WORKING.10/11.'.

**16.11.1993** Service defect: 'SW - GENERAL - AIR FILTER DRIER CONNECTIONS REPAIRED.'.

**29.11.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE EXTENDED RANGE CONTACTOR REPLACED, A/C BURNT.'.

**03.12.1993** Service defect: 'TW - AIR LEEAKAGE IN NOSE COMPARTMENT, M & K TO ATTEND.'.

**03.12.1993** Service defect: 'TW - 3/12.'.

**25.12.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - AXLE GENERATOR MOD. COMPLETED.'.

**25.12.1993** Service defect: 'UN - DYNAMIC BRAKE CIRCUIT NOT WORKING,BUT OKAY WHEN A'.

**25.12.1993** Service defect: 'UN - TRAILING UNIT.25/12/93.'.

**29.12.1993** Service defect: 'UN - NO FAULT FOUND - 'A' BOGIE ISOLATED A/C R/SIDE 1 AND 3 BRAKES DRAGGING. CUT-IN AT DEPOT AND FOUND OK.'.

**28.01.1994** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RAD.FANS NOT WORKING - CONTACTORS ADJUSTED A/C NEW PROBES INSTALLED'.

**03.02.1994** Service defect: 'UN - NO FAULT FOUND - ENGINE CHECKED OK - MKCA WORKED - UNKNOWN RESULT'.

**29.04.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CONTROLLER FITTED.'.

**31.05.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO AIR FILTERS REPLACED.'.

**31.05.1994** Service defect: 'UN - EXHAUST - EXHAUST STACK BASE GASKETS REPLACED, 1,8,9 & 16.'.

**30.06.1994** Service defect: 'A - EXHAUST - EXHAUST STACKS REPAIRED A/C CRACKS DETECTED'.

### CLF 2

Details: locomotive 'CLF 2 R' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 28.06.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAC

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 08.04.1997 | | |
| SW Service Mileage: | 405258 KM | SW Service Date: | 22.11.1996 |
| A Service Mileage: | 208206 KM | A Service Date: | 06.07.1994 |
| B Service Mileage: | 149517 KM | B Service Date: | 08.04.1994 |
| US Service Mileage: | 447330 KM | A Service Date: | 24.02.1997 |

**16.07.1993** Service defect: 'UN - FUEL SYSTEM - FUEL TANK VENT FILLER MODIFIED & FITTED.'.

**16.07.1993** Service defect: 'UN - GENERAL - DETONATOR BOX BRACKET MODIFIED & FITTED.'.

**16.07.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO'S 1 & 4 T/MOTORS CLEANED UP & 12 BRUSHES FITTED,A/C FLASHOVERS. LOAD TEST CARRIED OUT TO CLEAN OUT T/M'S & DUCTS.'.

**29.07.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - REPORTED COMPRESSOR GOVERNOR FAULT - SQUARE D CHECKED OK; COMPUTER SOFTWARE CHANGED A/C FAULTY BY MKCA REPS.'.

**12.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COPPER PIPE FROM COMPRESSOR GOVERNOR TO UNLOADERS ON COMPRESSOR REPAIRED, A/C BROKEN.'.

**04.10.1993** Service defect: 'TW - BOGIE - CRATERED AND BEARING OIL ADDED.'.

**04.10.1993** Service defect: 'TW - COOLING SYSTEM - COOLANT CHANGED.'.

**15.10.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - EXT RANGE CONTACTOR REPLACED & TESTED OK.'.

**15.10.1993** Service defect: 'UN - GENERAL - DRIVERS SIDE WIPER MOTOR REPAIRED.'.

**15.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR VALVE REPAIRED.'.

**15.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END LIFTING PIN REPAIRED.'.

**22.10.1993** Service defect: 'TS - FUEL SYSTEM - NO 9 FUEL CLIP REPLACED, A/C HEAVY EXHAUST SMOKE IN ALL NOTCHES ABOVE IDLE. RHS FUEL GAUGE REPAIRED.'.

**22.10.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - MAGNET VALVE REPAIRED, A/C COMP FOUND PERMANENTLY ON LOAD.'.

**22.10.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - LOCK LIFTER PINS REPAIRED.'.

**22.10.1993** Service defect: 'TS - OTHER BODY REPAIRS - NEW MIRRORS FITTED.'.

**09.11.1993** Service defect: 'UN - AIR CONDITIONING - A/COND BLOWING HOT AIR -'.

**09.11.1993** Service defect: 'UN - GENERAL - LOAD AMMETER U/S -'.

**18.11.1993** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - C/BREAKER TESTED ON A/COND CIRCUIT - REPLACED,FISHER UNIT MODS CARRIED OUT AS PER MK REQUEST.’.
**21.11.1993** Service defect: ‘TW - VIGILANCE - VIG WARNING BELL REPAIRED.’.
**21.11.1993** Service defect: ‘TW - KETTLE POWER POINT TO REPAIR AT M & K. REPLACED’.
**21.11.1993** Service defect: ‘TW - WITH POWER POINT FROM CLP11.’.
**01.12.1993** Service defect: ‘UN - ENGINE - TOP DECK COVERS LEAKING OIL - REPAIRED’.
**20.12.1993** Service defect: ‘UN - GENERAL - ‘B‘END UN-COUPLER PIN REPAIRED. HORN REPAIRED. RADIO CLIP OBS. SIDE REPLACED, A/C MISSING.’.
**20.12.1993** Service defect: ‘UN - OTHER BODY REPAIRS - D/SIDE CAB DOOR LUBRICATED, A/C HARD TO OPEN.’.
**20.12.1993** Service defect: ‘UN - VIGILANCE - AUDIBLE WARNING FOR VIGILANCE REPAIRED.’.
**19.01.1994** Service defect: ‘TS - ELECTRICAL MISCELLANEOUS - NEW SOFTWARE 1-7 VERSION FITTED AND BOTH P1 AND P2 WATER PROBES FITTED AND RE-CALIBRATED DONE BY M&K AT PT AUGUSTA.’.
**14.02.1994** Service defect: ‘UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO IN-LET DUCT CRACKED. M&K ADVISED AND LOCO HAULED BACK TO PT. AUGUSTA FOR REPAIRS.’.
**28.03.1994** Service defect: ‘TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.’.
**08.04.1994** Service defect: ‘B - MECHANICAL EQUIPMENT - COUPLER MECHANISM REPLACED THRU MKCA A/C BENT OUT OF SHAPE’.
**17.05.1994** Service defect: ‘UN - ENGINE GOVERNOR ELECTRICAL - GOVERNOR (ACTUATION) SUSPECT - SPEED SENSOR REPAIRED.’.
**17.05.1994** Service defect: ‘UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO AIR INLET FILTERS REPLACED.’.
**17.05.1994** Service defect: ‘UN - FUEL SYSTEM - FUEL SYSTEM CHECKED FOR AIR - OK.’.
**17.05.1994** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - ‘B‘END O/S TRAIN PIPE COCK REPLACED, A/C BLOWING OUT BLEED OFF HOLE.’.
**25.05.1994** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - DRIVERS/SIDE MAIN/RES PIPE REPAIRED, BOTH BOGIE HOSES REPAIRED.’.
**09.06.1994** Service defect: ‘TS - ELECTRICAL MISC. GROUND RELAY - GR SYSTEM TESTED OK. GR PICKUP AT SPECIFIED VALUE.’.
**09.06.1994** Service defect: ‘TS - FUEL SYSTEM - FUEL PIPE FROM PUMP TO PRIMARY FILTER REPAIRED.’.
**24.06.1994** Service defect: ‘UN - ENGINE - WATER LEAK REPAIRED OK’.
**06.07.1994** Service defect: ‘A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER CHANGED OUT A/C EXTREME NOISE AND CRACKED STACK’.

**CLF 3**

Details: locomotive ‘CLF 3 D’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 02.07.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAC

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 21.03.1997 | | |
| SW Service Mileage: | 690417 KM | SW Service Date: | 21.03.1997 |
| A Service Mileage: | 141968 KM | A Service Date: | 22.04.1994 |
| B Service Mileage: | 76118 KM | B Service Date: | 17.01.1994 |
| C Service Mileage: | 159806 KM | C Service Date: | 29.07.1994 |
| US Service Mileage: | 676322 KM | A Service Date: | 26.02.1997 |

**21.07.1993** Service defect: ‘UN - FUEL SYSTEM - VENT FILLER FITTED TO FUEL TANK.’.
**21.07.1993** Service defect: ‘UN - GENERAL - POP RIVETS FITTED TO DRIVERS CLIPBOARD.’.
**21.07.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE ABOVE DR/SIDE BOGIE REPOSITIONED. ALL SAND NOZZLESREPOSITIONED.’.
**04.08.1993** Service defect: ‘TS - ALTERNATOR - MAIN ALTERNATOR REPLACED A/C THROWN FIELD WINDINGS ON ROTOR.OVERHAULED ALTERNATOR INSTALLED FROM MK STOCK IN SHOP.’.
**04.08.1993** Service defect: ‘TS - AUXILLARY MACHINES - AUXILIARY GENERATOR COUPLING REPLACED WITH AN SPARE A/C NO RETAINING BOLT FITTED CAUSING EXCESSIVE SHAFT WEAR.’.
**04.08.1993** Service defect: ‘TS - EXHAUST - STACK TO TURBO FLANGE BOLTS,NUTS REPLACED A/C ORDINARY NUTS USED:REPLACED WITH CONELOC NUTS FROM AN STORE.’.
**04.08.1993** Service defect: ‘TS - FUEL SYSTEM INJECTORS - EXCESSIVE SMOKING - INJECTORS CHANGED OUT ON REQUEST FROM P.SMEDLEY (MKCA).’.
**04.08.1993** Service defect: ‘TS - GENERAL LOSS OF POWER - BOOKED AS LOSS OF POWER UPON INTAKE TO PAUG;ALTERNATOR WAS INSPECTED AND WAS REMOVED.’.
**04.08.1993** Service defect: ‘TS - OTHER BODY REPAIRS - SERVICE WATER TANK REPLACED A/C MKCA RETROFIT INSTALLATION. CAB DOOR SEALS REPLACED A/C DETERIORATED EXCESSIVELY.’.
**05.08.1993** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE SYSTEM FILLED WITH GREASE.’.
**05.08.1993** Service defect: ‘UN - FUEL SYSTEM INJECTORS - SET FUEL INJECTOR RACKS, SET FUEL INJECTOR TIMING, ALL WORK COMPLETED.’.
**23.08.1993** Service defect: ‘TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR NOT UNLOADING. EP VALVE CHANGED.’.
**24.09.1993** Service defect: ‘UN - BOGIE - SNOBBER BLOCK ON LEADING BOGIE, DRV/SIDE NO 1 WHEEL

REPAIREDA/C WELD BROKEN - BLOCK LOOSE.'.

**24.09.1993** Service defect: 'UN - LUBRICATING SYSTEM - PLUG IN OIL PIPE FROM PUMP TO BLOCK TIGHTENED.'.

**24.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT RELEASE & CONTROL HOSES REPLACED.'.

**24.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - WINDSCREEN WASHERS REPAIRED.'.

**18.11.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.

**18.11.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - NO 1 BRAKE CYLINDER RHS GREASE NIPPLE WELDED, A/C BROKEN OFF'.

**18.11.1993** Service defect: 'SW - TRACTION MOTOR - T/M CONNECTION RUBBERS EX DL 45 USED, A/C M & K TYPE TO TIGHT.'.

**24.11.1993** Service defect: 'A - ENGINE - EXHAUST FLEXI-JOINT SPLIT - CAUSING HEAT DAMAGE'.

**29.11.1993** Service defect: 'TS - AIR CONDITIONING - AIR CONDITIONER REPAIRS COMPLETED BY SIGMA STAFF.'.

**24.12.1993** Service defect: 'UN - BOGIE - LOOSE SNUBBER BLOCKS - L3 SNUBBER BOX REMOVED.'.

**24.12.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK - 'O' RING REPLACED ON MICHIANNA DRAIN PIPE.'.

**17.01.1994** Service defect: 'B - GENERAL - MODS CARRIED OUT IN CAB - STILL MORE TO BE DONE'.

**27.01.1994** Service defect: 'UN - ENGINE - SUSPECT INJECTORS CHANGED - STILL SOME SMOKE - TO MONITOR.'.

**14.02.1994** Service defect: 'UN - ENGINE - TURBO REPAIRED,MODS CARRIED OUT,HATCH MODIFIED,AFTERCOOLER CRACKS REPAIRED,MKCA CONDUCTED SOME OTHER REPAIRS'.

**01.03.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - TRIAL RUN, A/C GROUND RELAYS, CHECKED OUT OK.'.

**01.03.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - RELAY VALVE REPLACED, A/C HOLE IN DIAPHRAM.'.

**11.03.1994** Service defect: 'UN - GENERAL - ENGINE ROOM WASHED, A/C FILTHY.'.

**17.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - REPAIRED CRACKED AIR LINE TO COMPRESSOR UNLOADERS.'.

**22.04.1994** Service defect: 'A - ENGINE - EXHAUST STACK REPAIRS A/C UPTAKES CRACKED'.

**03.05.1994** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - OILED AND CRATERED.'.

**16.06.1994** Service defect: 'UN - ENGINE - TURBO REMOVED A/C FAILURE - REPAIRED THEN RE-INSTALLED'.

**29.07.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - LOW H P FAULT SUSPECT SOFTWARE FAULT'.

**29.07.1994** Service defect: 'C - ELECT CAB DOOR SEALS REPAIRED'.

**29.07.1994** Service defect: 'C - LOW HP FAULT SUSPECT SOFTWARE PROBLEM'.

**02.08.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - CLEANED AROUND COMPRESSOR AREA -OK'.

**CLF 4**

Details: locomotive 'CLF 4 M' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 11.08.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAC

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 17.03.1997 | | |
| SW Service Mileage: | 690954 KM | SW Service Date: | 17.03.1997 |
| A Service Mileage: | 147828 KM | A Service Date: | 11.05.1994 |
| B Service Mileage: | 86751 KM | B Service Date: | 17.02.1994 |
| C Service Mileage: | 187629 KM | C Service Date: | 11.08.1994 |
| US Service Mileage: | 672726 KM | A Service Date: | 18.12.1996 |

**24.08.1993** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC BRAKE DICONNECTED. LOCO CLF4 SENT BACK TO M&K.'.

**28.08.1993** Service defect: 'UN - BOGIE - R3 BRAKE CYLINDER GREASE NIPPLE REPLACED, A/C BROKEN OFF BY SAND PIPE. SAND PIPE FITTED BACK INTO POSITION.'.

**02.10.1993** Service defect: 'TW - BOGIE - BOGIES CRATERED AND SUSPENSION BEARING OIL ADDED.'.

**05.10.1993** Service defect: 'UN - GENERAL - LOCO RELEASED TO HAUL TO PT. AUGUSTA.'.

**06.10.1993** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATOR VENT PIPES REPLACED AND TESTED OK BY M&K.'.

**06.10.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SHAFT REPAIRED BY M&K A/C HAD COME LOOSE.'.

**15.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB DOWN LIGHTS NOT WORKING-REPLACED:100 METRE COUNTER NOT WORKING-NO SPARES:POWER POINT WILL NOT SWITCH OFF-NO SPARES'.

**15.10.1993** Service defect: 'UN - ENGINE - COMPRESSOR LEAK,TURBO DUCT CRACKED,AIR INTAKE DUCT CRACKED: NEW LINERS AND PISTON IN COMPRESSOR,CRACKS REPAIRED EXCEPT'.

**15.10.1993** Service defect: 'UN - ENGINE OIL - DRAIN PIPE FROM MAIN LUBE OIL PUMP OUTLET LEAKING-REMOVED, RESEALED AND REPLACED (13/10)-CHECKED'.

**27.10.1993** Service defect: 'UN - GENERAL - TOILET BLOCKED - TOILET UNBLOCKED & CLEANED, STILL CHECKING OPERATION. REPAIRED BY M & K.'.

**30.10.1993** Service defect: 'UN - ENGINE - ENGINE PROTECTION UNIT CHANGED A/C FAULTY.'.

**18.11.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 3 AND NO 5 WHEELSET SWAP COMPLETED. DIRECTION TESTED OK.'.

**18.11.1993** Service defect: ‘SW - OTHER BODY REPAIRS - REPLACED MIRROR OBS/SIDE.’.
**28.11.1993** Service defect: ‘TW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET SEALED WITH SALASTIC.’.
**28.11.1993** Service defect: ‘TW - RADIATOR/PRESSURISING FAN - PRESSURISING FAN HOUSING SEALED,A/C CRACKED.’.
**01.12.1993** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - COOLING FAN CONTACTORS CHECKED & CLEANED,TESTED ON SELF LOAD’.
**24.01.1994** Service defect: ‘TW - ELECTRICAL MISCELLANEOUS - CHANGED POWER CARD IN PCM, A/C BURNING SMELL APPARENT UPON STARTING ENGINE. UNIT CHECKED OK.’.
**04.02.1994** Service defect: ‘UN - ENGINE - TURBOCHARGER CHANGED A/C U/S’.
**11.02.1994** Service defect: ‘UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS - CARD REPLACED - CHECKED OK’.
**26.02.1994** Service defect: ‘UN - ALTERNATOR - TERMINAL REPLACED A/C BURNT BETWEEN STUDS’.
**26.02.1994** Service defect: ‘UN - GENERAL - MKCA MODIFICATIONS CARRIED OUT’.
**21.05.1994** Service defect: ‘TW - AMP METER GAUGE DOES NOT WORK.21/5.’.
**29.06.1994** Service defect: ‘UN - GENERAL - FUEL TANK CRACKED - REPAIRED AND TESTED OK’.
**18.08.1994** Service defect: ‘UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR REPAIRS -PISTON CHANGED A/C OVERHEATED’.

**CLF 5**

Details: locomotive ‘CLF 5 V’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 11.08.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAC

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 24.04.1997 | | |
| SW Service Mileage: | 486760 KM | SW Service Date: | 12.02.1997 |
| A Service Mileage: | 148470 KM | A Service Date: | 08.06.1994 |
| B Service Mileage: | 102229 KM | B Service Date: | 01.03.1994 |
| C Service Mileage: | 213488 KM | C Service Date: | 14.09.1994 |
| US Service Mileage: | 505076 KM | A Service Date: | 02.04.1997 |

**01.09.1993** Service defect: ‘TS - ELECTRICAL MISCELLANEOUS - ELECTRICAL STARTING FAULT - ENGINE BARRED OVER - TIGHT IN ONE SPOT BUT STARTED OKAY. LOAD TESTED OKAY. GRID BLOWER’.
**03.09.1993** Service defect: ‘UN - GENERAL - HAULED TO WHYALLA FOR M & K TO REPAIR.’.
**09.09.1993** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT TRAIN PIPE AND MAIN RESERVOIR PIPES REPAIRED AND HOSESREPLACED, CHECKED FOR AIR LEAKS - CHECKED OK. OBS/SIDE BRAKE’.
**14.09.1993** Service defect: ‘UN - GENERAL - DATA LOGGER REPLACED, EX CLF6.’.
**27.09.1993** Service defect: ‘TS - BOGIE - BRAKE CYLINDER PLUG BROKEN - PLUG REMOVED & REPLACED.’.
**27.09.1993** Service defect: ‘TW - BATTERY MAINTENANCE - BATTERIES TOPPED UP WITH WATER, A/C VERY LOW.’.
**27.09.1993** Service defect: ‘TW - GENERAL - TW - CRATER + OIL COMPLETED.’.
**29.09.1993** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - EQUALISING RES ADJUSTED TO 500KPA.’.
**29.09.1993** Service defect: ‘UN - VIGILANCE - VIGILANCE BELL REPAIRED.’.
**29.09.1993** Service defect: ‘UN - NUMEROUS LOG BOOK REPS, TO BE COMPLETED IN WHYALLA’.
**29.09.1993** Service defect: ‘UN - 29/9.’.
**08.10.1993** Service defect: ‘TS - ELECTRICAL MISCELLANEOUS - HEATERS REPAIRED. OBS. SIDE HEATER BRACKET REWELDED.’.
**08.10.1993** Service defect: ‘TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR CUT-IN ADJUSTED - 775KPA. CUT-OUT - 860KPA. WAS775KPA TO 825KPA.’.
**08.10.1993** Service defect: ‘TS - VIGILANCE - VIGILANCE FAULT REPAIRED. PPSN WIRE FOUND DISCONNECTED AT TERMINAL BOARD.’.
**13.10.1993** Service defect: ‘UN - BOGIE MAINTENANCE - SPRINGS - R5 SPRING RE-LOCATED A/C BECAME UNSEATED.’.
**13.10.1993** Service defect: ‘UN - FUEL GAUGE GASKET LEAKING, FUEL SHUT-OFF U/S.13/10’.
**18.10.1993** Service defect: ‘UN - FUEL SYSTEM - FUEL GAUGE TO CHANGE - CLEARED BOTTOM ISOLATING COCK & WORK ING OK.’.
**30.10.1993** Service defect: ‘UN - ELECTRICAL MAINTENANCE -WIRING - COMPANION ALTERNATOR TERMINAL BOARD BURNT - WIRING AWAY SIDEOF BOARD AND BOARD ITSELF REPAIRED AND CHECKED OK.’.
**30.11.1993** Service defect: ‘A - ELECTRICAL MISC. MODULES - MK REPS REPLACED COMPUTER CARDS A/C NO POWER OR MOVEMENT’.
**09.12.1993** Service defect: ‘UN - BROKEN VALVE - AIR LEAK ON VIGILANCE CIRCUIT(VALVE U/S) - REPLACED & TESTED’.
**09.12.1993** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT LOACTED BEHIND BATTERY SWITCH PANEL - REPAIRED’.
**12.12.1993** Service defect: ‘TW - ELECTRICAL MISCELLANEOUS - NEW COMPUTER POWER CABLE FITTED A/C OLD ONE HAD BURNT PIN.’.
**12.12.1993** Service defect: ‘TW - GENERAL - T/W PERFORMED.’.
**12.12.1993** Service defect: ‘TW - STARTER MOTOR - STARTER SOLENOID REPLACED A/C DEFECTIVE.’.
**21.01.1994** Service defect: ‘UN - ENGINE WATER LEAK - WATER LEAK FROM ‘Y‘PIECE. ‘Y‘PIECE GASKET REPLACED.’.

**27.01.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED TO DTE HEAVY TYPE'.
**27.01.1994** Service defect: 'UN - OIL LEAKS,COMPRESSOR OIL CHANGED TO DTE HEAVY TYPE'.
**04.02.1994** Service defect: 'UN - ENGINE - OVERSPEED ON STARTING - PROBE CHANGED AND CHECKED OK.'.
**09.02.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - REPAIRED SOLDER JOINT ON ENGINE SPEED SENSOR CABLE, A/C BROKEN. (M & K).'.
**01.03.1994** Service defect: 'B - ALTERNATOR - TERMINAL BOARD FOR AR10 BURNT - REPLACED AND CHECKED OK'.
**07.04.1994** Service defect: 'UN - ENGINE GOVERNOR - HEIZMANN ACTUATOR CABLING REPAIRED'.
**22.04.1994** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - NO RAD FAN FUSE REPLACED. RAD FANS CHECKED OK.'.
**22.04.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - D14 OUTPUT TERMINAL STRIP AND WIRING REPAIRED. 189 VOLTS ON D14.'.
**22.04.1994** Service defect: 'TS - ENGINE - LOCO LOAD TESTED - 2900HP.'.
**05.05.1994** Service defect: 'TW - BOGIE - OILED AND CRATERED.'.
**19.08.1994** Service defect: 'UN - DYNA VANE HATCH MODS COMPLETED'.
**14.09.1994** Service defect: 'C - COOLING WATER - SERVICE WATER TANK REPLACED'.

**CLF 6**

Details: locomotive 'CLF 6 H' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 20.08.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAC

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| SW Service Mileage: | 492626 KM | SW Service Date: | 11.02.1997 |
| A Service Mileage: | 206826 KM | A Service Date: | 10.09.1994 |
| US Service Mileage: | 492626 KM | A Service Date: | 09.04.1997 |

**09.09.1993** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN FOUND HOT - AUX GEN CONNECTION CHECKED OK & RETAPED.'.
**09.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDBOX REPAIRED, A/C LEAKING.'.
**09.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - OBS/SIDE WINDOW REMOVED & REPAIRED, A/C STICKING.'.
**09.09.1993** Service defect: 'UN - TRACTION MOTOR - ABRASIVE MATERIAL FOUND IN T/M'S, ALL T/M'S BLOWN OUT & VACUUMED.'.
**09.09.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 1 T/MOTOR FLASHED - REPLACED ALL BRUSHES.'.
**10.09.1993** Service defect: 'TS - ENGINE PROTECTION - ENGINE PROTECTION DEVICE CHANGED, LOAD TEST CARRIED OUT.'.
**24.09.1993** Service defect: 'UN - ELECT.MISC. SWITCHES/CIRCUIT BREAKERS - LIGHT CIRCUIT BREAKER TRIPPING WITH FOGLIGHTS ON:OVERLOADED CIRCUIT.MKCA REP INSTRUCTED E/FITTER TO REPLACE 30 AMP LIGHT'.
**24.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - ELECTRIC KETTLE CABLE FOUND TO BE FAULTY - MELTED PLUG.'.
**27.09.1993** Service defect: 'TW - GENERAL - TW - CRATER + OIL COMPLETED.'.
**27.09.1993** Service defect: 'TW - COMPUTER READING DIFFERS WITH DASH READING. DATA'.
**27.09.1993** Service defect: 'TW - LOGGER FROZEN. FOG LIGHTS STILL TRIP LIGHT BREAKER'.
**01.10.1993** Service defect: 'TS - FUEL SYSTEM - FUEL STRAINER CLEANED AND SPIN ON FILTERS RENEWED. SHOWING FUEL IN SECOND SIGHT GLASS.'.
**01.10.1993** Service defect: 'TS - GENERAL SHUTDOWN - LOCO SHUT DOWN, ENGINE OVERSPEED INDICATION NOTCH 8 MAKING TRANSITION. ADJUSTMENTS MADE BY NOEL OK FOR TRAFFIC.'.
**11.10.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN. BRAKE REPORTED NOT WORKING. CHECKED OK IN DEPOT.'.
**11.10.1993** Service defect: 'UN - ENGINE - FUEL FILTER AND LUBE OIL FILTERS FITTED A/C NON FITTED. OIL LEAKS REPAIRED.'.
**11.10.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - COMPUTER SHOWED TURBO LUBE PUMP STOPPED. WORKING OK IN MPC.'.
**11.10.1993** Service defect: 'UN - EXHAUST - EXHAUST STACK BOLTS TIGHTENED.'.
**11.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER CHECKED OK.'.
**14.10.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - OVERSPEED DURING SERIES TO PARALLEL,28KMH;FUEL PUMP STOPPED;DATA LOGGER FROZEN:CHECKED WIRING,COMPUTER,TRAIN MOVEMENT -'.
**21.10.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - LOCO JUMP STARTED - VOLTAGE REGULATOR ADJUSTED TO 72V DUE TOTHE LACK OF CHARGING CURRENT TO THE BATTERIES.'.
**26.10.1993** Service defect: 'UN - BOGIE - LOCO DOUBLE LIFTED, BOGIE CENTRES INSPECTED,NEW WEAR PLATES FITTED & LUBRICATED.'.
**26.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - EMERGENCY SHUT DOWN BUTTON REPAIRED.'.
**26.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - B/C PRESSURE ADJUSTED, FLOW METER VENTURI TURNED AROUND, A/CINSTALLED INCORRECTLY.'.

**26.10.1993** Service defect: ‘UN - BDT OUTPUT FROM COMPUTER TO MAIN RES DRAIN VALVES’.
**26.10.1993** Service defect: ‘UN - MVRD1 & MVRD2 NOT FUNCTIONING. M & K TO ATTEND.26/’.
**26.10.1993** Service defect: ‘UN - 10.’.
**02.11.1993** Service defect: ‘UN - ENGINE - ENGINE SHUTTING DOWN IN NOTCH 7/8,MKCA REPS TO WORK ON LOCO.’.
**03.11.1993** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - AXLE GENRATOR NO.3 CHANGED - MKCA REPS.’.
**04.11.1993** Service defect: ‘UN - ELECTRICAL MISC. MODULES - MKCA REPS WORKED ON LOCO - COMPUTER PROBLEMS’.
**09.11.1993** Service defect: ‘UN - GENERAL - G/RELAYS - 3 NO. BRUSH HOLDERS REPLACED NO.3 TRACTION MOTOR,RUBBER SLEEVE RPLCD A/C RUBBED THRU BY H/BKE CHAINNO.6 T/M.’.
**11.11.1993** Service defect: ‘UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET DUCT REPAIRED - TACK WELDED AND SEALED WITH SILASTIC AS PER INSTRUCTIONS.’.
**25.11.1993** Service defect: ‘TW - VIGILANCE - VIG CUT IN AND TESTED OK IN YARD.’.
**10.12.1993** Service defect: ‘UN - GENERAL - TH D TO BE’.
**22.02.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - EMERGENCY STOP BUTTON REPLACED.’.
**22.02.1994** Service defect: ‘UN - EXHAUST - EXHAUST STACK REPAIRED, A/C CRACKED CAUSING RATTLING NOISE.’.
**22.03.1994** Service defect: ‘UN - COOLING SYSTEM OVERHEATING - LOAD TESTED TO MONITOR ENGINE TEMP. LOAD TESTED OK AND ENGTEMP. OK.’.
**28.03.1994** Service defect: ‘TS - GENERAL - REPAIRS COMPLETED (M & K).’.
**09.05.1994** Service defect: ‘TS - BOGIE - FLANGE LUBE PIPE REPAIRED.’.
**09.05.1994** Service defect: ‘TS - GENERAL - TOILET FILLER NOZZLE FITTED. D/S BOTTOM DOOR LATCH REWELDED.JUMP START CABLE SUPPLIED. DATA LOGGER RESEALED. AIR LEAK IN’.
**09.05.1994** Service defect: ‘TS - MECHANICAL EQUIPMENT BRAKE VALVE - PIPING FOR AUTO BRAKE VALVES TO PIPE OUTSIDE LOCO COMPLETED.’.
**09.05.1994** Service defect: ‘TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SHAFT FITTED AND REALIGNED.’.
**11.05.1994** Service defect: ‘UN - GENERAL - SOUND PROOFING GLUED TO O/SIDE WALL IN SIDE SECTION ADJACENTELECT CAB. WELDING REQUIREMENTS COMPLETED. (M & K STAFF).’.
**13.05.1994** Service defect: ‘UN - ENGINE - AIR STRAINER IN BRAKE RACK CHANGED.’.
**13.05.1994** Service defect: ‘UN - GENERAL - CAB TO ENGINEROOM DOOR TOP HINGE WELDED.’.
**13.05.1994** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRACKET FITTED TO AIR PIPE IN NOSE.’.
**27.05.1994** Service defect: ‘UN - AUXILLARY MACHINES - AUX GEN SHAFT REMOVED, LOCO LOAD TESTED AND SHAFT REALIGNED AND REPLACED.’.
**30.06.1994** Service defect: ‘SW - AUXILLARY MACHINES - AUX GEN REMOVED AND FANS BALANCED, NEW BEARINGS FITTED. LOADTESTED OK.’.
**30.06.1994** Service defect: ‘SW - STARTER MOTOR - STARTER MOTORS CHECKED OK, A/C SLOW TO ENGAGE.’.
**11.08.1994** Service defect: ‘UN - NO FAULT FOUND - TRAINLINE FAULT -LOCO TESTED OK’.
**10.09.1994** Service defect: ‘A - ENGINE - TURBO CHANGED’.
**99.99.9999** Service defect: ‘SW - SCHEDULED WORK’.

**CLF 7**

Details: locomotive ‘CLF 7 Q’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 28.09.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**BSG Code:** LSAC

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 24.04.1997 | | |
| SW Service Mileage: | 749037 KM | SW Service Date: | 22.03.1997 |
| A Service Mileage: | 149700 KM | A Service Date: | 02.08.1994 |
| US Service Mileage: | 764509 KM | A Service Date: | 24.04.1997 |

**01.10.1993** Service defect: ‘TW - GENERAL - TW - OILED & CRATERED.’.
**01.10.1993** Service defect: ‘TW - SPEEDO & DATA LOGGER DON’T MATCH.1/10.’.
**14.10.1993** Service defect: ‘UN - ALTERNATOR - ALTERNATOR CHANGED OUT A/C SUSPECT COILS ON ROTOR - NEWLY OVERHAULED ALTERNATOR INSTALLED - TESTED/CHECKED BY MK REPS.’.
**26.10.1993** Service defect: ‘UN - BROKEN VALVE - FRONT BOGIE WOULD NOT RELEASE AS TRAILING UNIT-ELS VALVE ON FRONT BOGIE BLOWING AIR-FAULT NOT FIXED,UNDER INSTRUCTION.’.
**26.10.1993** Service defect: ‘UN - ELS RELAY TO BE FIXED’.
**30.10.1993** Service defect: ‘UN - BROKEN VALVE - BOGIE BRAKES NOT RELEASING WHILST IN TRAIL POSITION - BC DBLE CHECK VALVE CONTAMINATED WITH METAL FILINGS-DC VALVE’.
**06.11.1993** Service defect: ‘UN - ENGINE - TURBO FAILURE - COMMENCE STIPPING TURBOCHARGER’.
**08.11.1993** Service defect: ‘UN - ENGINE - TURBO FAILURE - PREPARE/AWAIT SECOND REPLACEMENT TURBO FROM MK (FIRST REPLACEMENT ALSO CRACKED)’.
**09.11.1993** Service defect: ‘UN - ENGINE - TURBO FAILED - TURBOCHARGER REPLACED A/C CRACKS IN EXHAUST MANIFOLD. EXHAUST GASES SCORCHING D/BKE CABLES, LIGHT FITTGS’.
**16.11.1993** Service defect: ‘TW - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES HOSE ‘B‘END REPLACED.’.
**16.11.1993** Service defect: ‘TW - 100M COUNTER TO REPAIR. OBS BLIND TO REPAIR. M & K’.

**16.11.1993** Service defect: 'TW - TO REPAIR.16/11.'.
**09.12.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE HATCH RE-WIRED DUE TO EXTENSIVE DAMAGE TO ALL CABLES AND CONTACTORS DURING FIRE.'.
**09.12.1993** Service defect: 'UN - ENGINE ROOM - ENGINE ROOM DAMAGED BY HEAT AND SMOKE - CLEANED ACCORDING TOMK REPS INSTRUCTIONS.'.
**09.12.1993** Service defect: 'UN - EXHAUST - EXHAUST FLEXI JOINT TO TURBO CRACKED,THEN SPLIT,CAUSING HOT EXHAUST AIR TO BURN INSIDE OF ENGINE ROOM AND D.BKE CABLES.'.
**09.12.1993** Service defect: 'UN - GENERAL - GENERAL INSPECTION AND SERVICE CHECKS DONE TO FIND FURTHER FAULTS - CABLES,PIPES,HOSES AND SOME MODS COMPLETED/REPAIRED'.
**09.12.1993** Service defect: 'UN - TURBO FLEXI JOINT REPLACED BUT UNRELIABLE TYPE,'.
**09.12.1993** Service defect: 'UN - EVEN WHEN NEW (AS THIS ONE IS) - MK NOTIFIED OF'.
**09.12.1993** Service defect: 'UN - PREVIOUS EXPERIENCES WITH THIS TYPE OF JOINT -THIS'.
**09.12.1993** Service defect: 'UN - HAS CAUSED THE FIRE ON CLF7.'.
**07.01.1994** Service defect: 'UN - GENERAL - D/S WIPER MOTOR REPAIRED. H/LIGHT LENS REPLACED, A/C CRACKED. OBS. BLINDS REPAIRED.'.
**07.01.1994** Service defect: 'UN - CRACKED WINDOW, TO TRAIL ONLY.7/1/94.'.
**21.01.1994** Service defect: 'UN - ENGINE - LOCO COUGHING OUT BLACK SMOKE AND FLAMES IN NOTCH 8. LOCO H/POWER REDUCED AND SEEMED OK. SENT TO PT. AUGUSTA TO CHECK.'.
**28.01.1994** Service defect: 'SW - GENERAL - HATCH MODS AND NOSE GRILL MODIFICATIONS COMPLETED'.
**02.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW REPLACED, A/C BROKEN.'.
**01.03.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - TRIAL RUN, A/C GROUND RELAYS, CHECKED OUT OK.'.
**05.05.1994** Service defect: 'A - ENGINE - OIL SEALS REPAIRED,CRACKED EQUIPMENT RACK - REPAIRED'.
**02.08.1994** Service defect: 'A - DYNAMIC BRAKE - SEVERAL GRIDS OVER CURRENT DYNAMIC BRAKE MELTED EXTENDED RANGE CONTACTORS -DISCONNECTED A/C NO SPARES'.
**02.08.1994** Service defect: 'A - MELTED EXTENDED RANGE CONTACTOR OCI DISCONNECTED'.
**02.08.1994** Service defect: 'A - A/C NO SPARES'.
**04.08.1994** Service defect: 'UN - DYNAMIC BRAKE - HIGH RES GRID CONNECTION REPAIRED -OK'.
**04.08.1994** Service defect: 'UN - GENERAL - SANDERS REPAIRED A/C WET SAND'.
**10.08.1994** Service defect: 'UN - ADDITIONAL CLEANING COMPLETED OK'.
**15.08.1994** Service defect: 'UN - NO FAULT FOUND - WHB PROBLEM NOT PUMPING UP TRAIN - NO FAULT FOUND'.
**01.02.1996** Service defect: 'TS - 0'.
**99.99.9999** Service defect: 'SW - 0'.

## 2.15 Locomotive classification starting with 'CLP'

### CLP 8

Details: locomotive 'CLP 8 J' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 17.09.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED 'CITY OF PORT AUGUSTA'
**BSG Code:** LSAN

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 23.04.1997 | | |
| SW Service Mileage: | 825894 KM | SW Service Date: | 23.04.1997 |
| A Service Mileage: | 108065 KM | A Service Date: | 23.03.1994 |
| WT Service Mileage: | 774440 KM | WT Service Date: | 18.12.1996 |
| US Service Mileage: | 820719 KM | A Service Date: | 14.04.1997 |

**29.09.1993** Service defect: 'UN - FUEL PUMP MOTOR - GEN SET FUEL PUMP MOTOR CHANGE.'.
**29.09.1993** Service defect: 'UN - FUEL SYSTEM - ALTERATION TO GEN. SET FUEL LINES.'.
**13.10.1993** Service defect: 'TW - BOGIE - OILED AND CRATERED.'.
**15.10.1993** Service defect: 'TS - GENERAL - LOCOMOTIVE RETURNED TO MKCA,WHYALLA'.
**01.12.1993** Service defect: 'TW - AIR CONDITIONING - HP RESET ON A/CON, A/C TRIPPING SOON SFTER RESETTING. TESTEDOK.'.
**01.12.1993** Service defect: 'TW - NO FAULT FOUND - FLOW METER CHECKED, UNABLE TO FAULT IN DEPOT.'.
**15.12.1993** Service defect: 'UN - GENERAL - TEMPORARY REPAIRS TO D/SIDE W/SCREEN WIPER EFFECTED, A/C NILSTOCK.'.
**15.12.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FLOW METER REPLACED, A/C NOT WORKING.'.
**15.12.1993** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE HAND RAIL RE-WELDED A/C BROKEN AT BOTTOM. CAB TO E/ROOM DOOR SEALS REPLACED A/C LEAKING.'.
**29.12.1993** Service defect: 'UN - AUXILLARY MACHINES - LUG BLOWN OFF FUEL PUMP REPLACED A/C FUEL STARVATION AT HIGHREVS.LOAD TESTED OK IN DEPOT.'.
**29.12.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - AXLE GENERATOR MOD COMPLETED.'.
**07.01.1994** Service defect: 'TS - NO FAULT FOUND - LOW TENSION EARTH, NO FAULT FOUND. CLP8 WAS COUPLED WITH GM36 WHICH HAD THE FAULT.'.

**18.01.1994** Service defect: ‘UN - GENERAL - MODIFICATIONS AS PER MK INSTRUCTIONS,PHASE ROTATION CHECKED’.
**12.03.1994** Service defect: ‘UN - FUEL PUMP MOTOR - FUEL PUMP MOTOR CHANGED, A/C FAILED.’.
**07.04.1994** Service defect: ‘UN - OTHER BODY REPAIRS - D/SIDE MIRROR REPLACED A/C CRACKED’.
**06.05.1994** Service defect: ‘TW - BOGIE - OILED AND CRATERED.’.
**06.05.1994** Service defect: ‘TW - GENERAL - INSPECTORS CHAIR REPAIRED.’.
**06.05.1994** Service defect: ‘TW - OTHER BODY REPAIRS - DUMMY COUPLINGS REPLACED.’.
**09.05.1994** Service defect: ‘UN - AIR CONDITIONING - AIR CONDITIONER REPAIRS COMPLETED.’.
**12.05.1994** Service defect: ‘TS - GENERAL - LOCO SENT ON TRIAL RUN FOR SETTING OF WHEEL DIAMETERS INTO COMPUTER.’.
**24.05.1994** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - L1 SAND PIPE MANUFACTURED AND REPLACED.’.
**31.05.1994** Service defect: ‘UN - GENERAL - COMPLETE INSPECTION/REPAIRS - PTU REPAIRS COMPLETED.’.
**03.06.1994** Service defect: ‘SW - GENERAL - PTU REPAIRS COMPLETED.’.

**CLP 9**

Details: locomotive ‘CLP 9 S’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 12.10.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED ‘WILJAKALI‘
**BSG Code:** LSAN

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| SW Service Mileage: | 727390 KM | SW Service Date: | 21.03.1997 |
| A Service Mileage: | 111924 KM | A Service Date: | 12.04.1994 |
| WT Service Mileage: | 62957 KM | WT Service Date: | 01.03.1994 |
| US Service Mileage: | 749735 KM | A Service Date: | 23.04.1997 |

**13.10.1993** Service defect: ‘TW - BOGIE - OILED AND CRATERED.’.
**15.10.1993** Service defect: ‘TS - NO FAULT FOUND - FLASHOVERS IN TRACTION MOTORS - ALL MOTORS CHECKED OK:SOME COMPUTER FAULTS - MK REPS RESET AND ALLOWED INTO TRAFFIC.’.
**20.10.1993** Service defect: ‘UN - ENGINE - ENGINE PROTECTION UNIT CHANGED UNDER INSTRUCTION FROM MKCA DIFF.WATER DISCONNECTED-NOT TO BE O/HAULED UNTIL INSP. BY MK’.
**26.10.1993** Service defect: ‘UN - GENERAL - HAND BRAKE COULD NOT RELEASE A/C STUCK IN PULLEY UNDER HAND BRAKE RATCHET- CHAIN FREED AND TESTED OK.’.
**30.10.1993** Service defect: ‘UN - BOGIE - NO 4 GEAR CASE CAP REPAIRED. 8 BAGS OF CRATER ADDED, A/C GEARS DRY.’.
**30.10.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT - FLOW METER REPLACED, A/C STICKING.’.
**30.10.1993** Service defect: ‘UN - OTHER BODY REPAIRS - MIRRORS REPLACED.’.
**16.11.1993** Service defect: ‘UN - GENERAL - HANDBRAKE PULLEY SEIZED - MK REPS NOW WORKING ON LOCOMOTIVE.’.
**30.11.1993** Service defect: ‘UN - ENGINE - BLOWN INTERCOOLER GASKETS REPLACED’.
**10.12.1993** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING REPAIRED.’.
**20.12.1993** Service defect: ‘UN - ELECTRICAL MAINTENANCE -WIRING - REAR H/LIGHT NOT WORKING. TB38 WIRE FOUND DISCONNECTED. REPLACED.’.
**20.12.1993** Service defect: ‘UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO EXPANSION JOINT CHANGED.’.
**20.12.1993** Service defect: ‘UN - EXHAUST - NO.1 EXHAUST STACK GASKETS REPLACED. ALL EXHAUST STACKS RE-TORQUED.’.
**20.12.1993** Service defect: ‘UN - GENERAL - TRIP WEEKLY.’.
**31.12.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - LIFTING PIN REPAIRED.’.
**31.12.1993** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE LEAK REPAIRED,FLOWMETER REPIPED AND TESTED OKAY.’.
**07.01.1994** Service defect: ‘TW - GENERAL - TW COMPLETED.’.
**18.01.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - NO.1 HEAD END POWER UNIT CHANGED - TESTED OK,PHASE ROTATION OUT OF SEQUENCE - RECTIFIED AT C/BREAKER.’.
**25.01.1994** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE LEAK REPAIRED. HAD TO CUT HOLE IN COW CATCHER TOGAIN ACCESS TO BARREL UNION.’.
**25.01.1994** Service defect: ‘UN - RADIATOR/PRESSURISING FAN - NO.3 RADIATOR FAN REPLACED, A/C OLD ONE USED TO REPLACE NO.1FAN ON CLP15.’.
**02.02.1994** Service defect: ‘UN - ELECTRICAL MISC. MODULES - MKCA REPS INSTRUCTED ON REPAIRS TO COMPUTER’.
**15.02.1994** Service defect: ‘TW - ELECTRICAL MISC. HEADLIGHT - FRONT, TOP HEADLIGHT REPLACED.’.
**04.03.1994** Service defect: ‘TW - R6 SANDER BRACKET TO RESECURE NEXT SERVICE.4/3.’.
**04.03.1994** Service defect: ‘TW - BATTERY CABLE SITS DIRECTLY ON TOP OF FILLER CAP’.
**04.03.1994** Service defect: ‘TW - TO RELOCATE.4/3.’.
**19.03.1994** Service defect: ‘TS - BOGIE - ‘A‘BOGIE CENTRE LUBRICATED. ALL EXTERNAL BOGIE SHOCKERS REMOVED, A/C DAMAGED.’.
**19.03.1994** Service defect: ‘TS - ELECTRICAL MISCELLANEOUS - NO.3 AND NO.5 SPEED SENSOR CONDUIT REPAIRED, A/C SPLIT.’.

**19.03.1994** Service defect: 'TS - GENERAL ACCIDENT - CLP9 DERAILMENT REPAIRS. ACCIDENT NO.WD25 FLANGE LUBE CUT-OUT.'.
**19.03.1994** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - MAGNET SANDER VALVES REFITTED. SAND PIPES REPAIRED.'.
**19.03.1994** Service defect: 'TS - TRACTION MOTOR - NO.3 T/M BELLOWS REPLACED. NO.1 T/M CABLES REPAIRED, A/C SQUASHED AND CAUSING G/R'S.'.
**19.03.1994** Service defect: 'TS - TRACTION MOTOR BRUSHES - BALLAST REMOVED FROM NO.5 T/M. ALL T/M'S INSPECTED, SOME BRUSHES REPLACED, MORE REQUIRED.'.
**16.05.1994** Service defect: 'UN - STARTER MOTOR - STARTER MOTOR REPLACED.'.
**27.05.1994** Service defect: 'TS - ENGINE AIR FILTERS - ENGINE AIR INTAKE FILTERS REPLACED.'.
**27.05.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - CRACK IN TURBO INLET DUCT SILASTIC SEALED ON M & K REQUEST.'.
**15.08.1994** Service defect: 'UN - NO FAULT FOUND - WHB PROBLEMS NOT PUMPING UP TRAIN-NO FAULT FOUND'.
**99.99.9999** Service defect: 'TS - REPS.'.

**CLP 10**

Details: locomotive 'CLP 10 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 29.10.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED 'MIRNING'
**BSG Code:** LSAN

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 14.04.1997 | | |
| SW Service Mileage: | 832245 KM | SW Service Date: | 14.04.1997 |
| A Service Mileage: | 158622 KM | A Service Date: | 18.07.1994 |
| B Service Mileage: | 158322 KM | B Service Date: | 19.07.1994 |
| US Service Mileage: | 820278 KM | A Service Date: | 31.03.1997 |

**28.10.1993** Service defect: 'UN - ENGINE - LOW OIL'.
**09.11.1993** Service defect: 'UN - GENERAL - DYNAMIC BRAKE GRIDS BURNT - COMMENCE REPLACING DYAMIC BRAKE GRIDS (4 NO.)'.
**10.11.1993** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BRAKE GRIDS DAMAGED DUE TO BURNING OF CONTACTORS ANDCABLES IN HATCH,CAUSING GR'S - GRIDS AND CABLES REPAIRED.'.
**12.11.1993** Service defect: 'UN - GENERAL - COMPRESSOR AIR LEAK - INTERCOOLER HEADER GASKET LEAKING - HEADER REMOVED,NEW GASKETS FITTED.'.
**19.11.1993** Service defect: 'UN - GENERAL - WATER BLOWN OUT'.
**22.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 'A'END MV CONNECTION BOX COVER REMOVED TO CHECK FOR SHORTS WHEN WET - CHECKED OK.'.
**29.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - M & K PERSONNEL REPAIRED COMPUTER.'.
**29.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES + B/PIPE D/SIDE CHECKED OK, A/C HIT ROO]'.
**10.12.1993** Service defect: 'TW - GENERAL - T/W PERFORMED.'.
**10.12.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE RE-SECURED ON OBS. SIDE 'A'END BOGIE.'.
**10.12.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE HANDLE REPAIRED A/C COULD NOT BE REMOVED.'.
**26.12.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT TRAIN PIPE REPLACED.'.
**26.12.1993** Service defect: 'UN - 100 METRE COUNTER NOT WORKING,SAFETY CONTROL LIGHT'.
**26.12.1993** Service defect: 'UN - STAYING ON AS TRAILING UNIT.'.
**08.01.1994** Service defect: 'UN - AIR CONDITIONING - AIR CON UNIT REPLACED.'.
**08.01.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NEW 1-7 SOFT WEAR REPLACED. 1-8 REMOVED AND 1-7 REPLACED. WORK DONE AT MPC BY M&K.'.
**08.01.1994** Service defect: 'UN - ENGINE - BOTH WATER TEMP. PROBES REPLACED. NEW WATER TEMP. GAUGE FITTED.'.
**21.01.1994** Service defect: 'UN - GENERAL - MODS - SRA NO.1,2,3,5,6,8,9 - MK NO.54,60,63,64,65,66,68,69,70,71,73'.
**19.03.1994** Service defect: 'UN - BLOCKED FILTERS - ENGINE AIR IN-TAKE FILTERS CHANGED, A/C BLOCKED AND DAMAGED.ENGINE LOAD TESTED TO 3011 H.P. AND RACK POSITION .81.'.
**19.03.1994** Service defect: 'UN - EXHAUST GASKETS TO CHANGE, A/C BLOWN OUT. TO SEND'.
**19.03.1994** Service defect: 'UN - FOR GASKETS MONDAY 21/3. 19/3/94.'.
**20.05.1994** Service defect: 'SW - GENERAL - FILTER FRAME MODIFICATIONS COMPLETED'.
**16.06.1994** Service defect: 'UN - ENGINE - NO 1 HEP UNIT CHANGED, CHECKED OK. DRAINS FITTED TO RADIATORHATCH.'.
**18.07.1994** Service defect: 'A - COMPRESSOR DRAIN MOD COMPLETED'.
**18.07.1994** Service defect: 'A - RADIATOR HATCH MOD COMPLETED'.

**CLP 11**

Details: locomotive 'CLP 11 A' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m

**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 29.10.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED ‘KAURNA‘
**BSG Code:** LSAN

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 18.04.1997 | | |
| SW Service Mileage: | 849390 KM | SW Service Date: | 11.04.1997 |
| A Service Mileage: | 98027 KM | A Service Date: | 12.04.1994 |
| C Service Mileage: | 829539 KM | C Service Date: | 01.08.1994 |
| WT Service Mileage: | 726172 KM | WT Service Date: | 18.02.1994 |
| US Service Mileage: | 849694 KM | A Service Date: | 18.04.1997 |

**03.11.1993** Service defect: ‘UN - ENGINE - RING GEAR ON FLYWHEEL COMING LOOSE,PREVENTING STARTING -RINGGEAR CHANGED UNDER INSTRUCTION FROM MKCA.’.
**09.11.1993** Service defect: ‘UN - GENERAL - SHUTTING DOWN NO REASON - MK REPAIR’.
**12.11.1993** Service defect: ‘TS - OTHER BODY REPAIRS - 4 PANELS (BODY) REPLACED, 2 EACH SIDE REAR END, A/C NOT ENOUGH AIR CIRCULATING THROUGH.’.
**14.11.1993** Service defect: ‘TW - GENERAL - ENGINE ROOM DOOR FRAME REPAIRED.’.
**14.11.1993** Service defect: ‘TW - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN REPAIRED.’.
**14.11.1993** Service defect: ‘TW - RADIATOR/PRESSURISING FAN - NO 2 RADIATOR FAN REPLACED.’.
**24.11.1993** Service defect: ‘UN - ENGINE - SELF LOAD TEST CHECKED OK, A/C HOT ENGINE REPORT.’.
**24.11.1993** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE REPAIRS COMPLETED.’.
**24.11.1993** Service defect: ‘UN - MECHANICAL MAINTENANCE - SOUND WARNING - ALARM BELL INSTALLED.’.
**28.11.1993** Service defect: ‘TW - COOLING SYSTEM - FLEXIBLE JOINT IN RADIATOR PIPE ABOVE LAYSHAFT MANUAL LEVER TIGHTENED, A/C LEAKING.’.
**12.12.1993** Service defect: ‘TW - GENERAL - OILED AND CRATERED.’.
**13.12.1993** Service defect: ‘TS - ENGINE - EDUCTOR TUBE CLEANED. LOAD TESTED 2 INCHES VACUUM IN SUMP IN NOTCH 8.’.
**13.12.1993** Service defect: ‘TS - FUEL SYSTEM LINES - FUEL LEAK REPAIRED. WAS LEAKING ON FUEL LINE TO HEP UNITS. 2 AND ONE HALF HOURS LABOUR.’.
**13.12.1993** Service defect: ‘TS - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE LEAK REPAIRED.’.
**21.01.1994** Service defect: ‘UN - GENERAL - MODS - SRA NO.1,2,3,5,6,8,9 - MK NO.54,63,64,65,66,68,69,70,71,73’.
**25.01.1994** Service defect: ‘UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY OPERATED. FOUND REMAINS OF CLEANING COMPOUND FROM O/HAUL IN T/M’S NO.1, 3, 4 AND 5.’.
**25.01.1994** Service defect: ‘UN - GENERAL SHUTDOWN - ENGINE SHUT DOWN 3 TIMES AFTER NOTCHING UP FOR NO APPARENT REASON.’.
**17.02.1994** Service defect: ‘UN - BATTERY MAINTENANCE - BATTERIES INSTALLED IN H.E.P UNIT. 5A FUSE REPLACED.’.
**17.02.1994** Service defect: ‘UN - ENGINE - BROKEN ENGINE MOUNTING BOLT REPLACED. COMPRESSOR INTERCOOLERREPLACED.’.
**17.02.1994** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - WHEELS TURNED(WTM), BRAKES ADJUSTED.’.
**14.03.1994** Service defect: ‘UN - BOGIE - T/M BLOWER DUCTS BLOWN OUT.’.
**14.03.1994** Service defect: ‘UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY UNIT REPLACED.’.
**14.03.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - COMPUTER SCREEN REPLACED, A/C NOT WORKING.’.
**14.03.1994** Service defect: ‘UN - TRACTION MOTOR - NO.3 AND NO.6 T/M CHANGED, A/C GROUND RELAYS. NO.’S 1,2,4AND5 T/M’S AND B/HOLDERS CLEANED, A/C IRON FILINGS.’.
**14.03.1994** Service defect: ‘UN - TRACTION MOTOR BRUSHES - NEW BRUSHES FITTED TO NO.’S 1,2,4 AND 5 T/M’S.’.
**21.03.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - LOAD TEST CONTACTORS TO BE CHECKED/CHANGED LATER - ON ADVICEFROM MKCA REP - OK FOR TRAFFIC’.
**21.03.1994** Service defect: ‘UN - GENERAL - ODOMETER READING TO BE IGNORED A/C DRIVER MODULE ERRATIC’.
**28.03.1994** Service defect: ‘SW - GENERAL - RADIATOR FAN U/S - TO PAUG’.
**28.03.1994** Service defect: ‘TS - RADIATOR FAN MOTOR - NO.1 RADIATOR FAN CHANGED A/C BURNT PINS IN CONNECTOR’.
**30.03.1994** Service defect: ‘UN - GENERAL - REPAIRS COMPLETED (M & K).’.
**26.04.1994** Service defect: ‘TW - BOGIE - BEARING OIL OK.’.
**26.04.1994** Service defect: ‘TW - BOGIE MAINTENANCE - WHEELS - CRATER TOPPED UP.’.
**29.04.1994** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - LOCK LIFTER ‘B’ END REPAIRED.’.
**11.05.1994** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - DATA LOGGER REPLACED, SPEEDO NOW OK.’.
**11.05.1994** Service defect: ‘UN - VIGILANCE - VIG REPAIRED.’.
**20.05.1994** Service defect: ‘UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER REPLACED, A/C FAULTY.’.
**20.05.1994** Service defect: ‘UN - GENERAL - D/S WHITE MARKER LIGHT LENS REPLACED, A/C BROKEN.’.
**01.08.1994** Service defect: ‘C - COOLING SYSTEM - COOLING WATER REPLACED’.
**01.08.1994** Service defect: ‘C - ELECTRICAL MISCELLANEOUS - BENT H.E.P. SOCKET REPLACED’.
**01.08.1994** Service defect: ‘C - EXHAUST - CRACKED EXHAUST BOX REPAIRED’.
**01.08.1994** Service defect: ‘C - NO FAULT FOUND - LOW

COMPRESSOR OIL PRESSURE ON COMPUTER -TESTED OK ON COMPRESSOR'.

**CLP 12**

Details: locomotive 'CLP 12 J' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 04.11.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED 'NGADJURI'
**BSG Code:** LSAN

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 29.04.1997 | | |
| SW Service Mileage: | 790707 KM | SW Service Date: | 16.04.1997 |
| A Service Mileage: | 61708 KM | A Service Date: | 02.02.1994 |
| B Service Mileage: | 156755 KM | B Service Date: | 23.08.1994 |
| US Service Mileage: | 794250 KM | A Service Date: | 29.04.1997 |

**09.11.1993** Service defect: 'UN - ENGINE - LOW WATER SHUTDOWN - ENG PROTETION DEVICE REPLACED, DIFF. PRESSURE HOLE PLUGGED. LOAD TESTED.'.
**24.12.1993** Service defect: 'UN - AIR COND UNIT REMOVED FOR REPAIRS,DATA LOGGER REMO'.
**24.12.1993** Service defect: 'UN - VED FOR CLP9.FILTER BLOWER MOTOR AND FAN TO CHECK'.
**24.12.1993** Service defect: 'UN - A/C SUSPECT FAN.24/12/93.'.
**03.02.1994** Service defect: 'SW - AIR CONDITIONING - NO AIR CONDITIONING UNIT ON THIS LOCO]]'.
**03.02.1994** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO NOT WORKING - NO SPARES AVAILABLE - OK TO TRAIL.'.
**15.02.1994** Service defect: 'UN - ENGINE - AUX DRIVE SHAFT COLLAPSED,CAMSHAFT DAMAGED - REPLACED,SMALL CRACKS WELDED IN PARTITION,ETC.'.
**15.02.1994** Service defect: 'UN - GENERAL - THRU WORKING MODS CARRIED OUT'.
**26.02.1994** Service defect: 'UN - EXHAUST - EXHAUST STACK GASKETS REPLACED.'.
**07.04.1994** Service defect: 'SW - ENGINE - H.E.P SERVICE COMPLETED AS PER SERVICE SHEETS.'.
**08.04.1994** Service defect: 'SW - BOGIE - D/LIFT - CENTRE WEAR PLATES OILED, INSPECTED OK, LOCO RECONNECTED.'.
**30.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - INTERCOOLER COMPRESSOR GASKET CHANGED.'.
**30.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - FRONT SANDERS REPLUMBED.'.
**09.05.1994** Service defect: 'UN - ENGINE - H.E.P UNIT PLUGS REMOVED AND REINSULATED AND REWELDED TO PREVENT WATER SEEPAGE.'.
**16.06.1994** Service defect: 'UN - GENERAL - PTU INSPECTION COMPLETED, OK FOR TRAFFIC.'.

**CLP 13**

Details: locomotive 'CLP 13 S' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 11.11.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED 'NUKUNU'
**BSG Code:** LSAN

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| SW Service Mileage: | 735421 KM | SW Service Date: | 02.04.1997 |
| A Service Mileage: | 53701 KM | A Service Date: | 25.02.1994 |
| WT Service Mileage: | 61848 KM | WT Service Date: | 23.03.1994 |
| US Service Mileage: | 762586 KM | A Service Date: | 11.03.1997 |

**25.11.1993** Service defect: 'UN - FUEL SYSTEM - REPAIRED H.E.P. FUEL LINE, A/C SPLIT FLARE.'.
**25.11.1993** Service defect: 'UN - LUBRICATING SYSTEM - 2 OIL PUMP HOUSING BOLTS REPLACED.'.
**03.12.1993** Service defect: 'UN - ENGINE - OIL PUMP REMOVED A/C GRINDING GEARS & LEAKING (BOLT SHEAR) -REPLACED WITH A.N. RECONDITIONED UNIT - 180H56-80E-137.'.
**03.12.1993** Service defect: 'UN - GENERAL - FUEL TANK SPLIT - DEGASSED THEN WELDED UP - TESTED OK.'.
**10.12.1993** Service defect: 'TW - FUEL SYSTEM LINES - FUEL LINE TO NO. ONE HEP UNIT REPAIRED.'.
**10.12.1993** Service defect: 'TW - GENERAL - T/WEEKLY PERFORMED.'.
**11.12.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - TLPR CONTACTS FOUND BLOWN A/C CHATTERING. TLPR REPLACED. EARTH ON TL PUMP REPAIRED.'.
**11.12.1993** Service defect: 'UN - OTHER BODY REPAIRS - DOOR SEAL REPAIRED.'.
**21.12.1993** Service defect: 'UN - BOGIE - SENT TO WTM, A/C 3 INCH FLAT.'.
**23.12.1993** Service defect: 'TW - GENERAL - TRIP WEEKLY.'.
**23.12.1993** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - RIGHT HAND AFTER COOLER GASKET REPLACED, A/C BLOWN OUT.'.
**29.12.1993** Service defect: 'UN - DYNAMIC BRAKE - GRID BLOWER FAILURE FAULT RESET AND LOCO SELF LOADED OKAY. OPERATION OF DYNAMIC CHECKED OKAY.'.

**29.12.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR INTERCOOLER HEADER GASKET REPLACED.D/S COMP. UNLOADER PIPE REPAIRED.’.
**21.01.1994** Service defect: ‘SW - CONTACTOR INTERLOCKS - S36 INTER-LOCKS REPLACED, A/C BROKEN MOVING CONTACTS.’.
**21.01.1994** Service defect: ‘SW - CONTACTOR MISCELLANEOUS - ‘B‘CONTACTOR NOT PICKING UP IN DYNAMIC. BLOWN DIODE AND F.E.T IN SCM REPLACED.’.
**21.01.1994** Service defect: ‘SW - ELECTRICAL MISCELLANEOUS - G/R PROTECTION SYSTEM NOT WORKING. WIRING TO G/R RESISTORS CORRECTED. WIRING TO CR2, CR3 CORRECTED.’.
**21.01.1994** Service defect: ‘SW - TRACTION MOTOR - NO.6 T/M REPLACED, A/C EARTH. NO.3 T/M CLEANED UP, A/C G/R’S. ALL BRUSHES CHANGED.’.
**15.02.1994** Service defect: ‘UN - VIGILANCE - VIGILANCE NOT CANCELLING. DUST BLOWN OUT OF PRESSURE SWITCHES IN THE NOSE COMPARTMENT. CHECKED OK.’.
**16.02.1994** Service defect: ‘UN - BATTERY MAINTENANCE - HEP UNIT BATTERIES CHANGED. EX CLP11.’.
**16.02.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - DATA LOGGER REPAIRS.’.
**16.02.1994** Service defect: ‘UN - OTHER BODY REPAIRS - STAFF EXCHANGER BRACKETS FITTED EX CLP11.’.
**25.02.1994** Service defect: ‘A - GENERAL - MODIFICATIONS CARRIED OUT WHILE IN FOR A SERVICE’.
**22.03.1994** Service defect: ‘UN - CONTACTOR MISCELLANEOUS - EXTENDED RANGE CONTACTORS REPLACED. DC1 AND DC2.. WORK DONE AT QUICK FIX. LOG SHEET 38084. 22/3/94.’.
**29.03.1994** Service defect: ‘UN - GENERAL - SMALL OIL LEAKS’.
**12.04.1994** Service defect: ‘UN - COOLING SYSTEM - ENGINE COOLANT CHANGED, SIGHT GLASS CLEANED.’.
**12.04.1994** Service defect: ‘UN - LUBRICATING SYSTEM - OIL PRESSURE PIPE TO ENGINE PROTECTION UNIT REPAIRED, A/C LEAKING BADLY.’.
**12.04.1994** Service defect: ‘UN - NO FAULT FOUND - ENGINE INSPECTION - OIL IN WATER. NO SPECIFIC FAULTS FOUND.’.
**16.04.1994** Service defect: ‘UN - CONTACTOR MISCELLANEOUS - REPLACED EXTENDED RANGE CONTACTOR, OBSERVERS SIDE FRONT, A/CBLOWN CONTACT. CHECKED OPERATION OK.’.
**26.04.1994** Service defect: ‘TW - BOGIE - BEARING OIL OK. CRATER TOPPED UP.’.
**11.05.1994** Service defect: ‘UN - BOGIE - BOGIE SNUBBERS RE-WELDED A/C BROKEN OFF’.
**31.05.1994** Service defect: ‘UN - FUEL SYSTEM - NO’S 1,2,9 AND 10 EXHAUST STACK GASKETS REPLACED, A/C FUEL LEAKING. FUEL FILTER COCK CLOSED + AIR BOX RETENTION PIPE’.
**19.09.1994** Service defect: ‘UN - ENGINE - INJECTOR PROBLEMS’.
**19.09.1994** Service defect: ‘UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE BROKEN OFF INTERCOOLER AIR COMPRESSOR’.
**19.09.1994** Service defect: ‘UN - INJECTOR PROBLEMS, SAFETY VALVE BROKEN OFF INTERCO’.
**19.09.1994** Service defect: ‘UN - OLER AIR COMPRESSOR - MPC TO REPAIR’.
**99.99.9999** Service defect: ‘UN - REPS.’.

### CLP 14

Details: locomotive ‘CLP 14 E’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 19.11.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED ‘BARNGARLA‘
**BSG Code:** LSAN

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 11.04.1997 | | |
| SW Service Mileage: | 822464 KM | SW Service Date: | 11.04.1997 |
| A Service Mileage: | 41805 KM | A Service Date: | 04.03.1994 |
| B Service Mileage: | 170688 KM | B Service Date: | 28.08.1994 |
| US Service Mileage: | 797512 KM | A Service Date: | 06.03.1997 |

**28.11.1993** Service defect: ‘UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN FOUND U/S - FAN REPLACED (NO.1)’.
**29.11.1993** Service defect: ‘UN - NO FAULT FOUND - LOAD TESTED OK - 3002 HP DYN.BKE TESTED OK’.
**09.12.1993** Service defect: ‘UN - AUXILLARY MACHINES - NO.5 AXLE GENERATOR FOUND FAULTY CAUSING LOSS OF POWER REF.’.
**26.12.1993** Service defect: ‘UN - AUXILLARY MACHINES - FILTER BLOWER MOTOR REPAIRED.’.
**26.12.1993** Service defect: ‘UN - ELECTRICAL MAINTENANCE -WIRING - AXLE GENERATOR MOD. COMPLETED.’.
**26.12.1993** Service defect: ‘UN - EXHAUST - EXHAUST STACK REPAIRED.’.
**15.01.1994** Service defect: ‘UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER FITTED, A/C SHOWS 1940 AMPS.’.
**25.01.1994** Service defect: ‘UN - GENERAL - SRA THROUGH WORKING MODIFICATIONS’.
**28.01.1994** Service defect: ‘UN - ELECTRICAL MISC. MODULES - COMPUTER PROBLEMS - MODULES CHECKED MKCA STAFF RECTIFIED’.
**01.02.1994** Service defect: ‘UN - GENERAL - DOORS ADJUSTED.’.
**01.02.1994** Service defect: ‘UN - MECHANICAL EQUIPMENT COMPRESSOR - REPLACED GASKET ON COMPRESSOR INTERCOOLER, A/C AIR LEAK. REPLACED AIR FILTER ON COMPRESSOR GOV MAGNET VALVE, A/C U/S.’.
**01.02.1994** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES SAFETY VALVE REPLACED.’.

**04.05.1994** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP REPLACED, A/C ENGINE HUNTING.'.
**12.05.1994** Service defect: 'TS - GENERAL - LOCO SENT ON TRIAL RUN FOR SETTING OF WHEEL DIAMETERS INTO COMPUTER.'.
**25.05.1994** Service defect: 'UN - GENERAL - INSPECTION COMPLETED.'.
**02.06.1994** Service defect: 'SW - GENERAL - ALL PTU REPAIRS COMPLERED. LOCO CAB CLEANED UP. LOCO LOAD TESTED - 3100HP, 19PS AIRBOX PRESSURE.'.
**06.06.1994** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAKS ABOVE HEP UNITS SEALED BY M & K STAFF.'.
**09.06.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - 415 V SOCKETS CHECKED FOR PHASE ROTATION. ALL 4 ARE THE SAME'.
**09.06.1994** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - HOSES REPLACED ON SANDING MAGNET VALVES.'.
**09.06.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END DRIVERS SIDE T.P.COCK REPAIRED, CHECKED OK. TRAIN PIPE LEAKAGE 5 KPA IN 5 MINS. BOTH AUTO DRAIN VALVES.'.

**CLP 15**

Details: locomotive 'CLP 15 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.12.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED 'KOKATHA'
**BSG Code:** LSAN

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 29.01.1997 | | |
| SW Service Mileage: | 380842 KM | SW Service Date: | 29.01.1997 |
| A Service Mileage: | 106116 KM | A Service Date: | 22.09.1994 |
| B Service Mileage: | 80563 KM | B Service Date: | 22.06.1994 |
| US Service Mileage: | 377616 KM | A Service Date: | 22.01.1997 |

**10.12.1993** Service defect: 'UN - GENERAL - FAULT I'.
**23.01.1994** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - BOTH RAD. FAN FUSES CHANGED.'.
**23.01.1994** Service defect: 'SW - RADIATOR/PRESSURISING FAN - NO.1 RAD. FAN SWAPPED WITH FAN NO.3 ON CLP9, A/C NO.1 FAN HAS A U/S BEARING.'.
**28.01.1994** Service defect: 'UN - OTHER BODY REPAIRS - DRIVER'S SIDE DOOR AND MIRROR REPAIRED,WALL PANEL REPAIRED'.
**01.03.1994** Service defect: 'A - GENERAL - MINOR ELEC MODIFICATIONS [MKCA| PERFORMED'.
**19.03.1994** Service defect: 'UN - BLOCKED FILTERS - ENGINE AIR INTAKE FILTERS CHANGED.'.
**19.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DATA LOGGER TAKEN FOR CLP9. 20/3.'.
**19.03.1994** Service defect: 'UN - ENGINE - RH AFTER COOLER 5'. LH AFTER COOLER 5 AND A HALF'. TURBO RUN DOWN TIME ONE MINUTE.'.
**19.03.1994** Service defect: 'UN - EXHAUST - EXHAUST MANIFOLD BOLTS TIGHTENED. AIR BOX PRESSURE 14PSI.'.
**19.03.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD. FAN AND TWO RAD. FAN FUSES TAKEN FOR CLF1X. 20/3.'.
**21.03.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INSPECTED.'.
**21.03.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD. FAN AND FUSES CHECKED. OLD FAN EX CLF1 RE-FITTED BACK IN LOCO. LOCO SENT TO PT.AUGUSTA.'.
**29.03.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SALEM MAG VALVE SANDING REPLACED, A/C BLOWING.'.
**16.04.1994** Service defect: 'SW - GENERAL - BOTH H.E.P UNITS SERVICED. (HEP 1) 249.1 HR. (HEP 2) 223.2 HR.'.
**07.05.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS WASHED OUT AND TESTED OK.'.
**12.05.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DRIVERS SIDE ANZ PLUG REPLACED AND MODIFICATION COMPLETED. PHASE ROTATION CHECKED OK.'.
**28.06.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 'B'END MULTIPLE UNIT RECEPTACLE TERMINAL BOARDS CLEANED, A/CDIRTY, CAUSING TL8 AND TL9 FEEDS SIMULTANEOUSLY. CHECKED OK.'.
**28.06.1994** Service defect: 'UN - GENERAL - REAIRS AND INSPECTION COMPLETED.'.
**28.06.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - T/PIPE LEAK REPAIRED.'.
**01.07.1994** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS STEAMED CLEANED.'.
**01.07.1994** Service defect: 'UN - GENERAL - PTU REPAIRS COMPLETED.'.
**22.09.1994** Service defect: 'A - GENERAL - AIR CONDITIONING SYSTEM CHECKED OK'.
**22.09.1994** Service defect: 'A - OTHER BODY REPAIRS - COUPLING REPAIRED OK'.

**CLP 16**

Details: locomotive 'CLP 16 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Date Built:** 14.12.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED ‘MURUNITJA‘
**BSG Code:** LSAN

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| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 09.04.1997 | | |
| SW Service Mileage: | 802732 KM | SW Service Date: | 09.04.1997 |
| A Service Mileage: | 193890 KM | A Service Date: | 08.09.1994 |
| B Service Mileage: | 101398 KM | B Service Date: | 09.06.1994 |
| US Service Mileage: | 801346 KM | A Service Date: | 07.04.1997 |

**17.12.1993** Service defect: ‘UN - CONTACTOR MISCELLANEOUS - LT CONTACTOR STUCK IN, CAUSING BURNING SMELL IN CAB. REPAIRED BY M&K.’.
**23.12.1993** Service defect: ‘TW - GENERAL - TRIP WEEKLY DONE.’.
**07.01.1994** Service defect: ‘TW - GENERAL - OILED, CRATERED AND AXLE BOXES TOPPED UP.’.
**28.02.1994** Service defect: ‘UN - EXHAUST - EXHAUST HOUSING/MUFFLERS CRACKED - REPAIRED AND TESTED OK’.
**02.03.1994** Service defect: ‘UN - AIR CONDITIONING - AIR CONDITIONER REPAIRS COMPLETED (SIGMA).’.
**11.03.1994** Service defect: ‘A - GENERAL - MODS CARRIED OUT FOR THROUGH WORKING,AS WELL AS MKCA MODS’.
**18.03.1994** Service defect: ‘SW - GENERAL - COUPLER WEAR PLATES REPLACED, A/C WORN. TOILET DOOR FRAME CORRECTED.’.
**18.03.1994** Service defect: ‘SW - OTHER BODY REPAIRS - MIRRORS REPLACED. ENGINE ROOM, TOILET AND ALTERNATOR COMPTWASHED.’.
**18.03.1994** Service defect: ‘SW - TOILET TANK REMOVED.18/3/94.’.
**07.04.1994** Service defect: ‘UN - OTHER BODY REPAIRS - DRIVER’S SIDE MIRROR REPLACED A/C BROKEN’.
**01.05.1994** Service defect: ‘TW - BOGIE MAINTENANCE - WICKS - LOCO OILED.’.
**03.06.1994** Service defect: ‘UN - ENGINE - INLINE AIR STRAINERS FITTED TO BRAKE RACK MODULES.’.
**03.06.1994** Service defect: ‘UN - GENERAL - UNDERFRAME INSPECTION - CHECKED OK. CAB CLEANED. ALL TAGS FITTED.’.
**03.06.1994** Service defect: ‘UN - R2 BOGIE SPRING SUSPECT. 3/6.’.
**14.06.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - CONDUIT INSPECTION PLATE INSTALLED. HEP UNIT AND RECEPTACLESOK.’.
**26.06.1994** Service defect: ‘UN - FUEL PUMP MOTOR - FUEL PUMP MOTOR CHANGED, A/C NOT WORKING] MOTOR IN- A731A51.MOTOR OUT- B4140/099316.’.

**CLP 17**

Details: locomotive ‘CLP 17 X’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 128.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 23.12.1993
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2460kw
**Remarks:** NAMED ‘ARABANA‘
**BSG Code:** LSAN

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| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 17.04.1997 | | |
| SW Service Mileage: | 768466 KM | SW Service Date: | 17.04.1997 |
| A Service Mileage: | 36941 KM | A Service Date: | 17.03.1994 |
| B Service Mileage: | 101873 KM | B Service Date: | 07.07.1994 |
| US Service Mileage: | 738741 KM | A Service Date: | 05.03.1997 |

**24.12.1993** Service defect: ‘TW - GENERAL - FIRST TRIP WEEKLY PERFORMED. LOCO OK. OILED AND CRATERED.’.
**24.12.1993** Service defect: ‘UN - FUEL SYSTEM - FUEL IN BYPASS - 60PSI BYPASS VALVE REPLACED. LOCO LOAD TESTCOMPLETED OK.’.
**24.12.1993** Service defect: ‘UN - FUEL SYSTEM PUMP - LEAKING FUEL PUMP - UNABLE TO REPLACE A/C NO PUMP. M&K ADVISED. FUEL PUMP ISOLATED. NOTE HEP PUMP.’.
**12.01.1994** Service defect: ‘UN - BOGIE - NO.’S 2 AND 3 AXLE GENERATOR REPLACED, A/C FAILED. WORK DONEAT PT.AUGUSTA.’.
**12.01.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - CONTROLLER REPLACED BY M&K.’.
**12.01.1994** Service defect: ‘UN - GENERAL - FLOW METER REPLACED.’.
**24.02.1994** Service defect: ‘UN - ENGINE - TURBO PROBLEMS - CRACKS IN EXHAUST,FILTER MODS’.
**24.02.1994** Service defect: ‘UN - GENERAL - MODIFICATIONS CARRIED OUT’.
**17.03.1994** Service defect: ‘A - GENERAL - HATCH INSPECTED,SOME BOLTS CHANGED’.
**29.04.1994** Service defect: ‘UN - MECHANICAL EQUIPMENT COMPRESSOR - TOP GASKET ON AIR COMPRESSOR INTERCOOLER REPLACED, A/C BLOWNCHECKED OK.’.
**10.05.1994** Service defect: ‘TW - BOGIE - OILED AND CRATERED.’.
**30.05.1994** Service defect: ‘UN - DYNAMIC BRAKE - FRONT DYNAMIC FAN CHANGED AND TESTED OK.’.
**30.05.1994** Service defect: ‘UN - FLANGE LUBE OUTPUT PIPE (PUMP TO FLOOR) MISSING,’.
**30.05.1994** Service defect: ‘UN - TO REPLACE. 30/5.’.
**03.06.1994** Service defect: ‘SW - GENERAL - REPAIRS COMPLETED AS PER SHEET. ALL TAGS FITTED, CAB CLEANED’.
**07.07.1994** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - THROTTLE CONTROLLER REPAIRED’.

## 2.16 Locomotive classification starting with 'DA'

**DA 1**

Details: locomotive 'DA 1 P' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $214810
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 17.09.1969
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** EX 849(16.08.91)
**BSG Code:** LSAL

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| Fleet Grp Code: | AH | | |
| Return to Service Date: | 17.01.1997 | | |
| SW Service Mileage: | 44902 KM | SW Service Date: | 28.06.1993 |
| A Service Mileage: | 386269 KM | A Service Date: | 24.07.1996 |
| B Service Mileage: | 332413 KM | B Service Date: | 26.04.1996 |
| C Service Mileage: | 390602 KM | C Service Date: | 16.10.1996 |
| D Service Mileage: | 29540 KM | D Service Date: | 21.10.1992 |
| E Service Mileage: | 444029 KM | A Service Date: | 04.08.1988 |
| US Service Mileage: | 637295 KM | A Service Date: | 17.01.1997 |

**08.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - SHARON AUTOCOUPLERS REPLACED.'.
**27.08.1990** Service defect: 'UN - GENERAL - RHS DOOR GLASS REPLACED.'.
**21.09.1990** Service defect: 'TS - FUEL SYSTEM PUMP - NO3 F.P. TOP SEAL REPAIRED.'.
**15.10.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - L3 WICK REPLACED.'.
**16.11.1990** Service defect: 'UN - COOLING SYSTEM - JOINT ON NO1 WATER RAIL REPLACED A/C LEAKING.'.
**21.12.1990** Service defect: 'SW - BOGIE - BRAKE BLOCKS CHANGED A/C PISTON TRAVEL. LOCO RELEASED AS A DRIVER ONLY LOCO.'.
**01.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - MODIFICATION - ONE/MAN CREWING MODS COMPLETED.'.
**14.08.1991** Service defect: 'UN - EXHAUST - EXHAUST & STACK GASKETS REPLACED A/C LEAKING.'.
**14.08.1991** Service defect: 'UN - FUEL SYSTEM PUMP - ALL FUEL PUMPS TIMED.'.
**16.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - MINOR FAULTS - COMPLETED, RE-NUMBERED FROM 849 TO DA1P.'.
**19.08.1991** Repair 'VEHICLE RECLASSIFY'.
**19.08.1991** Issued at location 'Australian National' with a previous code of locomotive '849 X'
**24.10.1991** Service defect: 'UN - GENERAL - LOG BOOK REPAIRS COMPLETED.'.
**24.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HANGERS ROTATED & BRAKES ADJUSTED.'.
**19.12.1991** Service defect: 'UN - BOGIE - NO 2 & 3 GEARCASES REPAIRED,A/C DERAILMENT.REPLACED NO 4 GEARCASE.'.
**19.12.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED.'.
**19.12.1991** Service defect: 'UN - GENERAL - FRONT & BACK COW CATCHERS STRAIGHTENED,A/C RERAILMENT.'.
**19.12.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L1 & R6 SANDPIPES REPAIRED,A/C DERAILMENT.'.
**17.01.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LMR1 RESISTOR ON GAUGE LIGHTS REPLACED.'.
**23.01.1992** Service defect: 'A - AIR CONDITIONING - AIR CON SERVICED,TESTED OK.'.
**23.01.1992** Service defect: 'A - EARTH FAULT MISCELLANEOUS - EARTH ON POWER & EARTH ON CONTROL FAULTS RECTIFIED.P=10K.'.
**23.01.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - WHEELSLIP ALARM BUZZER REPLACED,HOT ENGINE LIGHT REPLACED.'.
**03.04.1992** Service defect: 'SW - OTHER BODY REPAIRS - WOODEN CHOCK BRACKETS FITTED.'.
**03.04.1992** Service defect: 'SW - VIGILANCE - VIGILANCE RELAY MOUNTED.'.
**06.04.1992** Service defect: 'SW - GENERAL - FRONT MAIN WINDOW R/H WINDOW MOUNT REPAIRED.MARKER LIGHTS CHANGED FOR SINGLE MAN OPERATION.'.
**22.04.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 12 WICKS REPLACED.'.
**14.05.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - SOUND WARNING - HORN TESTING COMPLETED & LOCO PASSED OK.'.
**07.08.1992** Service defect: 'A - LUBRICATING SYSTEM - OIL CHANGED.'.
**07.08.1992** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE REPLACED.'.
**07.08.1992** Service defect: 'A - OTHER BODY REPAIRS - MIRRORS MOVED 350MM TOWARDS REAR AS PER INSTRUCTION.'.
**10.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO ROTARY SCRAPED AND MATING FACE IMPROVED. STILL NOT FREE MOVING.'.
**07.09.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER REPLACED A/C EXPLODED IN NOTCH 8 AT 50KPH.'.
**07.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GENERATOR FIELD RESISTOR REPLACED A/C OPEN CIRCUIT.'.
**07.09.1992** Service defect: 'UN - MAIN GENERATOR - M/GEN. CLEANED, UNDER-CUT, CURED AND PAINTED.'.
**07.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - BATTERY BOX MODS COMPLETED.'.
**07.09.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - T/M'S NO. 1 AND 2 CLEANED A/C FLASH-OVERS.'.
**07.09.1992** Service defect: 'UN - WHEELSLIP - CLEANED, WIRE CHANGED TERMINALS AND RE-INSULATED.'.
**07.09.1992** Service defect: 'UN - WHEELSLIP - W/SLIP WIRE

40D ON RESISTOR TERMINAL BLOCK DOWN TO EARTH ALSO CAUSING TERMINNAL BLOCK TO GO DOWN.TERMINAL BLOCK'.

**14.09.1992** Service defect: 'SW - BATTERY MAINTENANCE - LOCO JUMP STARTED,A/C FLAT BATTERIES.'.

**14.09.1992** Service defect: 'SW - ENGINE WATER LEAK - VICTAULIC RUBBER JOINT REPAIRED,A/C WATER LEAK.'.

**14.09.1992** Service defect: 'SW - GENERAL - FLOOR MOD COMPLETED.'.

**06.10.1992** Service defect: 'TS - OTHER BODY REPAIRS - WINDOW REPAIRS COMPLETED.ROLLER WHEELS REPLACED,A/C WORN.'.

**14.10.1992** Service defect: 'UN - RADIO REPAIR - REMOVED OLD RADIO FEED. COVERED HOLES IN CUBICAL.'.

**21.10.1992** Service defect: 'D - BOGIE MAINTENANCE - WICKS - R1,R2,R3, R5,R6,& L3 WICKS CHANGED.'.

**21.10.1992** Service defect: 'D - ELECTRICAL MISCELLANEOUS - ARC CHUTES REPLACED.'.

**21.10.1992** Service defect: 'D - RADIATOR/PRESSURISING FAN - CONDENSOR FAN MOTOR 'B' REPLACED.'.

**15.12.1992** Service defect: 'TS - AIR CONDITIONING - AIR COND REPAIRED OK.'.

**06.01.1993** Service defect: 'UN - EXHAUST - EXHAUST CONCERTINA (LONG) CHANGED, A/C LEAKING.'.

**06.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV CONTACT TIPS CLEANED.'.

**14.01.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - W/WIPER MOTOR SWITCH REPAIRED OK.'.

**14.01.1993** Service defect: 'A - GENERAL - T/P 'B' END COCK REPAIRED.NO4 FUEL PUMP CHANGED.W/WIPER REP.D/WINDOW LOCKING CLIP REPAIRED.O/SIDE WINDOW ROLLERS REP OK.'.

**14.01.1993** Service defect: 'A - NO FAULT FOUND - AIR/CON.WORKED OK ON PRESERVICE.'.

**02.02.1993** Service defect: 'UN - AIR CONDITIONING - AIR CON REPAIRS COMPLETED.'.

**02.02.1993** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRS COMPLETED.'.

**19.02.1993** Service defect: 'SW - TRACTION MOTOR - NO 3 CONCERTINA REPLACED.'.

**23.04.1993** Service defect: 'C - ENGINE LINER - NO.2 LINER REPLACED A/C WATER LEAKS.'.

**23.04.1993** Service defect: 'C - OTHER BODY REPAIRS - ELECTRICAL CABINET SEALS REPLACED A/C LEAKING.'.

**23.04.1993** Service defect: 'C - MAIN LINE TRIAL RUN FOR INSPECTION'.

**19.05.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPAIRED.'.

**19.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - SLIDING WINDOW SEALS REPAIRED,ELECTRICAL DOOR SEALS REPAIRED'.

**26.05.1993** Service defect: 'SW - BATTERY MAINTENANCE - BATTERY CHANGED.'.

**26.05.1993** Service defect: 'SW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED.'.

**26.05.1993** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - ELECTRICAL CABINET SEALS REPAIRED,RUBBER SEALANT ON TEST.'.

**17.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - SLIDING WINDOW REPAIRED,TESTED OK. RHS DOOR SEAL REPLACED.'.

**17.06.1993** Service defect: 'UN - NEW DOOR & SEALS NEXT SERVICE.17/6.'.

**21.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW (SLIDING) REPLACED,A/C SMASHED.'.

**28.06.1993** Service defect: 'SW - BATTERY MAINTENANCE - BATTERY CHANGE COMPLETED. CHARGING OK 72V.'.

**28.06.1993** Service defect: 'SW - SALEM SANDER VALVES REQ'D,NIL STOCK MPC.28/6.'.

**14.07.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - G.F. AUX CONTACTORS REPLACED.'.

**14.07.1993** Service defect: 'A - FUEL SYSTEM PUMP - FUEL PUMP REPLACED.'.

**14.07.1993** Service defect: 'A - GENERAL - NEW DOOR & SEALS REPLACED.'.

**14.07.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SALEM SANDER VALVES REPLACED.'.

**03.08.1993** Service defect: 'UN - GENERAL - ELEC CAB DOOR SEALS, CAB SEALS REPLACED, CHECKED OK.'.

**07.08.1993** Service defect: 'UN - BOGIE - BOGIE CHANGE WITH 846 COMPLETED, LOCO DIRECTION TESTED OK.'.

**07.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL DRAIN PIPE REWELDED, EXTRA HOSE FITTED.'.

**27.09.1993** Service defect: 'UN - BOGIE - BRAKES SLIPPING - BRAKES ADJUSTED AND CHECKED OK.'.

**27.09.1993** Service defect: 'UN - ENGINE OIL - ENGINE SHUTTING DOWN A/C LOW ENGINE OIL - OIL TOPPED UP & LOCO CHECKED OK.'.

**01.10.1993** Service defect: 'B - GENERAL - HOT PLATE REPLACED WITH SMALL TYPE.'.

**01.10.1993** Service defect: 'B - TRACTION MOTOR - NO.3 T/M TOP B/HOLDER FLASHED LEAVING A DAG RUBBING ON THE COMM. REPAIRED.'.

**06.01.1994** Service defect: 'A - BATTERY MAINTENANCE - D/SIDE BATTERY BOX INSIDE RUNNER DISLODGED AND REPLACED.'.

**06.01.1994** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1 WICK CHANGED, A/C CRATER CONTAMINATION.'.

**06.01.1994** Service defect: 'A - MAIN GENERATOR - MAIN GEN. RISER AND 'V'RING AND END OF SEGMENTS CLEANED AND BLOWN OUT.'.

**06.01.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - NO.4 T/M 3 O'CLOCK BRUSH HOLDER CHANGED, A/C SPRING FLASHED TO EARTH AND MELTED.'.

**25.01.1994** Service defect: 'UN - ENGINE - BEARINGS REPLACED.'.

**25.01.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - ALL SIX HEADS REPLACED.'.

**25.01.1994** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR REPLACED.'.

**25.01.1994** Service defect: 'UN - ENGINE PISTON - ALL CYLINDERS AND RINGS REPLACED, A/C WORN RINGS AND CRACKEDPISTONS.'.

**25.01.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED, A/C WORN OUT.'.

**25.01.1994** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.

**25.01.1994** Service defect: 'UN - GENERAL - LOCO SET UP FROM SCRATCH ON LOAD TANK. EFR4 RESISTOR REPLAC-ED, A/C WOULD NOT REV UP TO NOTCH 8.'.
**25.01.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED, A/C NEW RINGS AND PISTONS.'.
**05.03.1994** Service defect: 'A - BATTERY MAINTENANCE - BATTERY BOX REAR ROLLERS REPAIRED.'.
**05.03.1994** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R6, R5, L5, L2 WICKS REPLACED. R2 OIL FILLER CAP REPLACED.'.
**05.03.1994** Service defect: 'A - GENERAL - D/SIDE WASHER BUTTON REPLACED AND REPAIRED.'.
**05.03.1994** Service defect: 'A - INSULATION WORN - EARTH ON CONTROL REPAIRED. TERMINAL BOX ON C/CASE EXHAUSTERDID NOT HAVE INSULATION ON COVER. INSULATION REPLACED.10K.'.
**23.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AUXILIARY EXCITER BURNT - CLEANED AND REPAIRED CABLES,LUGS'.
**06.04.1994** Service defect: 'UN - AUXILLARY MACHINES - EXCITER CHANGED OUT A/C SEIZED BEARING FAN END'.
**08.06.1994** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED, A/C NOT REGULATING.'.
**08.06.1994** Service defect: 'B - FUEL SYSTEM - FUEL TANK BOLTS TIGHTENED.'.
**08.06.1994** Service defect: 'B - 'A'AND 'B' PACKAGES TO REPLACE, A/C COLLAPSED.8/6.'.

**DA 2**

Details: locomotive 'DA 2 B' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $198950
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 06.04.1960
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** EX 832(19.10.92)
**BSG Code:** LSAL

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| Fleet Grp Code: | AH | | |
| Return to Service Date: | 15.04.1997 | | |
| Last Lift: | 09.12.1987 | | |
| SW Service Mileage: | 30578 KM | SW Service Date: | 29.04.1994 |
| A Service Mileage: | 94721 KM | A Service Date: | 12.02.1997 |
| B Service Mileage: | 90351 KM | B Service Date: | 19.11.1996 |
| C Service Mileage: | 77550 KM | C Service Date: | 13.08.1996 |
| D Service Mileage: | 63627 KM | D Service Date: | 07.02.1996 |
| WT Service Mileage: | 29347 KM | WT Service Date: | 14.03.1994 |
| US Service Mileage: | 101046 KM | A Service Date: | 15.04.1997 |

**03.11.1992** Repair 'VEHICLE RECLASSIFY'.
**03.11.1992** Issued at location 'Australian National' with a previous code of locomotive '832 G'
**31.05.1993** Service defect: 'A - BATTERY MAINTENANCE - ONE BATTERY REPLACED A/C U/S.'.
**31.05.1993** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET CASING BOLTS TIGHTENED.'.
**31.05.1993** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDENT RELEASE VALVE REPLACED.'.
**25.01.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - WARNING LIGHTS REPLACED.'.
**15.03.1994** Service defect: 'SW - VIGILANCE - VIGILANCE REPORTED NOT WORKING. CHECKED OK IN DEPOT. WHEN NOTCHING UP OR DOWN VIG. WILL CANCEL THEN PICK UP AGAIN.'.
**08.04.1994** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R3 AND L4 WICKS AND OIL CHANGED.'.
**08.04.1994** Service defect: 'A - FUEL SYSTEM - FUEL PIPE TO INJECTOR (R5) REPLACED.'.
**08.04.1994** Service defect: 'A - GENERAL - LARGE FRONT BLIND REPAIRED.'.
**08.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR ADJUSTED.'.
**08.04.1994** Service defect: 'A - VIGILANCE - OBS/SIDE VIG BUTTON REPAIRED, A/C STICKING.'.
**23.04.1994** Service defect: 'SW - ELECT - RECEPTACLES/INTER CAR COUPLINGS - RECEPTACLE (MV) REPLACEMENT COMPLETED.'.
**23.04.1994** Service defect: 'SW - GENERAL - ALL OTHER MODS COMPLETED.'.
**29.04.1994** Service defect: 'SW - BATTERY MAINTENANCE - TERMINAL ON BATTERIES CLEANED AND TIGHTENED, TERMINALS GREASED UP, VOLTAGE CHECKED OK.'.
**29.04.1994** Service defect: 'SW - GENERAL - LOG BOOK REPAIRS COMPLETED.'.
**15.06.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY BOXES REPAIRED.'.
**15.06.1994** Service defect: 'UN - COOLING SYSTEM RADIATOR - D/S RADIATOR REPLACED.'.
**23.06.1994** Service defect: 'C - AUXILLARY MACHINES - AUX GEN BRUSHHOLDER (12 O'CLOCK) REPAIRED.'.
**23.06.1994** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 10 WICKS CHANGED, A/C SITTING BELOW RAILS.'.
**23.06.1994** Service defect: 'C - CONTACTOR MISCELLANEOUS - G.F.CONTACTOR REPLACED, A/C TIPS IN CONTACT BOX BADLY BURNT.'.
**23.06.1994** Service defect: 'C - ENGINE WATER LEAK - MARMON BY COMPRESSOR TIGHTENED, A/C WATER LEAK.'.

**DA 3**

Details: locomotive 'DA 3 K' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO

**Original Cost:** $198950
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 23.05.1960
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** EX 835(08.06.93)
**BSG Code:** LSAL

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 04.04.1997 | | |
| Last Lift: | 31.07.1992 | | |
| SW Service Mileage: | 82805 KM | SW Service Date: | 08.01.1997 |
| A Service Mileage: | 82805 KM | A Service Date: | 03.01.1997 |
| B Service Mileage: | 72285 KM | B Service Date: | 21.09.1996 |
| C Service Mileage: | 61601 KM | C Service Date: | 14.03.1996 |
| D Service Mileage: | 50634 KM | D Service Date: | 04.10.1995 |
| F Service Mileage: | 0 KM | A Service Date: | 31.07.1992 |
| US Service Mileage: | 238659 KM | A Service Date: | 04.04.1997 |

**08.06.1993** Repair 'VEHICLE RECLASSIFY'.
**08.06.1993** Issued at location 'Australian National' with a previous code of locomotive '835 K'
**25.08.1993** Service defect: 'A - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B' END RECEPTACLE REPAIRED A/C BROKEN COVER. WELDED BACK ON.'.
**25.08.1993** Service defect: 'A - ELECTRICAL MISC. VOLTAGE REGULATOR - VOTAGE REGULATOR CHANGED AND ADJUSTED.'.
**25.08.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - BALLAST RESISTOR REPLACED. GAUGE LIGHT RESISTORS REPAIRED. GROUND RELAY REPLACED.'.
**25.08.1993** Service defect: 'A - ENGINE GOVERNOR ELECTRICAL - GOVERNOR REPLACED A/C EARTH IN LOAD CONTROL RHEOSTAT.'.
**25.08.1993** Service defect: 'A - OTHER BODY REPAIRS - SHARP EDGES REMOVED FROM EDGES OF DOORS.'.
**25.08.1993** Service defect: 'A - VIGILANCE - VIG. CIRCUIT BREAKER RESEALED.'.
**03.09.1993** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - MOD ON TRAINLINE T.B. CARRIED OUT. CONDUIT FROM AIR/CON CLUTCH WIRES FIXED.'.
**03.09.1993** Service defect: 'SW - RADIATOR/PRESSURISING FAN - MARMON COUPLING IN RAD FAN AREA REPLACED. BULLDOG CLIP INSTALLED.'.
**20.09.1993** Service defect: 'UN - TRACTION MOTOR - NO 1 T/MOTOR REPLACED, A/C ARMATURE. T/M IN- 264703 E136. T/M OUT- 274710 E132.'.
**07.12.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - NO 2 AXLE SUPPORT BEARINGS REPLACED, A/C WORN.'.
**07.12.1993** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - GASKET REPLACED ON COMPRESSOR DISCHARGE FLANGE, A/C GASKET BLOWN.'.
**21.02.1994** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R4,R5 AND L5 WICKS REPLACED. L4,L6 AND R6 WICK OIL REPLACED.'.
**21.02.1994** Service defect: 'A - CONTACTOR EP VALVES - 1 SANDING MAGNET VALVE CHANGED 'B'END, A/C BLOWING.'.
**21.02.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 1 BRUSH CHANGED IN FUEL PUMP, A/C BROKEN SPRING.'.
**21.02.1994** Service defect: 'A - ENGINE WATER LEAK - NO6 HEAD(ELBOW) REPAIRED, A/C WATER LEAK.'.
**21.02.1994** Service defect: 'A - FUEL SYSTEM INJECTORS - INJECTORS 1 & 4 REPLACED.'.
**21.02.1994** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'END KNUCKLE REPLACED, A/C WORN.'.
**21.02.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE LEAK REPAIRED.'.
**18.03.1994** Service defect: 'UN - GENERAL - 'A'END T/M BLOWER REPORTED AS NOISY. CHECKED OK IN DEPOT. BEARING RE-GREASED.'.
**18.03.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK ON OIL LINE INTO OIL COOLER REPAIRED.'.
**18.03.1994** Service defect: 'UN - OTHER BODY REPAIRS - WALKWAYS AND FOOT PLATES WASHED, A/C OILY.'.
**13.04.1994** Service defect: 'UN - GENERAL - LOG BOOK REPAIRS COMPLETED.'.
**13.04.1994** Service defect: 'UN - VIGILANCE - SEAL V/CONTROL - SEALED.'.
**11.05.1994** Service defect: 'C - ELECTRICAL MISC. HEADLIGHT - 'A' AND 'B'END HEADLIGHT FAILURE LIGHTS REPAIRED.'.
**11.05.1994** Service defect: 'C - ENGINE - CRANKCASE EXHAUSTER BOLTS TIGHTENED, A/C FUMES IN CAB.'.
**11.05.1994** Service defect: 'C - OTHER BODY REPAIRS - 'A'END MIDDLE HAND RAIL SUPPORTS CUT TO NOSE HEIGHT AND PAINTED.'.

**DA 4**

Details: locomotive 'DA 4 T' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $198950
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 30.06.1960
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** EX 839(22.04.94)
**BSG Code:** LEAL

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Last Lift: | 07.08.1993 | | |
| SW Service Mileage: | 59470 KM | SW Service Date: | 21.09.1995 |
| A Service Mileage: | 117504 KM | A Service Date: | 11.08.1992 |
| B Service Mileage: | 1688163 KM | B Service Date: | 26.03.1992 |
| C Service Mileage: | 1661613 KM | C Service Date: | 01.08.1991 |
| D Service Mileage: | 1547957 KM | D Service Date: | 24.10.1988 |
| F Service Mileage: | 117504 KM | A Service Date: | 07.08.1993 |
| US Service Mileage: | 26368 KM | A Service Date: | 13.04.1995 |

**22.04.1994** Repair 'VEHICLE RECLASSIFY'.
**22.04.1994** Issued at location 'Australian National' with a previous code of locomotive '839 A'
**09.06.1994** Service defect: 'CA - CONTACTOR MISCELLANEOUS - FIELD SHUNTS ADJUSTED AND FOREIGN BODIES REMOVED.'.
**09.06.1994** Service defect: 'CA - EARTH FAULT MISCELLANEOUS - VIGILANCE POWER SUPPLY TRANSISTORS TO EARTH.'.
**06.09.1994** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE CHANGED. INDEPENDANT BRAKE VALVE CHANGED.'.
**22.12.1994** Service defect: 'FA - ENGINE CYLINDER HEADS - HEAD REPLACED DUE TO DROPPED VALVE'.
**22.12.1994** Service defect: 'FA - ENGINE LINER - ENGINE LINER REPLACED DUE TO ABOVE'.
**22.12.1994** Service defect: 'FA - ENGINE PISTON - PISTON REPLACED A/C HOLE IN TOP DUE TO DROPPED VALVE'.
**22.12.1994** Service defect: 'FA - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO FAILED A/C DROPPED VALVE FROM NO 1 HEAD'.
**22.12.1994** Service defect: 'FA - STOP BUTTON NOT WORKING'.
**21.03.1995** Service defect: 'FA - COMPRESSOR VIBRATES SHUNT ONLY UNTIL RECTIFIED'.
**99.99.9999** Service defect: 'SW - SCHEDULED WORK'.

**DA 5**

Details: locomotive 'DA 5 F' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Original Cost:** $198950
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** CB L-6
**Date Built:** 01.01.1959
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** EX 875 (16.05.95)
**BSG Code:** LBAL

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 02.04.1997 | | |
| SW Service Mileage: | 34647 KM | SW Service Date: | 29.11.1996 |
| A Service Mileage: | 27234 KM | A Service Date: | 18.08.1996 |
| B Service Mileage: | 22456 KM | B Service Date: | 19.05.1996 |
| C Service Mileage: | 38015 KM | C Service Date: | 06.03.1997 |
| US Service Mileage: | 40948 KM | A Service Date: | 02.04.1997 |

**DA 6**

Details: locomotive 'DA 6 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $198950
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** CB L-6
**Date Built:** 01.06.1960
**Operating System:** AN
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** EX 836 T
**BSG Code:** LBAS

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 16.10.1994 | | |
| Last Lift: | 16.10.1994 | | |
| SW Service Mileage: | 1701786 KM | SW Service Date: | 26.10.1993 |
| A Service Mileage: | 1702753 KM | A Service Date: | 04.11.1993 |
| B Service Mileage: | 1700179 KM | B Service Date: | 12.08.1993 |
| C Service Mileage: | 1671187 KM | C Service Date: | 05.03.1993 |
| D Service Mileage: | 1567302 KM | D Service Date: | 19.02.1990 |
| F Service Mileage: | 1711719 KM | A Service Date: | 16.10.1994 |
| WT Service Mileage: | 1532114 KM | WT Service Date: | 31.05.1989 |
| US Service Mileage: | 1705535 KM | A Service Date: | 01.12.1993 |

**29.02.1996** Repair 'VEHICLE RECLASSIFY'.
**29.02.1996** Issued at location 'Australian National' with a previous code of locomotive '836 T'

## 2.17 Locomotive classification starting with 'DL'

**DL 36**

Details: locomotive 'DL 36 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 121.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 20.02.1988
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**Remarks:** NAMED 'PETER MORRIS'
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 28.09.1992 | | |
| SW Service Mileage: | 903593 KM | SW Service Date: | 31.10.1996 |
| A Service Mileage: | 793246 KM | A Service Date: | 27.06.1996 |
| B Service Mileage: | 862601 KM | B Service Date: | 03.10.1996 |
| C Service Mileage: | 482430 KM | C Service Date: | 24.03.1995 |
| D Service Mileage: | 401527 KM | D Service Date: | 07.07.1994 |
| F Service Mileage: | 836172 KM | A Service Date: | 28.09.1992 |
| WT Service Mileage: | 405456 KM | WT Service Date: | 10.04.1990 |
| US Service Mileage: | 875735 KM | A Service Date: | 25.10.1996 |

**07.07.1989** Service defect: 'UN - ENGINE - ENGINE BOOKED FOR SHUT DOWN.CHECKED OK.'.

**13.07.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**13.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(3),R.3(2) - L.4(2),R.4(0)'.

**13.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(3),R.5(1) - L.6(5),R.6(4)'.

**13.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORDED - L.1(6),R.1(0) - L.2(2),R.2(7)'.

**20.07.1989** Service defect: 'UN - BROKEN VALVE - DROPPED VALVE - NO.12 CYL HEAD REPLACED A/C SPINNING. - VALVE BRIDGES REPLACED ALSO.'.

**20.07.1989** Service defect: 'UN - NO FAULT FOUND - SHUTTING DOWN - SELF/LOAD TEST COMPLETED,LOCO NOT FAULTED.'.

**31.07.1989** Service defect: 'UN - AUXILLARY MACHINES - GEAR CRACKED - NEW AUX/DRIVE GEAR ASSEMBLY INSTALLED.'.

**31.07.1989** Service defect: 'UN - ENGINE - CAM LOBE DAMAGE - CAM SEGMENT 4-6 REPLACED.(NO.4 LOBE U/S) SHUTTING DOWN - PROTECTION UNIT REPLACED.(SUSPECT FAULTY)'.

**31.07.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - FOREIGN NOISE IN TURBO - TURBO REPLACED.(87-E1-1022) - REBUILT TURBO EX.DL37.'.

**01.08.1989** Service defect: 'UN - ENGINE - SHUTTING/DOWN - GOVN.EX.DL46 INSTALLED.'.

**28.08.1989** Service defect: 'UN - GENERAL SHUTDOWN - NO FAULT FOUND A/C SHUTTING DOWN,LOCO TO HAVE TRIAL RUN.'.

**05.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NO.5 & 6 WIRE TO PULSE GENERATOR CHECKED OK.'.

**10.10.1989** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - TRAIN/LINE FAULT - NO.8 PIN IN RECEPTICLE REPAIRED. - REAR J/CABLE REPLACED.(BURNT PIN HOLE)'.

**11.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.3 (3) ,R.3 (2). - L.4 (3) ,R.4 (1).'.

**11.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.5 (3) ,R.5 (1). - L.6 (4) ,R.6 (4). TO PROFILE L.1 SHARP.'.

**11.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1 (8+),R.1 (2). - L.2 (3) ,R.2 (3).'.

**11.10.1989** Service defect: 'B - ENGINE GOVERNOR MECHANICAL - OIL DEVICE - HOT OIL ENG/PROTECTOR CHANGED.(SHUT/DOWN 98C) HOT OIL DEVICE TESTED OK ON BENCH.'.

**16.10.1989** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - L.1 FLANGE 9+ - FULL PROFILE COMPLETED. (CONDEMNED)'.

**17.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.

**23.10.1989** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - FO WIRE ON 100 BOARD REPAIRED A/C NO POWER TO TRAILING UNITS'.

**31.10.1989** Service defect: 'UN - COOLING SYSTEM - RADIATOR CAP REPLACED A/C SUSPECT , NOT HOLDING COOLING SYSTEM PRESSURE.'.

**06.11.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - 'A' VALVE MICRO SWITCH REPLACED A/C FAULTY.'.

**18.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - 6BAGS OF CRATER ADDED TO ALL GEAR CASES.'.

**18.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE LEAKING AIR,REPAIRED & CHECKED OK.'.

**08.01.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - (PARTIAL RUB THROUGHS ON CABLES IN CONDUIT UNDER 90BOARD)'.

**08.01.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS - REPAIRED ON HEAD/LIGHT RESISTOR & ON NL WIRES - IN 90 BOARD.(IN LOOM ACROSS CABINET ON FLOOR)'.

**08.01.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - MODULE & COMPUTER - IOLS 2-7,CPU & LOGIC FAILURE.'.

**08.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - COULD NOT MAINTAIN - 30CW VALVE CLEANED/UP & REPLACED. TRAIN/PIPE PRESS. - (CLOGGED/UP WITH CARBON)'.

**11.01.1990** Service defect: 'A - AIR CONDITIONING - AIR/COND.- MOUNTS REPLACED.'.

**11.01.1990** Service defect: 'A - AUXILLARY MACHINES - FILTERS - REPLACED ON AIR/FRIDGE.'.

**11.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3 (4),R.3(2). - L.4 (7),R.4(4).'.

**11.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5 (5),R.5(2). - L.6 (7),R.6(2). TO BE PROFILED.'.

**11.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(8++),R.1(4). - L.2 (4),R.2(4).'.

**11.01.1990** Service defect: 'A - OVERHEATING - HOT ENGN.REPORTED - ADP MODULE REPLACED.(FANS NOT OPERATING) - (SERIAL NO.86-K-00657)'.

**14.01.1990** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN HAND/RAIL - O/SIDE FRONT LEFT HAND/RAIL RE-WELDED.'.

**16.01.1990** Service defect: 'UN - AUXILLARY MACHINES - AIR/FRIDGE - THERMOSTAT REPLACED,OPERATION CHECKED OK. - (BELLOWS COLLAPSED IN THERMOSTAT)'.

**16.01.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SHORT IN CIRCUIT - 2 NO.SUPPRESSION DIODES REPLACED. (WIRING INCORRECT)- WIRING CORRECTED.'.

**27.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**27.01.1990** Service defect: 'TW - NO FAULT FOUND - WATER LEAK - NO LEAK DETECTED.'.

**09.03.1990** Service defect: 'UN - BOGIE - DERAILMENT CHECK - REPAIRS COMPLETED.'.

**09.03.1990** Service defect: 'UN - WHEELSLIP - - REPLACED

FAN & GRID,OPERATION CHECKED OK'.

**09.03.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP IN DYN.- DYN.COOLING FAN REMOVED TO SKIM COMM. - (FLATS .004 FLATS ON COMM.)'.

**13.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.SPEEDO CALIBRATED A/C EX WTM.'.

**13.03.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - L.1 FLANGE (8++) - PROFILE COMPLETED.'.

**13.03.1990** Service defect: 'WT - TO MILE END FOR BRAKE ADJUST'.

**17.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK -3 BAGS ADDED TO EACH G/CASE.'.

**17.03.1990** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - SWITCH FAULT - GAUGE LIGHT DIMMER REPLACED.'.

**23.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION CHOKE PLATE - MODIFIED CHOKE PLATE INSTALLED. - OPERATION CHECKED OK.'.

**23.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MINIMUM REDUCTION TIME - WITH NEW PLATE 13 SECONDS. FULL SERVICE APPLICATION - ' ' ' 13 ' .'.

**29.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.3(3),R.3(3). - L.4(4),R.4(5).'.

**29.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.5(4),R.5(0). - L.6(6),R.6(2). PROFILED 13/3.'.

**29.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(5),R.1(4). - L.2(3),R.2(5).'.

**29.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - GRID OPEN/CIRCUIT ON COMPUTER SCREEN. - OPERATION NOT FAULTED.'.

**06.04.1990** Service defect: 'D - AIR CONDITIONING - UNIT FAULT - UNIT CHANGED/OUT A/C SHAFT SEAL LEAK. - (UNIT EX.DL50 INSTALLED SERIAL NO.19561-16-J22)'.

**06.04.1990** Service defect: 'D - AUXILLARY MACHINES - AIR/FRIDGE - FILTER ELEMENT REPLACED,WATER/COOLER PIPE REP'D - NEW OIL/MIST FILTER INSTALLED.'.

**06.04.1990** Service defect: 'D - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**06.04.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - - L.3(2),R.3(3). - L.4(5),R.4(5).'.

**06.04.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - - L.5(4),R.5(1). - L.6(7),R.6(3).'.

**06.04.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(6),R.1(4). - L.2(3),R.2(5).'.

**10.04.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR - WHEELS SKIMMED TO CORRECT FLANGE THICKNESS.'.

**22.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL LEVELS CHECKED OK.'.

**27.04.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - DROPPING LOAD - LOCO CHECKED IN DEPOT.(FAULT FINDING) - TESTS RUNS TO ELIMINATE FAULT.'.

**01.05.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DROPPING LOAD - FCS MODULE REPLACED A/C FAULTY. - MODULE TAKEN FROM DL41 TO SOLVE PROBLEM.'.

**04.05.1990** Service defect: 'UN - NO FAULT FOUND - DROPPING LOAD - LOCO CHECKED IN DEPOT,COULD NOT FAULT.'.

**17.05.1990** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT UNPLUGGED.'.

**01.06.1990** Service defect: 'UN - BOGIE - 12 BLOCKS REPLACED ON'A'END BOGIE TO REDUCE TRAVELS.(OLD BLOCKS WHERE IN VERY GOOD CONDITION)'.

**09.06.1990** Service defect: 'SW - BOGIE - NEW BOGIES FITTED.'.

**09.06.1990** Service defect: 'SW - GENERAL - NEW STYLE TOILET FITTED.'.

**09.06.1990** Service defect: 'SW - TRACTION MOTOR - NEW TRACTION MOTORS FITTED.(IN 90DIN04,90DIN01,90DIN03, 90EIN02,90DIN02,90EIN03.)'.

**12.06.1990** Service defect: 'TS - WHEELSLIP - - JUMPER/CABLE REPLACED IN SOCKET & - RECEPTICLE SEALED WITH SILICON.'.

**12.06.1990** Service defect: 'TS - WHEELSLIP - CONTINUOUS WHEEL/SLIP - D/SIDE FRONT RECEPTICLE CHECKED. (WATER IN RECEPTICLE)'.

**16.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**03.07.1990** Service defect: 'A - STARTER MOTOR - STARTER MOTORS REPLACED A/C NO SPARES AVAILABLE LAST 'D' SERVICE.'.

**21.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**02.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - WORK SCHEDULE NO.ME 7553 - COMPLETED.'.

**04.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL CHECKED OK.'.

**13.08.1990** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRE IN ALTERNATOR INSULATED A/C RUBBING ON FRAME.'.

**24.08.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - - LOAD/TESTED OK,MOVEMENT TESTED IN YARD. - CONTACTOR TEST OK.'.

**24.08.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 1&2 WINDING PARTLY SHORTED TO 11&12. (FAULT IN G.R.T.) - 11&12 CHANGED WITH 15&16 WINDING.'.

**27.08.1990** Service defect: 'UN - RADIO REPAIR - RADIO MODIFICATION - COMPLETED.'.

**30.08.1990** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC - IOL.6 CHANGED/OUT EX.DL46.(NO NEG.FEED TO 'B')'.

**14.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(1,2&3),OTHERS OK.'.

**16.09.1990** Service defect: 'UN - ENGINE GOVERNOR - ENGINE HUNTING - GOVERNOR CHANGED.(LOAD/REG RHEOSTAT U/S)'.

**20.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE COCK LEAK - BRAKE PIPE COCK REPLACED.'.

**28.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**18.10.1990** Service defect: 'UN - TO RETURN TO PT AUG AT LATER DATE TO COMPLETE NEW'.

**18.10.1990** Service defect: 'UN - CLYDE MODIFICATIONS'.

**23.10.1990** Service defect: 'UN - NO FAULT FOUND -

SPEEDO FAULT - CHECKED IN DEPOT,SPEEDO WORKING OK.'.

**29.10.1990** Service defect: 'SW - OTHER BODY REPAIRS - CAB BUMP STOP MOD.- COMPLETED.'.

**10.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**03.12.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**14.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**14.12.1990** Service defect: 'TW - SERVICE WATER TANK REQUIRES WELDING. (14/12)'.

**18.12.1990** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - CONTROL EARTH - EARTH FAULT ON 33 BOARD CLEARED.'.

**30.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL LEVELS CHECKED OK.'.

**21.01.1991** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - WHEEL CHECK COMPLETED.'.

**29.01.1991** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - BOGIE ROTATION'.

**08.04.1991** Service defect: 'UN - AIR CONDITIONING - AIR COND REPAIRED.'.

**12.04.1991** Service defect: 'UN - DYNAMIC BRAKE - MODIFICATION - DYN/BRK VENT MOD.COMPLETED.'.

**17.04.1991** Service defect: 'C - ELECTRICAL MISC. HEADLIGHT - FRONT HEADLIGHTS-TERMINAL BLOCK -33 BOARD E14,F14 BURNT. RECONNECTED WIRES USING BOLT,SEPERATE FROM TERMINAL BLOCK.'.

**17.04.1991** Service defect: 'C - TRACTION MOTOR BRUSHES - 92 T/M BRUSHES CHANGED,A/C SHORT.'.

**09.05.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - COPPER SEALS ON INJECTORS CHANGED,OK.'.

**09.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE VALVE CUT OFF VALVE REPAIRED,A/C NOT ISOLATING B/VALVEIN OUT POSITION.'.

**16.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - GAUGE & FLOWMETER CHANGED,TESTED OK.'.

**24.05.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK IN DEPOT.'.

**24.05.1991** Service defect: 'UN - GENERAL - HOT PLATE ELEMENT REPLACED.'.

**24.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE CHANGED,TESTED OK.'.

**24.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN REPLACED,A/C BROKEN IN CAR SMASH.'.

**04.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RE60 RESISTOR REPLACED,R7 RESISTOR REPLACED,A/C HUNTING BADLY IN NOTCH 8.'.

**04.06.1991** Service defect: 'UN - LUBRICATING SYSTEM - HOT OIL DETECT GASKET REPLACED.'.

**18.06.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 7 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**18.06.1991** Service defect: 'TW - ENGINE - HUNTING PROBLEM -'.

**19.06.1991** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - HASLER - BCP & BPP FAULTS REPAIRED, A/C BCP PLUG FALLEN OUT.BPP PLUG LUG DISLODGED.'.

**01.07.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**15.07.1991** Service defect: 'A - AUXILLARY MACHINES - AUX GEN REAR COVER WELDED, A/C BROKEN.FRONT COVER WELDED,A/CSMALL BREAKS.'.

**15.07.1991** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED FUSE IN MAIN GEN, A/C BLOWN.'.

**15.07.1991** Service defect: 'A - LUBRICATING SYSTEM - OIL PUMP GEAR BACK LASH CHECKED OK.'.

**15.07.1991** Service defect: 'A - AIR COND BRUSHES REQ'D FOR COMPRESSOR,NIL STOCK MP'.

**15.07.1991** Service defect: 'A - C.15/7.COMPRESSOR DRIVE COUPLING REQ'D.15/7.'.

**09.08.1991** Service defect: 'UN - GENERAL - TOILET SYSTEM REPAIRED BY SIGMA,A/C TOILET BLOCKED.'.

**02.09.1991** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - FILTER BLOWER MOTOR NOT WORKING A/C FOUND LOOSE WIRING. REPAIRED'.

**12.09.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON REPAIRS COMPLETED.'.

**16.09.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON REPS COMPLETED.'.

**24.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIRBRAKE REPAIRS COMPLETED'.

**16.10.1991** Service defect: 'B - ENGINE GOVERNOR MECHANICAL - GOV LINKAGE ARM BEARING & PIN REPLACED,A/C WORN.'.

**17.10.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - D/SIDE RADIATORS REPLACED,A/C LEAKING WATER.'.

**12.11.1991** Service defect: 'SW - AIR CONDITIONING - AIR CON CHECKED OK IN DEPOT.'.

**18.11.1991** Service defect: 'UN - NO FAULT FOUND - TOILET OPERATION CHECKED,NO FAULT FOUND.'.

**18.12.1991** Service defect: 'TS - TRACTION MOTOR LOOSE PINION - NO 1 T/MOTOR REPLACED,A/C SLIPPED PINION.'.

**14.01.1992** Service defect: 'A - COOLING SYSTEM - COOLANT CHANGED.'.

**14.01.1992** Service defect: 'A - MECHANICAL EQUIPMENT - OIL PUMP BACKLASH CHECKED OK.'.

**14.01.1992** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - COMPRESSOR DRIVE COUPLING CHECKED OK.'.

**14.01.1992** Service defect: 'A - OTHER BODY REPAIRS - EXHAUST HATCH REPAIRED WITH PATCH.A/C CRACKED.'.

**14.01.1992** Service defect: 'A - RADIATOR/PRESSURISING FAN - INDICATORS SET RIGHT WAY.-FCS3 WIRE PUT BACK ON.'.

**14.01.1992** Service defect: 'A - TRACTION MOTOR - AUX. T/M SHUTTER ARM TO CHECK.-M/S TO HOT.'.

**05.03.1992** Service defect: 'UN - TRACTION MOTOR - NO2 T/MOTOR REMOVED A/C SLIPPED PINION.T/MOTOR DISASSEMBLED AND REASSEMBLED WITH RECONDITIONED MOTOR.'.

**12.03.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - HIGH SPEED FAN CONTACTOR BURNT OUT .REPLACED OK.'.

**12.03.1992** Service defect: 'TS - MECH. EQUIPMENT RADIATOR FAN GEARBOX - RADIATOR FAN

CONECTION REVERSED A/C NO1 FAN GOING IN WRONG DIRECTION.'.

**15.04.1992** Service defect: 'D - GENERAL - DOOR HANDLE REPLACED,FRIDGE SERVICED.'.

**15.04.1992** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAKS REPAIRED.'.

**28.09.1992** Service defect: 'F - - GOVERNOR ELECT CABLE MODIFIED.'.

**28.09.1992** Service defect: 'F - ALTERNATOR - NEW ALTERNATOR FITTED.'.

**28.09.1992** Service defect: 'F - BOGIE - ORIGINAL BOGIES REINSTALLED.'.

**28.09.1992** Service defect: 'F - COOLING SYSTEM RADIATOR - MECHANICALLY BONDED RADIATORS FITTED (NEW).'.

**28.09.1992** Service defect: 'F - ENGINE - AROUND GEAR TRAIN HOUSING A/C MISSING. COUNTER WEIGHT BOLTS CHECKED FOR TORQUE ETC.'.

**28.09.1992** Service defect: 'F - ENGINE - ENGINE CHANGE A/C FAILED CAMSHAFT COUNTERWEIGHT BOLTS. USED ENG FITTED EX DL41 O/HAULED EX BATHURST.S/NO 87-E1-1003'.

**28.09.1992** Service defect: 'F - ENGINE - ENGINE RETIMED A/C HUNTING AND LACK OF POWER. NO10 POW ASSY REPLACED A/C BOLT FOUND ON TOP OF PISTON. BOLTS FITTED'.

**28.09.1992** Service defect: 'F - FUEL SYSTEM - NEW FUEL TANK FITTED.'.

**28.09.1992** Service defect: 'F - OTHER BODY REPAIRS - LOCO PAINTED OUTSIDE AND INTERIOR AT PT AUG. NEW WINDOWS FITTED AT MPC.'.

**28.09.1992** Service defect: 'F - REPAINT INTERIOR & EXTERIOR,RECALIBRATE WHB,REPAIR'.

**28.09.1992** Service defect: 'F - OIL SYSTEM,INSTALL SEATS,PROPER SEQUENCE TEST,AND'.

**28.09.1992** Service defect: 'F - MAYBE EVEN A CLEAN PT.AUG WILL DO IT.'.

**28.10.1992** Service defect: 'SW - GENERAL - CAB FITTINGS COMPLETED. LOCO OK ON TRIAL RUN, 2980 HP NOTCH 8.'.

**19.11.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - MOTOR BRAKING TRANSFER SWITCH REPLACED, A/C DRY CLUTCH NOISE'.

**19.11.1992** Service defect: 'UN - EXHAUST - 2 EXHAUST BOLTS REPLACED, A/C MISSING.'.

**19.11.1992** Service defect: 'UN - GENERAL - ENGINE ROOM DOOR FRAME WELDED.'.

**05.12.1992** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - RUBBER WRAPPED AROUND CABLE LOOM TO PREVENT RUBBING.'.

**05.12.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - NO 5 T/MOTOR TOP BRUSH HOLDER REPLACED, A/C BROKEN.'.

**15.01.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER CHECKED OK.'.

**15.01.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AUXILLARY GENERATOR C/BREAKER FITTED AND TESTED OK.'.

**15.01.1993** Service defect: 'UN - GENERAL - TOILET UNIT REPLACED.'.

**23.02.1993** Service defect: 'B - GENERAL - RATTLE IN AIR COND. UNIT REPAIRED.'.

**23.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - FORWARD SANDERS CHECKED OK'.

**12.04.1993** Service defect: 'UN - GENERAL - TOILET UNBLOCKED,FLUSHES,CLEANED & TESTED OK.'.

**19.04.1993** Service defect: 'UN - NO FAULT FOUND - FOWARD SANDERS NOT WORKING - ALL RELATIVE VOLTAGES CHECK OK RV INTERLOCKS CHECK OK. PLACED NEGATIVE FEED TO SANDERS AT'.

**12.05.1993** Service defect: 'A - BOGIE - R3 SNUBBER BLOCK SECURED TO BOGIE FRAME (REWELDED). L1 FLANGE LUBRICATOR BRACKET TIGHTENED.'.

**12.05.1993** Service defect: 'A - DYNAMIC BRAKE - D/B COVER REPAIRED,HATCH BOLTS & PARTITION REPAIRED.'.

**12.05.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R1 & L1 SAND NOZZLES REPLACED.'.

**12.05.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END BRAKE PIPE HOSE REPLACED.'.

**12.05.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - NO 3 T/MOTOR BRUSH HOLDER CHANGED.'.

**07.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - AIR DRYER FILTER REPLACED.'.

**07.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - DL36 KEPT LOOSING COMP. OIL.INSPECTION FOUND TEST GAUGE LEFTIN AFTER SERVICE. GAUGE LEAKING.GAUGE WAS REMOVED.'.

**23.07.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - TURBO LUBE PUMP WIRING REPAIRED ON 70 BOARD, A/C BLOWN LUG.'.

**23.07.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO LUBE PUMP REPLACEMENT COMPLETED.'.

**23.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR RING REPLACEMENT - CYL LINERS, PISTON & RING REPLACEMENT COMPLETED.'.

**23.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR ISOLATING COCK CHANGED.'.

**30.07.1993** Service defect: 'C - LUBRICATING SYSTEM - OIL PUMP GASKET REPLACED ON OIL COMPRESSOR, A/C OIL LEAK.'.

**30.07.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - BOTTOM BRUSH HOLDER IN NO 3 T/M CHANGED, A/C POSTS BENT & SITTING CROOKED IN CLAMP.'.

**25.08.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED. DIRECTION TESTED OK. WHEEL SHEET TAKEN.'.

**25.08.1993** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - 2 FAN FUSES REPLACED A/C BLOWN. RADIATOR FAN CONTACTORS TESTED AND FOUND OPERATING OK.'.

**28.10.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - SCR PANEL REMOVED FOR INSPECTION, NO FAULT FOUND. PANEL INSTALLED.'.

**28.10.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - DRIVERS SIDE COUPLING LEVER REPLACED.'.

**28.10.1993** Service defect: 'A - EXHAUST STACK TO REPLACE - TEMP WELDED.28/10.'.

**12.11.1993** Service defect: 'UN - DYNAMIC BRAKE - FAULTY GRID REPLACED.'.

**12.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - R34B GRID BLOWER FEEDBACK RESISTOR BOTTOM TERMINAL BLOWN OFFWIRING REPAIRED. LOCO LOAD TESTED OK.'.

**12.11.1993** Service defect: 'UN - 100M COUNTER TO REPAIR OR REPLACE, A/C NIL STOCK.'.
**12.11.1993** Service defect: 'UN - 12/11.'.
**30.11.1993** Service defect: 'UN - CONTACTOR INTERLOCKS - FC52 INTERLOCKS + FCF3 INTERLOCKS CHANGED.'.
**30.11.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - FCF3 WIRE LUG REPLACED.'.
**30.11.1993** Service defect: 'UN - ENGINE - HUNTING PROBLEM RECTIFIED.'.
**30.11.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO EXPANSION JOINT REPLACED.'.
**30.11.1993** Service defect: 'UN - GENERAL - TOILET LEAK REPAIRED.'.
**14.12.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - 2 FUSES ON NO.3 FAN REPLACED.'.
**14.12.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR CHANGED A/C LOCO KEPT HUNTING. LOCO LOAD TESTED OKH.P 2900. LR 96
**14.12.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO.3 RADIATOR FAN REPLACED A/C WINDINGS DOWN TO EARTH. NO.2 HIGH SPEED COIL REPLACED A/C OPEN CIRCUIT.'.
**23.12.1993** Service defect: 'SW - ALTERNATOR - SLIP RINGS MACHINED, A/C TOO PITTED CAUSING BRUSHES TO WEAR RAPIDLY.'.
**24.12.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - LOOSE WIRES ETP1 - WIRES ON 70 BOARD REPAIRED.'.
**14.01.1994** Service defect: 'B - CONTACTOR INTERLOCKS - FCF INTERLOCK CHANGED, A/C U/S.'.
**14.01.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - MANUAL POWER CONTROL RHEOSTAT REPLACED, A/C NOT WORKING.'.
**14.01.1994** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SAFETY VALVE CHANGED.'.
**14.01.1994** Service defect: 'B - OTHER BODY REPAIRS - OBS. SIDE MIRROR REPLACED.'.
**14.01.1994** Service defect: 'B - EXHAUST STACK TO RE-WELD WHEN NEXT IN DEPOT.14/1.'.
**18.01.1994** Service defect: 'SW - EXHAUST - EXHAUST STACK REPLACED EX DL45 A/C CRACKED.'.
**13.04.1994** Service defect: 'A - CONTACTOR INTERLOCKS - FCS3 CONTACTOR CHANGED, A/C WRONG COIL RESISTANCE.'.
**13.04.1994** Service defect: 'A - ENGINE - TOP DECK OF ENGINE CLEANED, A/C VERY DIRTY WITH GRINDING GRIT. LOCO TEST COCKS PAINTED OVER.LOCO LOAD TESTED 2850HP.'.
**13.04.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - BRUSHES REPLACED IN NO'S 1,3,4,5 AND TOP OF 6 T/MOTORS. T/M NO 4 - 9 O'CLOCK BRUSH HOLDER REPLACED, A/C HAMMER U/S.'.
**12.05.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CONTACTOR REPAIRS AND WIRING COMPLETED. FAN TESTED OK.'.
**12.05.1994** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED, A/C BLOWN FUSE. VIG TESTED OK.'.
**26.05.1994** Service defect: 'SW - BOGIE - LOCO PUT BACK ON S.G. BOGIES, ALL MOTORS DIRECTION TESTED OKSPEEDO CHECKED OK.'.
**99.99.9999** Service defect: 'SW - SCHEDULED WORK'.

### DL 37

Details: locomotive 'DL 37 A' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 121.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 13.05.1988
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**Remarks:** STORED A/C DERAILMENT
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 04.01.1996 | | |
| Last Lift: | 04.06.1992 | | |
| SW Service Mileage: | 1690308 KM | SW Service Date: | 14.11.1995 |
| A Service Mileage: | 1602468 KM | A Service Date: | 01.08.1995 |
| B Service Mileage: | 1671963 KM | B Service Date: | 21.10.1995 |
| C Service Mileage: | 1535065 KM | C Service Date: | 13.05.1995 |
| D Service Mileage: | 1300523 KM | D Service Date: | 31.03.1994 |
| F Service Mileage: | 884745 KM | A Service Date: | 04.06.1992 |
| WT Service Mileage: | 1332866 KM | WT Service Date: | 27.05.1994 |
| US Service Mileage: | 1730888 KM | A Service Date: | 04.01.1996 |

**13.07.1989** Service defect: 'SW - BOGIE - DERAILMENT REPAIRS - 4 NO.G/CASES REMOVED/REPAIRED/REPLACED. - SEALS REPLACED ON G/CASES.'.
**19.07.1989** Service defect: 'UN - GENERAL ACCIDENT - NO6 GEARCASE REPAIRED A/C SPLIT.RESULT OF DERAILMENT.'.
**03.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.3 (0),R.3 (3). - L.4 (7),R.4 (1).'.
**03.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.5(10),R.5 (2). - L.6 (6),R.6 (2). TO BE PROFILED.'.
**03.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR - L.1 (4),R.1 (3). - L.2 (5),R.2 (8).'.
**04.08.1989** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - FLANGE CONDITION - FULL PROFILE COMPLETED A/C SHARP FLANGES.'.
**04.08.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT'.
**08.09.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(6),5 BAGS(2,4&5),6 BAGS(1&3).'.
**08.09.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3 (2),R.3 (2). - L.4 (0),R.4 (0).'.
**08.09.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5 (2),R.5 (0). - L.6 (0),R.6 (2).'.
**08.09.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR - L.1 (0),R.1 (2). - L.2 (0),R.2 (2).'.

**06.10.1989** Service defect: 'TS - AUXILLARY MACHINES - * AUX/DRIVE REMOVED TO CARRY/OUT REPAIRS A/C ONLY ACCESS TO * OIL GALLERY WITH/OUT REMOVING TURBO.*'.
**06.10.1989** Service defect: 'TS - ENGINE - * 550+ LITRES ADDED TO SUMP AFTER REPAIRS COMPLETED.*'.
**06.10.1989** Service defect: 'TS - LUBRICATING SYSTEM - LOSS OF OIL - OIL GALLERY SECTION ON TURBO FILTER HOUSING - REPLACED.(* CAUSE * STUDS SHEARED OFF)'.
**20.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INTERMITTENT FAULT NOT FOUND.'.
**23.10.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - N 90 WIRE IN COMP GOVERNOR CIRCUIT FOUND OFF,REPLACED & CHECKED OK.'.
**23.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO 12 PIPE CONNECTION LEAKING A/C LOOSE FITTING.'.
**29.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BATTON HOLDER IN ENGINE ROOM LIGHTS REPLACED A/C LIGHT C/CUTBREAKER TRIPPING.'.
**29.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - NO.1,2,3.(5BAGS),NO.4,5,6.(4BAGS)CRATER ADDED TO GEAR CASES.'.
**10.11.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEADLIGHT SWITCH REPLACED A/C FAULTY'.
**18.11.1989** Service defect: 'UN - ALTERNATOR - OILY SLIP RINGS - SLIP RING AND BRUSHES IN ALT CLEANED UP.'.
**18.11.1989** Service defect: 'UN - BLOCKED FILTERS - FUEL IN BYPASS - FUEL FILTERS REPLACED.'.
**18.11.1989** Service defect: 'UN - BOGIE - BOGIE LUBE - 6 BAGS OF TMGL ADDED TO EACH GEAR CASE.'.
**18.11.1989** Service defect: 'UN - NO FAULT FOUND - ENGINE SLIGHT HUNT AND LOW HORSE POWER - NO FAULT FOUND. ENG INSPECTION OK, EXHAUST SCREEN CHECKED OK, INJECTOR AND'.
**18.11.1989** Service defect: 'UN - NO FAULT FOUND - RACK ADJUSTMENTS OK,SPEEDS CHECKED OK. EX DL44 GOVN SWAPPED WITH DL37 TO CHECK OPERATION. ORIGINAL GOVN REPLACED.'.
**02.12.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - ROMPAK - LOGIC + EXCITATION ROMPAK CHANGED/OUT.'.
**02.12.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO - REPLACED.(SUSPECT FAULTY A/C LOCO SHUTTING/DOWN)'.
**08.12.1989** Service defect: 'B - BOGIE - LUBRICANT CHECK - 3 BAGS(1,2,3&4),4 BAGS(5&6). (TMGL)'.
**08.12.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.3(2),R.3(3). - L.4(2),R.4(4).'.
**08.12.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.5(1),R.5(4). - L.6(0),R.6(6).'.
**08.12.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(3),R.1(5). - L.2(0),R.2(5).'.
**25.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**01.01.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - * TEMP.DISPLAY ON DASH NOT WORKING *'.
**01.01.1990** Service defect: 'UN - OVERHEATING - NO DISPLAY - COMPUTER CHECKED,FULL DISPLAY NO REPORT OF LOCO - HAVING HOT ENGINES.(FANS CHECKED OK)'.
**10.01.1990** Service defect: 'SW - B AUTO COUPLER TO RENEW,FLATS NO 5 W/SET,TO WTM DC'.
**10.01.1990** Service defect: 'SW - K 10/1RN.'.
**17.01.1990** Service defect: 'WT - 21MM. REMOVED FROM 4,5&6 WHEELS'.
**18.01.1990** Service defect: 'SW - 'B'END AUTO COUPLER TO BE REPLACED.(NIL IN STOCK)'.
**18.01.1990** Service defect: 'SW - (18/1)'.
**11.02.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - CAB MOUNTS MODIFIED BY CLYDE PERSONEL. LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.(TMGL)'.
**23.02.1990** Service defect: 'UN - BOGIE - ROUGH RIDING - CAB MOUNTS MODIFIED BY CLYDE STAFF.'.
**23.02.1990** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE FAULT - 30-CW MODULE PORTION, C-2-W RELAY PORTION AND 30A-CDW BRAKE VALVE CHANGED A/C CONTAMINATES'.
**23.02.1990** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE FAULT - IN AIR SYSTEM.'.
**05.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST - PURGED MAIN RES., 12 & 21 PIPES. FOR DETAILED REPORT SEE FILE ME 7553.'.
**05.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST - REMOVED, OVERHAULED & REPLACED. REMOVED TOP COVER OF J1 RELAY VALVE TO CHECK SUPPLY VALVE.'.
**05.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST - SIMULATED TEST CARRIED OUT AT SPENCER JUNCTION ON TRAIN WITH 70 WAGONS. P2A VALVE & FLOWMETER'.
**06.03.1990** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - FUSE BLOWN - ONE POSITIVE BASE DIODE & FUSE BLOWN,REPLACED & CHECKED OK.'.
**06.03.1990** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - COALESCER NOT WORKING - TIMER & CIRCUIT BOARD ASSEMBLY CHANGED A/C BURNT CONNECTIONS AND'.
**06.03.1990** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - COALESCER NOT WORKING - WIRING FAULT.'.
**06.03.1990** Service defect: 'A - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES - TEST VALVE BRIDGES FITTED AND TESTED.'.
**13.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR FLATS'A'BOGIE.CHECKED OK IN DEPOT.'.
**23.03.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - HASLER SHOWING AL13 - WIRE REPAIRED ON HASLER CASSETTE. - (FAULT WAS LOOSE WIRE)'.
**23.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION THROAT

PLATE - MODIFIED CHOKE PLATE INSTALLED. - OPERATION CHECKED OK.'.

**23.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - GASKETS - NEW GASKETS INSTALLED ON SIDE PLATES OF FUEL TANK.'.

**26.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORN LEVER REPAIRED.'.

**27.03.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - AUSTRAC MODS EFFECTED.'.

**28.03.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**28.03.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - NO.1 TEMP PROBE REPAIRED.(OPEN CIRCUIT) - NO.2 TEMP PROBE CHANGED.(FAULTY)'.

**28.03.1990** Service defect: 'UN - TRACTION MOTOR BRUSHES - PULLED PIGTAILS - 39 BRUSHES REPLACED IN ALL T/MOTORS. BRUSHES LOW.'.

**07.04.1990** Service defect: 'UN - GENERAL - 'A'END COUPLING RODS REPAIRED A/C DAMAGED.'.

**21.04.1990** Service defect: 'SW - LUBRICATING SYSTEM - OIL PUMP - GEARS CHECKED OK.'.

**21.04.1990** Service defect: 'SW - OTHER BODY REPAIRS - ROUGH/RIDING -'.

**19.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**25.05.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAKING - O/SIDE NO.1 RADIATOR REPLACED. MODIFICATION - RADIATOR MOD.COMPLETED.'.

**25.05.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - HASLER TELOC 2000 MODIFIED - EPROM CHANGED ON COMPX BOARD, ANINT BOARD CHANGED.'.

**29.05.1990** Service defect: 'D - COOLING SYSTEM RADIATOR - RADIATOR LEAK - O/SIDE NO.1 RADIATOR REPLACED. - (NEW RADIATOR INSTALLED 25/5 LEAKING)'.

**29.05.1990** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR LEAKING'.

**17.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - NO TMGL ADDED. EXCESS TRAVEL - BLOCKS RE-NEWED & BRAKES ADJUSTED.'.

**24.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**21.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRAVELS ADJUSTED,6 BLOCKS REPLACED.'.

**31.07.1990** Service defect: 'UN - BOGIE - BOGIES ROTATED.'.

**04.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**09.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SENT TO WTM A/C FLATS ON WHEELS.'.

**10.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.

**21.08.1990** Service defect: 'UN - TRACTION MOTOR BRUSHES - BRUSHES DAMAGED IN NO5 TM.RETURNED TO PT AUGUSTA FOR REPAIRS'.

**22.08.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - ALL LEVELS CHECKED OK.'.

**22.08.1990** Service defect: 'UN - TRACTION MOTOR - T/MOTOR REPAIRS - BRUSHES & BOTTOM COVER REPLACED. - 4&6 T/MOTOR BRUSHES CHANGED.(MIN.LIMIT)'.

**29.08.1990** Service defect: 'A - RADIATOR/PRESSURISING FAN - BURNT PIN - NO.3 RADIATOR FAN PLUG BASE REPLACED.'.

**29.08.1990** Service defect: 'A - RADIATOR/PRESSURISING FAN - RADIATOR FAN FAILURE - NO.3 RADIATOR FAN REPLACED.(EX.DL46) - FUSES REPLACED NO.3 FAN CIRCUIT.'.

**29.08.1990** Service defect: 'A - STARTER MOTOR - STARTER/MOTORS - REPLACED.'.

**29.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**20.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE REPAIRED A/C BRAKES NOT APPLYING IN AUTO.'.

**05.11.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS(4,5&6),OTHERS OK. (TMGL)'.

**05.11.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FOG/LIGHT - REPLACED.(SMASHED WHEN HIT BEAST)'.

**05.11.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB BUMP STOP MOD.- COMPLETED. HAND/RAIL MOD. - COMPLETED.'.

**05.11.1990** Service defect: 'UN - 'A'END COUPLING LIGHTS TO STRAIGHTEN. (5/11)'.

**14.11.1990** Service defect: 'UN - AUTO BRAKE VALVE TO REPLACE,14/11 TRAIL ONLY.'.

**15.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - IND/BRAKE VALVE FAULT - BRAKE VALVE REPLACED. - (CHECK VALVE FAULTY)'.

**24.11.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**24.11.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DESK/LIGHT U/S - INVERTER REPLACED. (O/SIDE)'.

**24.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - IND/BRAKE VALVE - REPLACED.'.

**30.11.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**30.11.1990** Service defect: 'B - OTHER BODY REPAIRS - DAMAGED LIGHTS - COVERS REPAIRED & NEW SOCKETS FITTED. ('A'END) - (COUPLING LIGHTS)'.

**07.12.1990** Service defect: 'UN - ENGINE - CRAB PLATES - MODIFIED CRAB PLATES FITTED.'.

**07.12.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - - NEW CLUTCH FITTED.'.

**07.12.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACEMENT - TURBO EX.DL48 INSTALLED.(MODIFIED) - (LARGER CLEARANCE BEARING)'.

**16.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**18.12.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE REPAIRS - COMPLETED.'.

**26.12.1990** Service defect: 'UN - AUXILLARY MACHINES - FRIDGE REPAIR - NEW TAP FITTED.(TAP MISSING)'.

**26.12.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.1

T/MOTOR CLEANED/UP.(FLASHED) (BOOKED ENROUTE)'.

**26.12.1990** Service defect: 'UN - VIGILANCE - VIGILANCE BUTTON - REPLACED.'.

**11.01.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - FILLER PIPE REPAIRED A/C HOLED.'.

**08.02.1991** Service defect: 'SW - DYNAMIC BRAKE - (SERIAL NO.88-F-00527.) - FEED/BACK RESIST & CONNECTIONS OK.'.

**08.02.1991** Service defect: 'SW - DYNAMIC BRAKE - * FALSE DYNAMIC BRAKE CURRENT ON COMPUTER AT STAND/STILL *'.

**08.02.1991** Service defect: 'SW - DYNAMIC BRAKE - GRID OPEN IN DYNAMIC - GRIDS & FANS CHECKED OK. - FBL MODULE REPLACED PREVIOUS DAY.'.

**13.02.1991** Service defect: 'UN - ALTERNATOR - TWO DIODES REPLACED A/C GROUND RELAYS TWO FUSES REPLACED A/C GROUND RELAYS'.

**13.02.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS TO TURN A/C NO 3 @ 6 WHEELSETS U/S'.

**13.02.1991** Service defect: 'UN - DYNAMIC BRAKE PROBLEM AWAITING FEEDBACK FROM CLYDE'.

**13.02.1991** Service defect: 'UN - ENGINEERING REGARDING ROM PACK'.

**18.02.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - PIPE TO HEADER TANK REPLACED A/C BROKEN.'.

**26.02.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - SGC CONTACTORS ARCING, CONTACTS CLEANED.LOCO POWER CHECKED OK.'.

**26.02.1991** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYN BRAKE GRID REPLACED,A/C BURNT.'.

**26.02.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - NEW DISPLAY PANEL REPLACED,A/C REMOVED FOR DL 45.'.

**26.02.1991** Service defect: 'UN - OBS SIDE VIG BUTTON ON ORDER A/C NIL STOCK.'.

**28.02.1991** Service defect: 'A - CONTACTOR EP VALVES - COMPRESSOR MAGNET VALVE REPLACED,A/C COM BLOWING OFF AT SAFETY VALVES.'.

**07.05.1991** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED.SANDING GEAR CHECKED OK.'.

**22.05.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - FBL MODULE REPLACED EX DL46,A/C LOCO NOT POWERING UP.'.

**29.05.1991** Service defect: 'C - FCF1 CONTACTOR NOT PICKING UP,A/C COIL FAILURE.'.

**11.07.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO/BRAKE - MODIFIED BRK/VALVE INSTALLED.(FRICTION PAD)'.

**15.08.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMP/GOVN FAULT - LOCO CHECKED IN DEPOT,UNABLE TO FAULT.'.

**20.08.1991** Service defect: 'UN - AIR CON TO BE REPAIRED,20/8.'.

**27.08.1991** Service defect: 'A - TRI-MOUNT PADS TO MONITOR,ONE ON EACH.OBS MIRROR'.

**27.08.1991** Service defect: 'A - TO REPLACE.27/8.'.

**10.09.1991** Service defect: 'SW - COUPLER & WEAR PLATES TO BE REPAIRED AT BOGIE'.

**10.09.1991** Service defect: 'SW - CHANGE.10/9.'.

**20.09.1991** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED,LOCO MOVEMENT TESTED OK.BOGIE SPRINGSREPOSITIONED.'.

**02.10.1991** Service defect: 'UN - FUEL SYSTEM - FUEL FILLER REPAIRED.'.

**02.10.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FANCOIL REPLACED.'.

**10.10.1991** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - BOGIE SPRINGS REPOSITIONED.'.

**25.10.1991** Service defect: 'UN - COOLING SYSTEM - WATER TEMP PROBES REPLACED.LOAD TESTED 20 MINS OK IN DEPOT. ENG TEMP 1-77DEGS.2-77DEGS.HP 3030,MGV-1110.'.

**25.10.1991** Service defect: 'UN - GENERAL - FRIDGE CHECKED OK.'.

**25.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - HASLER BATTERY CHANGED.'.

**08.11.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON REPAIRED TESTED OK.'.

**29.11.1991** Service defect: 'SW - ALTERNATOR - DIODE/FUSE MODIFICATION - COMPLETED.'.

**29.11.1991** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - INSTALLED,TO BE TESTED.'.

**29.11.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN PIN MODIFICATION - COMPLETED.'.

**06.12.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVE REPLACED ON COMPRESSOR DISCHARGE LINE A/C BLOWING'.

**10.12.1991** Service defect: 'B - CONTACTOR EP VALVES - MAGNET VALVE REPLACED FOR FRONT SANDERS.'.

**30.12.1991** Service defect: 'UN - BOGIE - SIDE BEARERS RESHIMMED.'.

**09.03.1992** Service defect: 'UN - MAIN GENERATOR - AUX.GENERATOR BRACKET REPAIRED OK.'.

**13.03.1992** Service defect: 'A - ELECT - RECEPTACLES/INTER CAR COUPLINGS - OBS. FRONT NO.23 PINCHECKED.'.

**13.03.1992** Service defect: 'A - ELECTRICAL MISC. TRANSITION - 2 TANSITION FUSES REPLACED.'.

**13.03.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS BURNT WIRING - LUGS BURNT OFF DIODE FUSES ON ALT.-BUSBAR MADE TO SUIT LUGS ON TWO TERMINALS.'.

**30.03.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - ONE HEADLIGHT REPLACED.'.

**12.05.1992** Service defect: 'UN - COOLING SYSTEM - WATER LINE FROM COMPRESSOR H.P. HEAD TO INTERCOOLER REPLACEDA/C FITTING U/S.'.

**20.05.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - DATTA LOGGER - TIME ADJUSTED & MODULE REPLACED.'.

**20.05.1992** Service defect: 'UN - DRIVERS BRAKE VALVE TO REPLACE ON 'D'SERVICE 4/6.'.

**04.06.1992** Service defect: 'F - BATTERY MAINTENANCE - BATT CHARGE AMMETER CHANGED.'.

**04.06.1992** Service defect: 'F - CONTACTOR MISCELLANEOUS - EPC CONTACTORS REPAIRED,A/C HOT BOLTS. FCS2 CONTACTOR REPLACED.'.

**04.06.1992** Service defect: 'F - TRACTION MOTOR BRUSHES - ALL T/MOTORS BRUSHES CHANGED ON 4,5 & 6 T/MOTORS,A/C FRAYED PIGTAILS.'.

**04.06.1992** Service defect: 'F - AXLE BOXES NOT GREASED A/C NO ALVANIA 'D' IN STOCK'.

**04.06.1992** Service defect: 'F - 4/6.'.

**17.07.1992** Service defect: ‘TS - ENGINE - LOCO DL 37 LOAD TESTED OK. ENGINE STUBB SHAFT REPLACED.’.
**17.07.1992** Service defect: ‘TS - ENGINE GOVERNOR - GOVERNOR REPLACED.-’.
**17.07.1992** Service defect: ‘TS - LUBRICATING SYSTEM - REPAIRED OIL LEAK ON PIPE FROM MICHIANA.’.
**17.07.1992** Service defect: ‘TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR REPLACED AND ALIGNED.ALL PIPING AND ROOF REPLACEDCOMPRESSOR RUN IN FOR 4 HOURS.-COMP.OIL PRESSURE 36 PSI.’.
**20.07.1992** Service defect: ‘TS - RADIATOR/PRESSURISING FAN - NO.2 RADIATOR FAN REPLACED A/C SEIZED.’.
**27.08.1992** Service defect: ‘A - BOGIE - AXLE BOXES GREASED. A/C NOT DONE ON LAST ‘D’ SERVICE.’.
**27.08.1992** Service defect: ‘A - COOLING SYSTEM - COOLANT CHANGED AND SYSTEM FLUSHED.’.
**27.08.1992** Service defect: ‘SW - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT CHANGED A/C U/S.’.
**20.11.1992** Service defect: ‘SW - BOGIE - BOGIE ROTATION COMPLETED.’.
**20.11.1992** Service defect: ‘SW - ENGINE TURBOCHARGER/SUPERCHARGER - COUNTERWEIGHT INSPECTION OK ON TURBO.’.
**20.11.1992** Service defect: ‘SW - FUEL SYSTEM - NEW FUEL TANK FITTED.’.
**20.11.1992** Service defect: ‘SW - GENERAL - O/SIDE WINDOW FITTED. PERSPEX FITTED TO CAB ACCESS DOORS. MIRROR FITTED.’.
**16.12.1992** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - L.T. EARTH & D/B PROBLEMS, EARTH ON FLANGE LUBE, VALVE DISCONNECTED & TRIAL RUN OK. RELAY TAPED UP FOR SECURITY &’.
**18.01.1993** Service defect: ‘UN - BOGIE - ’B’END SHOCKER RUBBERS CHANGED. ’A’END SHOCKER REPLACED A/C WRONG TYPE FITTED.’.
**19.01.1993** Service defect: ‘UN - CONTACTOR MISCELLANEOUS - SGC CHECKED OK.ALUMINIUM STOPPER FOR MAIN COIL CONTACTER ARMFOUND IN BOTTOM OF CABINET,OTHER ONE STILL OK.’.
**19.01.1993** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - RADAR CHECKED OK. LOAD REGULATER CHECKED OK.’.
**06.05.1993** Service defect: ‘C - BOGIE - R1,R6,L1 & L2 PEDESTAL LINERS CHANGED,A/C CRACKED. ‘A‘END BOLSTER SHOCK ABSORBER CHANGED,A/C U/S.’.
**06.05.1993** Service defect: ‘C - ENGINE CYLINDER HEADS - NO 10 CYLINDER HEAD CHANGED, A/C WATER LEAK.’.
**06.05.1993** Service defect: ‘C - ENGINE WATER LEAK - Y PIECE GASKET REPLACED, A/C WATER LEAK.’.
**06.05.1993** Service defect: ‘C - EXHAUST - EXHAUST GASKET CHANGED (MIDDLE STACK).’.
**06.05.1993** Service defect: ‘C - GENERAL - D/SIDE SEAT REPLACED. D/SIDE MIRROR REPAIRED. W/SCREEN WASHERS REPAIRED. DRIVERS/SIDE WINDOW REPAIRED. OBS/SIDE ARM’.
**06.05.1993** Service defect: ‘C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE LEAK REPAIRED.’.
**06.05.1993** Service defect: ‘C - OTHER BODY REPAIRS - ‘B‘END R.H. SIDE STEP BOLTS REPLACED,A/C BROKEN.’.
**23.07.1993** Service defect: ‘A - COOLING SYSTEM WATER PUMP - BOTH WATER PUMPS REPLACED.’.
**23.07.1993** Service defect: ‘A - ENGINE WATER LEAK - PIPE TO HEADER TANK TIGHTENED, A/C LEAKING.’.
**23.07.1993** Service defect: ‘A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO KM TRIP COUNTER FIXED & RESET.’.
**14.10.1993** Service defect: ‘B - TRACTION MOTOR BRUSHES - A LOT OF BRUSHES HAD FRAYED PIGTAILS. THE BRUSHES WERE HARDLY WORN. STANDARD EMD BRUSHES. 64 BRUSHES IN TOTAL.’.
**30.11.1993** Service defect: ‘UN - MECHANICAL EQUIPMENT BRAKE VALVE - DOUBLE CHECK VALVE CHANGED, LEAKS REPAIRED, TESTED OK.’.
**07.01.1994** Service defect: ‘A - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE CHANGED500BSI. KEPT OLD COIL, A/C OK.’.
**07.01.1994** Service defect: ‘A - TRACTION MOTOR BRUSHES - COMPLETE BRUSH CHANGE ON T/M’S.’.
**07.01.1994** Service defect: ‘A - MIDDLE RADIATOR ON BOTH BANKS LEAKING.MECH BONDED’.
**07.01.1994** Service defect: ‘A - TO REPLACE..7/1/94.’.
**21.01.1994** Service defect: ‘SW - BOGIE - NO.4 W/SET CHANGED, A/C FLANGE #25. NO.‘S 1&5 W/SETS POSITION SWAPPED,A/C FLANGE SIZE.’.
**31.03.1994** Service defect: ‘D - BOGIE - FLANGE LUBE AIR PIPES REPLACED AND BRACKETS MODIFIED.’.
**31.03.1994** Service defect: ‘D - ELECTRICAL MISCELLANEOUS - D75 CCMV REPLACED, A/C STICKY. RECONNECTED PC 100X WIRE AT 100 BOARD, SUPPLIES POWER TO FLANGE LUBE.’.
**31.03.1994** Service defect: ‘D - ENGINE AIR FILTERS - ENGINE AIR FILTERS CHANGED.’.
**31.03.1994** Service defect: ‘D - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE ON COMPRESSOR REPLACED.’.
**31.03.1994** Service defect: ‘D - MECHANICAL EQUIPMENT SANDING GEAR - FWD SANDERS REAR BOGIE CUT BACK IN AND SANDERS CLEARED OF WET SAND.’.
**31.03.1994** Service defect: ‘D - NO 1 M/R AUTO DRAIN VALVE TO REPLACE.31/3.’.
**13.04.1994** Service defect: ‘SW - BOGIE MAINTENANCE - WHEELS - NO 4 WHEELSET REPLACED, A/C CONDEMNED FLANGE WEAR. DIRECTIONTESTED OK.’.
**16.05.1994** Service defect: ‘UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - JUMP START SOCKET REPLACED.’.
**07.06.1994** Service defect: ‘UN - CONTACTOR MISCELLANEOUS - S.T. CONTACTOR REPLACED, A/C HIGH RESISTANCE FAULT. LOCO JUMP STARTED, VESTIBULE CLEANED OF WATER.’.
**16.06.1994** Service defect: ‘UN - BATTERY MAINTENANCE - ALL BATTERY CONNECTIONS TIGHTENED AND BATTERIES TOPPPED WITHWATER. ALL MAJOR POWER CABLES CHECKED OK.’.
**16.06.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - ELECT CONNECTOR , L.P.S. ON BACK OF POWER SUPPLY LOOSE, CAUSING FAULTS THAT HAVE BEEN OCCURING. SECURED IN HOLDER &’.
**17.06.1994** Service defect: ‘UN - BATTERY MAINTENANCE - ALL BATTERIES REPLACED.’.
**17.06.1994** Service defect: ‘UN - BOGIE - ALL SHOCK ABSORBERS AND TRIMOUNTS CHECKED OK, A/C ROUGH RIDING REPORTED.’.

**25.06.1994** Service defect: 'A - BOGIE - 'A'END BOLSTER WEAR PLATES WORN - 4 CHANGED.'.
**25.06.1994** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - REPAIRS TO MODULE CB AND WIRING COMPLETED, A/C STARTING PROBLEM.'.
**25.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - SAFETY VALVE 135/6 CHANGED. A1 CHARGING VALVE REPLACED.'.
**25.06.1994** Service defect: 'A - TRACTION MOTOR - T/M'S NO'S 3 AND 6 BOTTOM COVER CATCHES REPAIRED.'.
**29.06.1994** Service defect: 'UN - BOGIE - ROUGH RIDING - REMOVED SHIM ON OBS/SIDE CAB CLEARANCE.'.
**29.06.1994** Service defect: 'UN - TRACTION MOTOR - NO 4 T/M WEAR PLATE REWELDED (NO SUSPENSION).'.

**DL 38**

Details: locomotive 'DL 38 J' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 17.06.1988
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 17.04.1997 | | |
| Last Lift: | 16.04.1995 | | |
| SW Service Mileage: | 468465 KM | SW Service Date: | 30.12.1996 |
| A Service Mileage: | 530086 KM | A Service Date: | 04.04.1997 |
| B Service Mileage: | 388711 KM | B Service Date: | 13.09.1996 |
| C Service Mileage: | 214316 KM | C Service Date: | 19.02.1996 |
| D Service Mileage: | 1336387 KM | D Service Date: | 02.06.1994 |
| F Service Mileage: | 1520720 KM | A Service Date: | 16.04.1995 |
| WT Service Mileage: | 1343717 KM | WT Service Date: | 14.07.1994 |
| US Service Mileage: | 537219 KM | A Service Date: | 17.04.1997 |

**21.08.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - SERIES GENERATOR CONTACTOR / LOOSE CONNECTION BEHIND MOTOR CIRCUIT BREAKER.'.
**22.08.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - S.G.C. SERIES GEN CONTACTOR PILOT COIL,OPEN CIRCUIT, REPLACED COIL FROM DL-36.A/C NO POWER AFTER TRANSITION.'.
**13.09.1989** Service defect: 'UN - RADIO REPAIR - RADIO - REPOSITIONED.'.
**13.09.1989** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - AUTO/BRK VALVE REPLACED & CHOKE CLEARED.'.
**25.09.1989** Service defect: 'UN - BOGIE - SEIZED LINKAGES - L.1&2,R.2 LINKAGES FREED & LUBRICATED. - (BRK/CYL.PISTON NOT RETRACTING FULLY)'.
**25.09.1989** Service defect: 'UN - NO FAULT FOUND - HUNTING NOTCHES 7&8 - LOCO LOAD/TESTED IN DEPOT,NOT FAULTED. - ELECTRICAL CIRCUIT/CONTACTS CHECKED OK'.
**03.10.1989** Service defect: 'SW - ELECTRICAL MISC. MODULES - HIGH CURRENT WHEN DYNAMIC INITIATED - ROMPAK EX.DL40 FITTED. * LOGIC NO.5G88LP08-01679,EXCITATION NO.5G88EP05-01780 *'.
**26.10.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FCF2A CONTACTOR BURNT OUT.SCREW LOOSE ON CONTACTOR.IOL4 REPLACED A/C FAULTY ON HIGH SPEED FCF2 OUTPUT.ALSO PICKED UP'.
**16.11.1989** Service defect: 'A - ALTERNATOR - ALTERNATOR FUSE & 2.DIODE FUSES REPLACED A/C BLOWN.'.
**16.11.1989** Service defect: 'A - COOLING SYSTEM RADIATOR - NO.1 D/S RADIATOR REPLACED A/C LEAKING.'.
**16.11.1989** Service defect: 'A - ELECTRICAL MISC. MODULES - ROM PACK CHANGED ON DISPLAY MODULE & TRIP MONITOR SET.'.
**16.11.1989** Service defect: 'A - EXHAUST - NO.2 EXHAUST STACK GASKET REPLACED A/C BLOWING.'.
**29.11.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - HOLED RADIATOR - D/SIDE NO.1 RADIATOR REPLACED.'.
**29.11.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - ROMPAK - LOGIC & EXCITATION RAMPAK CHANGED OVER.'.
**30.12.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - COULD NOT MAINTAIN - 30CW VALVE REPLACED. TRAIN/PIPE PRESS. - (CLOGGED/UP WITH CARBON)'.
**06.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**11.01.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC CHECK - UNIT REPAIRED & OPERATING OK.'.
**19.01.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR FLAT WHEELS,CHECKED OK.'.
**19.01.1990** Service defect: 'UN - ENGINE - ENGINE HUNTING NOTCH 8,GOVERNOR ADJUSTED.'.
**21.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,5&6),NIL(3&4).'.
**31.01.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIRS - COMPLETED.'.
**07.02.1990** Service defect: 'B - AUXILLARY MACHINES - FILTER MOD.- OIL/MIST FILTER FITTED TO AIR/FRIDGE.'.
**07.02.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2,3,4&5),6 BAGS(6). (TMGL)'.
**07.02.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.3(3),R.3(7). - L.4(4),R.4(7).'.
**07.02.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.5(3),R.5(5). - L.6(2),R.6(3). TO BE PROFILED.'.
**07.02.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(5),R.1(7). - L.2(4),R.2(8+).'.
**07.02.1990** Service defect: 'B - VALVE BRIDGE/LASH ADJUSTER - LASH/ADJUSTERS - TEST TYPE LASH/ADJUSTERS INSTALLED.'.
**16.02.1990** Service defect: 'UN - BOGIE - EXCESS PISTON TRAVEL - SEVERAL BRAKE BLOCKS REPLACED - BRAKES ADJUSTED AFTER PROFILE.'.
**24.02.1990** Service defect: 'UN - AIR CONDITIONING - AIR COND. - AIR CONDITIONING CHECKED OK.'.

**24.02.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT - HEADLIGHT SEALED BEAM REPLACED.'.
**24.02.1990** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - JUMPER CABLE - JUMPER CABLE FITTED AND TRAIN LINE CHECKED.'.
**09.03.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - H/POWER TESTING - LOAD REGULATOR RESISTOR CHANGED.'.
**30.03.1990** Service defect: 'UN - FUEL SYSTEM - FUEL TANK EMPTIED A/C CRACKED,RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**03.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRIER - REPLACED.'.
**03.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - CRACKED FUEL TANK - TANK RE-WELDED.'.
**30.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**04.05.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 7 BAGS(2,4,5&6),8 BAGS(1&3). (TMGL)'.
**04.05.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(3),R.3(3). - L.4(2),R.4(6).'.
**04.05.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(3). - L.6(3),R.6(2).'.
**04.05.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(5),R.1(6). - L.2(2),R.2(6).'.
**05.05.1990** Service defect: 'UN - WHEELSLIP - BOOKED FOR WHEELSLIP & FAULT LIGHTS ON.CHECKED,UNABLE TO FAULT IN DEPOT.'.
**09.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(1&2),4 BAGS(5&6),3&4 OK. - NO.6 DRIVE GEAR TO MONITOR.'.
**20.05.1990** Service defect: 'TW - BOGIE - DRIVE GEAR - CHECKEED OK. LUBRICANT CHECK - 2 BAGS(1&2),8 BAGS(6),OTHERS OK.'.
**09.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS(1,2&3),8 BAGS(4,5&6).'.
**10.07.1990** Service defect: 'UN - BOGIE - BOGIES REVERSED.'.
**19.07.1990** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO FAILURE - TURBO REPLACED.(SERIAL NO.88-D1-1021 EX.DL41(THREW BLADE)'.
**23.07.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.
**23.07.1990** Service defect: 'UN - OTHER BODY REPAIRS - MIRROR BROKEN - O/SIDE MIRROR REPLACED.'.
**03.08.1990** Service defect: 'D - AUXILLARY MACHINES - CRACKED MOUNT - AUX/GEN.MOUNT WELDED.'.
**03.08.1990** Service defect: 'D - TO BE PROFILED A/C R.6 FLANGE (8).'.
**09.08.1990** Service defect: 'UN - NO FAULT FOUND - DROPPING LOAD - LOCO TEST RUN COMPLETED,NO FAULT EVIDENT. - ROMPAKS CHANGED A/C EARLY TRANSITION.'.
**10.08.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSING POWER.NO INFORMATION AVAILABLE*'.
**15.08.1990** Service defect: 'UN - NO FAULT FOUND - DROPPING LOAD - LOCO TEST RUN COMPLETED.(NOT FAULTED)'.
**20.08.1990** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - DROPPING LOAD - LOAD/REGULATOR REPAIRED.(MOVING ZERO-MAX.) WHEEL/SLIP - LOAD/TEST COMPLETED.'.
**22.08.1990** Service defect: 'UN - NO FAULT FOUND - DROPPING POWER - LOCO LOAD/TESTED,TRIAL RUN COMPLETED. - LOCO NOT FAULTED.'.
**27.08.1990** Service defect: 'UN - NO FAULT FOUND - LOSING POWER OCCASSIONALLY - LOCO NOT FAULTED.'.
**29.08.1990** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - - CONNECTED. * DUE TO WHEEL DIAMETER,FALSE READING SUPPLIED BY RADAR *'.
**29.08.1990** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - DROPPING LOAD - RADAR DISCONNECTED.(DISCREPENCY WITH RADAR) - NEW SOFTWARE TO BE INSTALLED BEFORE RADAR IS'.
**29.08.1990** Service defect: 'UN - LOCO TO BE RE-ROSTERED FOR DROPPING LOAD. (29/8)'.
**15.10.1990** Service defect: 'TS - GENERAL ACCIDENT - D18 CHANGED OUT A/C FIRE,SEVERAL MODS DONE BY CLYDE,ENGINE CHECKS +OTHER MAJOR WORK DONE.'.
**01.11.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(4),5 BAGS(5),6 BAGS(2,3&6),7 BAGS(1'.
**01.11.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(4),R.3(3). - L.4(4),R.4(4).'.
**01.11.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(4),R.5(3). - L.6(3),R.6(6).'.
**01.11.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(6),R.1(4). - L.2(4),R.2(4).'.
**01.11.1990** Service defect: 'A - FUEL SYSTEM - FUEL NOT PICKING/UP.-'.
**03.11.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP IN DYNAMIC - SANDERS CUT/IN 'B'BOGIE A/C CUT/OUT. - UNABLE TO FAULT IN DEPOT.'.
**06.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - VALVE FAULTY - AUTO/BRAKE VALVE REPLACED.'.
**16.11.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**16.11.1990** Service defect: 'SW - NO FAULT FOUND - DYNAMIC CUT/OUT - CUT BACK IN,CHECKED IN DEPOT,NOT FAULTED.'.
**21.11.1990** Service defect: 'SW - NO FAULT FOUND - DYNAMIC CUT/OUT - LOCO TESTED IN DEPOT,NOT FAULTED. (GRID OPEN OP.) - FBL MODULE SWAPPED WITH DL46.'.
**08.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**08.12.1990** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDER FAULT - NO.3 AIR FILTER BOWL REPLACED.'.
**11.12.1990** Service defect: 'SW - DYNAMIC BRAKE - GRID/OPEN FAULT -'.
**31.01.1991** Service defect: 'B - ALTERNATOR - FOUR MAIN GENERATOR DIODES AND FUSES REPLACED'.
**31.01.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - L1 WHEEL IS '8' ON THE FLANGE,OTHER WHEELS HAVE '7'S TO BE MONITORED'.
**31.01.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - MANUAL POWER CHECKED OK.'.
**31.01.1991** Service defect: 'B - ENGINE CYLINDER HEADS - POWER ASSEMBLY CHANGED-PILOT LINER STUD REPLACED.LOAD TESTED-2940HP AT 900 RPM.'.
**05.02.1991** Service defect: 'UN - ENGINE - CRAB PLATE MOD

- COMPLETED.'.

**05.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE MOD - 80

**08.02.1991** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED EX WTM.'.

**17.04.1991** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED. NEW BOGIES FITTED EX ISLINGTON. TRI-MOUNT MOD FITTED SAME AS BL'S.'.

**20.05.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BKS-BG MICROSWITCH CHANGED A/C OPEN CIRCUITED.'.

**31.05.1991** Service defect: 'UN - GENERAL - DRIVERS WINDOW REPAIRED.'.

**31.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES PIPE REPAIRED.'.

**14.06.1991** Service defect: 'UN - BROKEN PIPE - CRACKED PIPE - PIPE TO MAIN/RES.TANK RE-WELDED.'.

**26.07.1991** Service defect: 'C - ALTERNATOR - DIODES & FUSES REPLACED IN ALTERNATOR.'.

**26.07.1991** Service defect: 'C - GENERAL - SEAT REPLACED OBS SIDE.'.

**11.09.1991** Service defect: 'TS - DYNAMIC BRAKE - RESISTOR 7 REPLACED,A/C OPEN.FEEDBACK CIRCUIT RESISTORS CHECKED OK,GRIDS & CONNECTIONS CHECKED OK.FRP CHECKED OK.'.

**18.10.1991** Service defect: 'SW - ALTERNATOR - DIODES/FUSES - MODIFICATION COMPLETED.'.

**18.10.1991** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - INSTALLED.'.

**18.10.1991** Service defect: 'SW - COOLING SYSTEM RADIATOR - WATER LEAK - VENT PIPE REPLACED.'.

**18.10.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - CASIO CARD - REPLACED.(NEW BATTERY FITTED) CASSETTE - REPLACED.'.

**18.10.1991** Service defect: 'SW - OTHER BODY REPAIRS - MODIFICATION - DYNAMIC FAN VENT MOD.COMPLETED. - FRICTION PAD MOD.COMPLETED.'.

**18.10.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN PIN - MODIFICATION COMPLETED.'.

**25.10.1991** Service defect: 'UN - FAN CONTACTORS - REPLACED 2 FAN CONTACTORS FCF2B & FCF3B,A/C COILS U/S.FANS METERED & MEGGERED OK,FANS RUN OK.LOAD TEST 1120V,2930HP.'.

**30.10.1991** Service defect: 'A - DYNAMIC BRAKE - DYNAMIC BRAKE WHEEL SLIP REPAIRED,A/C LOOSE/DIRTY CONNECTIONON RESISTOR 34B.'.

**30.10.1991** Service defect: 'A - EXHAUST - STACK WELDED.'.

**03.12.1991** Service defect: 'TS - TRACTION MOTOR - NO 5 T/MOTOR CHANGED,A/C COMMUTATOR FAULT. T/M IN - 90E1NO1T/M OUT - 87M1NO3.'.

**25.02.1992** Service defect: 'UN - GENERAL - BLOCKED FRIDGE DRAIN CLEARED OK.S/WINDOW FREED OK.'.

**25.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TAP TO REPAIR 'B'END TRAIN PIPE.OK.'.

**25.02.1992** Service defect: 'UN - D/S WINDOW FRONT TO REPLACE.'.

**27.03.1992** Service defect: 'TS - ELECTRICAL MISC. MODULES - FBE MODULE SWAPPED WITH DL44 1000 HRS 28/3/92.'.

**27.03.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHARGER CHANGED.'.

**27.03.1992** Service defect: 'TS - MECHANICAL EQUIPMENT - A1-P2A AIR VALVES REPLACED.'.

**27.03.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - VIG. CONTROL BOX REPLACED.A/C TAKEN FROM LOCO PREVIOUSLY.'.

**27.03.1992** Service defect: 'TS - OTHER BODY REPAIRS - DRIVERS SIDE WINDSCREEN REPLACED.'.

**22.04.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - CHECK VALVE INSTALLED IN TURBO SOAK BACK PUMP SYSTEM.'.

**29.04.1992** Service defect: 'A - ENGINE WATER LEAK - WATER PUMP CHANGED.'.

**23.07.1992** Service defect: 'F - BOGIE - L6 AXLE BOX LINER RENEWED. R1 FLANGE LUBE NOZZLE REPLACED.'.

**23.07.1992** Service defect: 'F - ENGINE - ENGINE SPEEDS IDLE,1,2&3 ADJUSTED.'.

**23.07.1992** Service defect: 'F - OTHER BODY REPAIRS - NO.2 WINDOW IN ENGINE ROOM REMOVED D/SIDE.-WALL REPAIRED AND WINDOW REFITTED.-D/SIDE STEP REPAIRED.'.

**23.07.1992** Service defect: 'F - TRACTION MOTOR - BRUSH HOLDER REPLACED NO.2 T/M.9 O'CLOCK.'.

**23.07.1992** Service defect: 'F - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED 'A'END BOGIE.'.

**10.08.1992** Service defect: 'SW - BOGIE - BOGIES ROTATED.'.

**10.08.1992** Service defect: 'SW - CONTACTOR MISCELLANEOUS - HIGH SPEED FAN CONTACTOR REPLACED A/C BURNT OUT.CONTACTOR USED OUT OF DL36.'.

**10.08.1992** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REMOVED - COUNTERWEIGHTS CHECKED OK. TURBO REPLACED.'.

**10.08.1992** Service defect: 'SW - FUEL SYSTEM - FUEL TANK REPLACED.'.

**10.08.1992** Service defect: 'SW - LUBRICATING SYSTEM OIL COOLER - INTERCOOLER LEAKS REPAIRED. GASKETS HAND MADE A/C NIL IN STOCK. TESTED OK UNDER LOAD.'.

**09.10.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - REAR SANDING VALVE,REAR BOGIE REPLACED,A/C SOLENOID STICKING'.

**09.10.1992** Service defect: 'A - AIR CON U/S,HEATER CUTS IN /OUT ON COOLING.9/10.'.

**09.10.1992** Service defect: 'A - TURBO LUBE PUMP MOTOR BOX COVER MISSING.9/10.'.

**12.01.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REAR COUPLER LIGHTS REPAIRED.'.

**12.01.1993** Service defect: 'B - ENGINE WATER LEAK - ENGINE PROTECTION UNIT REPLACED A/C WATER LEAK.'.

**12.01.1993** Service defect: 'B - GENERAL - D/SIDE SEAT REPLACED.O/SIDE AND REAR STEPS REPAIRED.'.

**12.01.1993** Service defect: 'B - NO FAULT FOUND - AIR CON.CHECKED OUT OK.'.

**09.02.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - 2 SPEED RADIATOR FAN CONTACTOR WIRING REPAIRED.COOLING FAN TEST CONDUCTED OK.'.

**09.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT MAIN RESEVOIR

AIR COCK REPAIRED.'.

**09.02.1993** Service defect: 'UN - WINDOW REPS, A/C SIEZED IN TRACKS.9/2.'.

**17.02.1993** Service defect: 'SW - OTHER BODY REPAIRS - WINDOWS REMOVED TO REPAIR RUST DAMAGE, RUST REMOVED & WINDOWS REPLACED.'.

**23.02.1993** Service defect: 'TS - COOLING SYSTEM OVERHEATING - ETP 2 REPLACED A/C READING HIGH TEMPERATURE.'.

**23.02.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOAD TESTED OK LR 100

**12.04.1993** Service defect: 'A - BOGIE - BOGIE ROTATION COMPLETED. BOLSTER PADS REPLACED ON 'B'END BOGIE. FLANGE LUBRICATOR NOZZLE FITTED TO L6 & FLANGE LUBES'.

**12.04.1993** Service defect: 'A - GENERAL - BOTH BLINDS REPAIRED. ENGINE DOOR CLOSERS REPLACED.'.

**12.04.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED,A/C BROKEN.'.

**02.07.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - ALL FAN CONTACTORS CHANGED,TESTED OK.'.

**02.07.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO LUBE PUMP MOTOR CHANGED,A/C NOT WORKING. NEW ONE CHECKED OK.'.

**02.07.1993** Service defect: 'C - GENERAL - D/S WINDOW ARM REST REPLACED. O/S SEAT REPLACED. AIR FRIDGE REPAIRED.'.

**02.07.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - R3 AXLE SAND HOSE REPLACED.'.

**02.07.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BOTH A END MAIN RES & O/S TRAIN PIPE DUMMY COUPLINGS REPLACED. 'B'END O/S TRAIN PIPE HOSE RUBBER REPLACED.'.

**19.07.1993** Service defect: 'TS - ALTERNATOR - J11 CABLE REPAIRED,A/C WIRE IN MAIN ALT TO GROUND. ALT CLEANED,WIRES FIXED TO TIE DOWN POINTS.'.

**25.09.1993** Service defect: 'A - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT CHANGED.'.

**25.09.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - MANUAL POWER RHEOSTAT CHANGED.'.

**25.09.1993** Service defect: 'A - ENGINE - MARMON RUBBERS ON 'Y'PIPE CHANGED.'.

**25.09.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MOISTURE ELIMINATOR REPLACED ON MAIN RES.'.

**25.09.1993** Service defect: 'A - OTHER BODY REPAIRS - 'B'END OBS/SIDE STEP REPAIRED.'.

**02.11.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - BONDED RADIATORS INSTALLED EX DL 45. FILLED WITH WATER, RUN UP AND TESTED OK, A/C WATER LEAKS.'.

**02.11.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FANS CHECKED OK.'.

**04.11.1993** Service defect: 'UN - BOGIE - ROUGH RIDING - T/M MOUNTS, LATERAL PADS, CAB MOUNTS & SHOCKERS CHECKED. 'A'END BOLSTER SHOCKER RUBBERS CHANGED,'.

**04.11.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL SEPERATOR BATH MOUNT BOLTS TIGHTENED, A/C BAD OIL LEAK.'.

**04.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DRIVERS SIDE M.R.PIPE TO MAIN RES REPAIRED, A/C CRACKED.'.

**14.12.1993** Service defect: 'B - ALTERNATOR - ALL ALTERNATOR BRUSHES CHANGED A/C CONDEMNING LENGTH.'.

**14.12.1993** Service defect: 'B - BOGIE - BOLSTER SHOCK ABSORBER FITTED CORRECTLY A/C UPSIDE DOWN. R5 AND L4 PEDASTAL LINERS REPLACED.'.

**14.12.1993** Service defect: 'B - DYNAMIC BRAKE - DYNAMIC BRAKE BLOWER MOTOR REPLACED.'.

**14.12.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - TWO LIGHT IN ENGINE ROOM REPAIRED A/C HANGING LOOSE. ONE ABOVE AUX. GEN. ONE IN FIRST DOOR AT AIR FILTERS RHS.'.

**14.12.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO OIL SUPPLY LINE GASKET REPLACED A/C LEAKING.'.

**14.12.1993** Service defect: 'B - GENERAL - HAND BRAKE CHAIN REPAIRED A/C SLACK.'.

**14.12.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDING AIR STRAINER REPLACED A/C DAMAGED.'.

**14.12.1993** Service defect: 'B - OTHER BODY REPAIRS - COW CATCHER REPAIRED. FRIDGE DRAIN UNBLOCKED.'.

**14.12.1993** Service defect: 'B - FUEL CUT-OFF NOT ADJUSTED A/C FUEL LEVEL TOO HIGH.'.

**14.12.1993** Service defect: 'B - 14/12/93.'.

**23.03.1994** Service defect: 'A - ALTERNATOR - ALTERNATOR OBSERVERS SIDE WIPED OUT.'.

**23.03.1994** Service defect: 'A - AUXILLARY MACHINES - INERTIAL AIR FILTER BLOWER C/B REPLACED. BLOWER PINS ON PLUG REPLACCED, A/C BLOWN.'.

**23.03.1994** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - NO.4 W/SET CHANGED, A/C L4 FLANGE 22#.'.

**23.03.1994** Service defect: 'A - COOLING SYSTEM WATER PUMP - BOTH WATER PUMPS REPLACED, A/C LEAKING.'.

**23.03.1994** Service defect: 'A - ELECTRICAL MISC. MODULES - FCS MODULE REPLACED.'.

**23.03.1994** Service defect: 'A - ENGINE - ENGINE CHECKED FOR FUEL DILUTION. NO DILUTION EVIDENT.'.

**23.03.1994** Service defect: 'A - ENGINE WATER LEAK - CHECKED FOR REPORTED WATER LEAK. NO INTERNAL WATER LEAK FOUND.'.

**23.03.1994** Service defect: 'A - FUEL SYSTEM - FUEL CUT-OFF ADJUSTED, A/C SET TOO HIGH.'.

**23.03.1994** Service defect: 'A - GENERAL - BATTERY ROLLERS REPLACED, A/C NEARLY SIEZED. TOWING CHAIN INSTALLED.'.

**23.03.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - COMPRESSOR SAFETY VALVE REPLACED, A/C USED FOR DL46. MAIN RES. AUTO DRAIN VALVE REPLACED.'.

**23.03.1994** Service defect: 'A - OTHER BODY REPAIRS - SLIDING WINDOWS REMOVED, RUST CUT AWAY, WINDOWS REPLACED, A/C WINDOWS SIEZED. DRIVERS SEAT REPLACED.'.

**23.03.1994** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO. RADIATOR FAN REPLACED, A/C SIEZED. BOTH NO.3 FAN FUSESREPLACED.'.

**02.06.1994** Service defect: 'D - ALTERNATOR - ALT CLEANED UP.'.

**02.06.1994** Service defect: 'D - BOGIE - FLANGE CUT BACK

IN. L6 FLANGE LUBE NOZZLE REPLACED AND HOSESREPAIRED. R1 FLANGE LUBE HOSE REPAIRED, FLANGE LUBES'.

**02.06.1994** Service defect: 'D - ENGINE AIR FILTERS - ENGINE AIR INTAKE FILTERS CHANGED.'.

**02.06.1994** Service defect: 'D - ENGINE TURBOCHARGER/SUPERCHARGER - OIL LEAKS AT TURBO FILTER - TURBO FILTER HEAD GASKETS REPLACED, CHECKED OK.'.

**02.06.1994** Service defect: 'D - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MAGNET VALVE REPLACED.'.

**02.06.1994** Service defect: 'D - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER WEAR PLATE REPLACED. 'A'END COUPLER PULL RODSSTRAIGHTENED.'.

**02.06.1994** Service defect: 'D - MECHANICAL EQUIPMENT SANDING GEAR - R6 SAND HOSE REPLACED.'.

**02.06.1994** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE LEAK REPAIRED. ALL BRAKE BLOCKS REPLACED. 'A'END D/SIDE BRAKE PIPE COCK SEALS REPLACED, A/C LEAKING.'.

**DL 39**

Details: locomotive 'DL 39 S' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 17.07.1988
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 16.04.1997 | | |
| SW Service Mileage: | 440830 KM | SW Service Date: | 17.03.1997 |
| A Service Mileage: | 458350 KM | A Service Date: | 16.04.1997 |
| B Service Mileage: | 421687 KM | B Service Date: | 17.01.1997 |
| C Service Mileage: | 269322 KM | C Service Date: | 19.07.1996 |
| D Service Mileage: | 1339499 KM | D Service Date: | 13.04.1994 |
| WT Service Mileage: | 1113397 KM | WT Service Date: | 13.05.1993 |
| US Service Mileage: | 452837 KM | A Service Date: | 04.04.1997 |

**05.07.1989** Service defect: 'C - BOGIE - LUBRICANT CHECK - 3 BAGS(1,3&6),4 BAGS(5),5 BAGS(2&4).'.

**05.07.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - AGENT - DESICANT DRYING AGENT REPLACED IN CANISTORS.'.

**13.07.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - NO POWER - ARM60 CABLE ON DC NEG.BUS/BAR ON SCR RE-LUGGED. - LOCO LOAD/TESTED OK. * CAUSE *(CABLE BLOWN OFF)'.

**27.07.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH FAULTY.NIL SPARES.RETURNED TO PT AUGUSTA FOR REPAIRS.'.

**27.07.1989** Service defect: 'UN - GENERAL - LHS STEP REPAIRED A/C DAMAGED.'.

**29.07.1989** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS(1-3),6 BAGS(4-6) (TMGL)'.

**29.07.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - LOSING POWER AFTER USING DYN. - S.G.C.CONTACTOR REPAIRED. - AUX/CONTACT RIVETS REPAIRED.'.

**29.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - H/LIGHT COMBINATION SWITCH REPLACED.'.

**02.08.1989** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE CHECKED OK.'.

**10.08.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY - NO FAULT FOUND.'.

**28.09.1989** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - FLANGE CONDITION - FULL PROFILE COMPLETED A/C SHARP FLANGES.'.

**28.09.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.

**03.10.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1,3,4,5&6),5 BAGS(2). (TMGL)'.

**03.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.2 (2),R.2 (1) - L.3 (3),R.3 (2)'.

**03.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.4 (3),R.4 (2) - L.5 (1),R.5 (0)'.

**03.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.6 (3),R.6 (2)'.

**03.10.1989** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEED RECORDER - ADJUSTED TO NO.2 POSITION A/C PROFILED. FLANGE READINGS AFTER PROFILE - L.1 (4),R.1 (2)'.

**03.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - PLUG REPLACED ON PIPE BRACKET FOR 30-CW MODULE. - (AIR LOSS AFTER MINIMUM REDUCTION)'.

**19.10.1989** Service defect: 'UN - CONTACTOR WELDED - CONTACTOR WELDED - S.G.C.CONTACTOR EX.DL42,EX.DL49 INSTALLED'.

**28.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENENT RELEASE VALVE REPAIRED A/C AUTO BRAKE NOT APPLYING.'.

**31.10.1989** Service defect: 'UN - DYNAMIC BRAKE - ROMPACS REPLACED A/C EXCESS CURRENT IN DYNAMIC BRAKE SET UP.EFX MICRO SWITCH REPLACED A/C OPEN CIRCUIT.GFC NOT ENERGIS-'.

**09.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL G/CASES CHECKED OK.'.

**02.01.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.

**02.01.1990** Service defect: 'B - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES - REPLACED WITH FACTORY TESTED/TIMED ADJUSTORS'.

**04.01.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - WHEEL PROFILE - COMPLETED A/C L.4(8++)& L.5(8++).'.

**04.01.1990** Service defect: 'WT - THE WHEELS ON 'A' END BOGIE ARE 25MM LARGER THAN'.

**04.01.1990** Service defect: 'WT - 'B' END.'.

**05.01.1990** Service defect: 'UN - SENT BACK TO PT/AUG A/C AIR LEAK,BRAKE ADJUST'.

**05.01.1990** Service defect: 'UN - SPEEDO RECONNECT.'.

**06.01.1990** Service defect: 'SW - BOGIE - BRAKE ADJ.-

COMPLETED AFTER PROFILE COMPLETED.'.

**06.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE BROKEN - M/RESERVOIR PIPE REPLACED. WHB TEST - COMPLETED,0/S FRONT M/RES.PIPE LEAK REPAIRED.'.

**15.01.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ENGN.REV & DYN.PROBLEM - C.P.U.REPLACED. - DYN/ROMPAK REPLACED.'.

**09.02.1990** Service defect: 'UN - NO FAULT FOUND - WATER LEAK - LOCO CHECKED,NOT FAULTED.'.

**12.02.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - NO HIGH BEAM - HEAD/LIGHT SWITCH REPLACED.'.

**12.02.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP/GOVN O/CHARGING -'.

**15.02.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.(TMGL)'.

**15.02.1990** Service defect: 'UN - FUEL SYSTEM - FUEL CUT/OFFS - ADJUSTED.'.

**15.02.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - FANS ETC CHECKED OK.'.

**19.02.1990** Service defect: 'UN - ENGINE - LOAD/TEST - COMPLETED.'.

**19.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - SEAT REPAIR -'.

**19.02.1990** Service defect: 'UN - RADIO REPAIR - RADIO - ????'.

**20.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTOR FAULTY - S.G.C.CONTACTOR ADJUSTED BY CLYDE REP. - AUX/TIPS REPLACED.'.

**20.02.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - * REPLACED L/H BANK INSIDE BOTTOM BRIDGE DIODE GROUP *'.

**20.02.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 8 NO.BRIDGE DIODES REPLACED.(BLOWN) - 1 NO.+BASE DIODE REPLACED.(SHORTED)'.

**27.02.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - NOT PULLING AMPS - PROBLEMS EXPERIENCED WITH NEW SGC ON TEST RUN- SGC REMOVED FROM DL41 FOR DL39.'.

**27.02.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - NOT PULLING AMPS - SERIES GENERATOR CONTACTOR CHANGED A/C COIL BURNT OUT & PILOT COIL INTERLOCK.'.

**13.03.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING COOLING WATER - D/SIDE NO.1 RADIATOR REPLACED.'.

**14.03.1990** Service defect: 'SW - OTHER BODY REPAIRS - TANK REPAIR - SET/SCREWS REMOVED WITH EZY/OUT.(SHEARED) -(R/H FUEL TANK COVER PLATE SET/SCREWS RE-NEWED)'.

**14.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**16.03.1990** Service defect: 'TS - STARTER MOTOR - STARTER MOTOR FAILURE - BOTH MOTORS REPLACED. * LOCO FAILED AT BROKEN/HILL ON TRAIN NO.6169 *'.

**26.03.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 2 BAGS(1&3),4 BAGS(2),OTHER G/CASES OK. (TMGL)'.

**26.03.1990** Service defect: 'TS - ELECTRICAL MISC. MODULES - C/BREAKER TRIPPING - HEAT SINK REMOVED FROM VR13. (MODULE)'.

**26.03.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - - FULL APPLICATION 13 SECONDS.'.

**26.03.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - OLIVE FITTED ON PIPE TO J.1 RELAY VALVE.'.

**26.03.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION CHOKE PLATE - MODIFIED CHOKE PLATE INSTALLED. - OPERATION CHECKED OK.'.

**26.03.1990** Service defect: 'TS - NO FAULT FOUND - DYNAMIC BRAKE - OPERATION CHECKED OK.'.

**29.03.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AUSTRAC MODS EFFECTED.'.

**30.03.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 3 BAGS(4&5),4 BAGS(6),1,2&3 G/CASES FULL. (TMGL)'.

**30.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(5),R.3(0). - L.4(3),R.4(0).'.

**30.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(3),R.5(1). - L.6(3),R.6(2).'.

**30.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(6),R.1(1). - L.2(4),R.2(0).'.

**30.03.1990** Service defect: 'A - TO BE RE-ROSTERED FOR FUEL TANK REPAIRS. (30/3)'.

**02.04.1990** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - POWER LOSS - P2 INTERLOCK, WIRE LOOSE ON E TERMINAL.'.

**10.04.1990** Service defect: 'SW - BOGIE - BOGIE REVERSAL - COMPLETED A/C FLANGE WEAR.('A'BOGIE DL103) ('B'BOGIE DL104)'.

**10.04.1990** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - HEAD/LIGHT MOD COMPLETED.'.

**10.04.1990** Service defect: 'SW - ENGINE GOVERNOR - O/SPEED - RESET TO 1045 RPM A/C ROMPAK REPLACEMENT.'.

**10.04.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - WIRING TO JUNCTION BOX REPAIRED.(PULLED OUT) - SPEEDO ADJUSTED TO CORRECT READING.'.

**10.04.1990** Service defect: 'SW - OTHER BODY REPAIRS - FUEL TANK LEAK - TANK REMOVED & REPLACED WITH REPAIRED TANK.'.

**12.04.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - WIRE OFF ON 'B'CONTACTOR REPLACED.'.

**12.04.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE FAULTY - AMM/METER GAUGE REPLACED.'.

**12.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MOISTURE EJECTORS - CLEARED & OPERATING.'.

**23.04.1990** Service defect: 'TS - NO FAULT FOUND - LOST ALL POWER ON 2 OCCASIONS - LOCO NOT FAULTED IN DEPOT. ROUGH/RIDING - CHECKED OK AT 100 KM/H.'.

**25.04.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO LUBE PUMP REPLACED A/C O/SPEEDING DUE TO SHUNT FIELD BURNT OUT. REPLACED ON CLYDE REP'S ADVICE.'.

**05.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(3&5),4 BAGS(2&4),6 BAGS(1),NIL(6). (TMGL)'.

**28.05.1990** Service defect: 'UN - BOGIE - GEARCASE

MODIFICATIONS COMPLETED BY CLYDE REP.'.
**28.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RADIO MODIFICATIONS COMPLETED.'.
**28.05.1990** Service defect: 'UN - EXHAUST - BLOWN EXHAUST GASKET - NO.3 STACK GASKET REPLACED AND 1 NO. STUD REPLACED A/C BROKEN.'.
**01.06.1990** Service defect: 'TW - OTHER BODY REPAIRS - COWCATCHER & WHB REPS - COWCATCHER REPAIRED A/C HIT BULLOCK SOME TIME AGO. WHB FITTINGS ALSO REPAIRED.'.
**13.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK -'.
**30.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FAULTY DIAPHRAGM IN AIR DRYER VALVE.'.
**08.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 5 BAGS ADDED TO NOS. 5 & 6 CASES.'.
**08.07.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE CHECKED O.K.'.
**22.07.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - NO TMGL ADDED.'.
**22.07.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BOOKED - ALL SANDER BOXES FILLED.'.
**22.07.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - SWITCH FAULT - GAUGE LIGHT DIMMER REPLACED.'.
**09.08.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP IN DYNAMIC - SAND BOXES FILLED,OPERATING OK. (NO SAND)'.
**13.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL OK.'.
**13.08.1990** Service defect: 'TW - DYNAMIC BRAKE - DYNAMIC FAULT - SANDERS FILLED.'.
**17.08.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY IN DYNAMIC - DYNAMIC FAN CLEANED/UP. - (SLIGHT FLASHING ON FAN)'.
**29.08.1990** Service defect: 'UN - CONTACTOR INTERLOCKS - NO POWER - CONTACTS IN S.G.C.INT/LOCK BOX REPAIRED.'.
**29.08.1990** Service defect: 'UN - DYNAMIC DISCONNECTED A/C FAN U/S. 29/8)'.
**04.09.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - MODIFICATION - RADIATOR MOD COMPLETED.'.
**12.09.1990** Service defect: 'SW - CONTACTOR MISCELLANEOUS - S.G.C.CONTACTOR - EX.DL38 S.G.C.INSTALLED. - (ORIGINAL USED FOR DL46)'.
**12.09.1990** Service defect: 'SW - RADIATOR/PRESSURISING FAN - DYNAMIC FAN FAILURE - RE-BUILT FAN INSTALLED,TESTED OK. * ARMATURE EX.DL45,STATOR EX.DL39,FAN & HOUSING EX.DL46 *'.
**18.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB BUMP STOPS - FITTED.'.
**18.09.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN FAILURE - BURNT LUG ON FAN BRUSH/HOLDER REPAIRED. (FLASHED) - (LACK OF SPRING TENSION ON BRUSH/HOLDER)'.
**18.09.1990** Service defect: 'UN - WHEELSLIP - O.C.C.RESISTOR - R34A-B FEED BACK RESISTOR REPLACED.'.
**22.09.1990** Service defect: 'UN - FUEL SYSTEM - FUEL IN BY/PASS - SPIN/ON FUEL FILTERS REPLACED.'.
**27.09.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**19.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**19.10.1990** Service defect: 'TW - FUEL SYSTEM PUMP - FUEL PUMP FAULT - BRUSHES IN FUEL PUMP REPLACED.(SHORT)'.
**02.11.1990** Service defect: 'SW - AIR CONDITIONING - SEAL U/S - COMPRESSOR SHAFT SEAL REPLACED,UNIT REGASSED. - UNIT OPERATION TESTED OK.'.
**02.11.1990** Service defect: 'SW - OTHER BODY REPAIRS - CAB REPAIRS - COMPLETED.'.
**10.11.1990** Service defect: 'TW - AIR CONDITIONING - AIR/COND FAULT - GAS LINE TO AIR/COND REPAIRED. - UNIT RE-GASSED & CHECKED OK.'.
**10.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(1&2),4 BAGS(4,5&6).'.
**15.11.1990** Service defect: 'SW - BOGIE - BOGIES ROTATED.'.
**18.11.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - PRESSURE LOW - COMPRESSOR PRESSURE ADJUSTED. BLOWN VALVE - SAFETY VALVE REPLACED.'.
**08.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 1 BAG(1-5),3 BAGS(6).'.
**04.01.1991** Service defect: 'B - COOLING SYSTEM RADIATOR - RADIATOR CHANGED'.
**04.01.1991** Service defect: 'B - ENGINE - NO.12 LHS EXHAUST ROLLER CHANGED'.
**04.01.1991** Service defect: 'B - RADIATOR/PRESSURISING FAN - NO. 2 RADIATOR FAN CHANGED'.
**19.01.1991** Service defect: 'UN - BOGIE - L3 (6) R3 (4) L4 (4) R4 (3)'.
**19.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - L5 (4) R5 (6) L6 (4) R6 (6)'.
**19.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL CHECK O.K. L1 (6) R1 (4) L2 (5) R2 (5)'.
**19.01.1991** Service defect: 'UN - EXHAUST - EXHAST BELLOW REPLACED.'.
**19.01.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE COCK REPLACED.'.
**19.03.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN MOD - DYN/BRK.FAN VENT MOD.COMPLETED.'.
**05.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE SYSTEM INSPECTED AS PER INSTRUCTION.'.
**05.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - HAND RAILS WELDED.'.
**23.04.1991** Service defect: 'UN - CONTACTOR EP VALVES - MAGNET VALVE CHANGED,A/C CONTINUALLY FOUND CLOSED.'.
**13.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - PULSE GENERATOR REPLACED,A/C NOT WORKING.'.
**15.05.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - M/GEN.FIELD TOGGLE SWITCH REPLACED. (NOT PULLING AMPS) - FAILED TRAIN NO.2SP5.'.
**09.07.1991** Service defect: 'C - AUXILLARY MACHINES - FAN GUARD ON AUX GEN REWELDED.'.
**09.07.1991** Service defect: 'C - ELECTRICAL MISCELLANEOUS - CA32 CAPACITOR REPLACED.'.
**09.07.1991** Service defect: 'C - ENGINE

TURBOCHARGER/SUPERCHARGER - BOTH TURBO AFTERCOOLERS CHANGED.'.

**09.07.1991** Service defect: 'C - TRACTION MOTOR BRUSHES - BRUSHES CHANGED A/C FRAYED PIGTAILS,NONE AT CONDEMNING LIMIT- 94 BRUSHES.'.

**24.09.1991** Service defect: 'TS - BOGIE - NO.4&5 GEARCASE REPLACED.'.

**24.09.1991** Service defect: 'TS - COOLING SYSTEM - SITE GLASS FITTED.'.

**24.09.1991** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - FOG LIGHTS REPLACED.'.

**24.09.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR CHANGED.'.

**24.09.1991** Service defect: 'TS - EXHAUST - EXHAST GASKETS FITTED.'.

**24.09.1991** Service defect: 'TS - FUEL SYSTEM - FUEL TANK CHANGED.'.

**24.09.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE EQUIPMENT REPAIRED.'.

**24.09.1991** Service defect: 'TS - OTHER BODY REPAIRS - REARCOW CATCHER REPAIRED.DOOR HANDLE REPLACED.'.

**03.10.1991** Service defect: 'A - BOGIE - T/M SUPPORT BEARINGS LUBRICATED.'.

**03.10.1991** Service defect: 'A - ENGINE GOVERNOR MECHANICAL - GOV. LINKAGE LAYSHAFT BEARINGS CHECKED. O/K.'.

**03.10.1991** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - REPLACED DAMAGED TURBO LUBE PUMP CONDUIT.'.

**03.10.1991** Service defect: 'A - OTHER BODY REPAIRS - OBSERVERS SIDE STEP REPAIRED. A/C BENT.'.

**03.10.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - 5 BRUSHES REPLACED -'B' END BOGIE.'.

**03.10.1991** Service defect: 'A - SHAFT SEAL TO CHANGE IN COMP. SHAFT.'.

**31.10.1991** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - AIR/COND UNIT RE-GASSED & OPERATING OK. - (SHAFT SEAL LEAKING)'.

**31.10.1991** Service defect: 'UN - AUXILLARY MACHINES - FRIDGE NOT WORKING - REPAIRED.'.

**31.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE VALVE - FRICTION TYPE VALVE INSTALLED.'.

**31.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CASSETTE - REPLACED,TIME ADJUSTED TO DAY/LIGHT SAVINGS TIME.'.

**27.11.1991** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.DIRECTION TESTED OK.'.

**27.11.1991** Service defect: 'SW - TRACTION MOTOR - T/MOTORS IN - 88-L1-NO6,88-L1-NO4,88-B1-NO3,88-B1–NO4, 88-L1-NO5 & 88-B1-NO6.'.

**30.12.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO.2 FAN CONTACTOR REPAIRED.'.

**02.01.1992** Service defect: 'B - COOLING SYSTEM - COOLANT WATER CHANGED.'.

**02.01.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL PUMP BACKLASH REPAIRED.'.

**02.01.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - NO.4 SANDER REPAIRED.'.

**02.01.1992** Service defect: 'B - EXHAUST COWLING TO REPLACE.-BROKEN SPRINGS TO'.

**02.01.1992** Service defect: 'B - REPLACE BOTH BOGIES.'.

**03.01.1992** Service defect: 'UN - EXHAUST - EXHAUST WELDED.'.

**03.01.1992** Service defect: 'UN - BOGIE SPRINGS BROKEN. 80 KPH RUNNING ONLY.'.

**15.01.1992** Service defect: 'TS - CONTACTOR INTERLOCKS - FCF2 AUX CONTACT & FCF2 MAIN CONTACTS REPLACED,A/C FAULTY.'.

**15.01.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - FCF2 COIL REPLACED,A/C FAULTY.'.

**15.01.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - RE 33 & 34 RESISTORS REPLACED,BURNT OUT.'.

**17.02.1992** Service defect: 'SW - ALTERNATOR - MODIFICATION - DIODE/FUSE MOD.COMPLETED.'.

**17.02.1992** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - INSTALLED.'.

**17.02.1992** Service defect: 'SW - RADIATOR/PRESSURISING FAN - MODIFICATION - RAD/FAN PIN MODIFICATION COMPLETED'.

**17.02.1992** Service defect: 'SW - AIR/COND. UNIT OUT OF GAS.(SENT TO MPR FOR REPAIR)'.

**18.02.1992** Service defect: 'UN - AIR CONDITIONING - AIR/CON FAULT RECTAFIED.'.

**23.03.1992** Service defect: 'UN - AIR CONDITIONING - AIR-CON. UNIT REPLACED.'.

**27.03.1992** Service defect: 'A - BOGIE MAINTENANCE - SPRINGS - BROKEN SPRINGS TO REPLACE BOTH BOGIES.-SPRINGS CHECKED AND FOUND OK.'.

**27.03.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - NO.2 RADIATOR FAN HIGH SPEED CONTACTOR REPLACED.A/C BURNT COIL.'.

**27.03.1992** Service defect: 'A - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPAIRED.'.

**27.03.1992** Service defect: 'A - EXHAUST - EXHAUST COWLING REPAIRED.'.

**27.03.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE AIR STRAINER REPLACED.'.

**30.04.1992** Service defect: 'CA - MECHANICAL EQUIPMENT COUPLER - COLLISION REPAIRS- A END COUPLER CHANGED. ENGINE INSPECTION COMPLETED.'.

**06.05.1992** Service defect: 'CA - GENERAL - CAB MOUNTS REPAIRED OK.'.

**06.05.1992** Service defect: 'CA - MECHANICAL MAINTENANCE - SPEEDOMETER - FAULTY SPEDO REPAIRED OK'.

**17.06.1992** Service defect: 'A - BLOCKED FILTERS - BRAKE PIPE LEAK DETECTED DURING BRAKE TEST.'.

**17.06.1992** Service defect: 'A - CONTACTOR INTERLOCKS - FCF3-COIL,LEFT SIDE INTERLOCK REPLACED A/C BURNT.'.

**17.06.1992** Service defect: 'A - ENGINE GOVERNOR ELECTRICAL - GOV.REPLACED A/C WIPER ARM ON LOAD REG U/S.'.

**22.07.1992** Service defect: 'SW - ENGINE CAMSHAFT AND COUNTERWEIGHTS INSPECTED OK'.

**30.07.1992** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR TRANCEIVER REPLACED.A/C LOCO DROPPING IN AND OUT OF TRANSITION.'.

**18.08.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAN MOTOR BRUSHES AND HOLDERS

CLEANED'.
**18.08.1992** Service defect: 'UN - GENERAL - BROKEN WIRE IN JUNCTION BOX REPAIRED'.
**20.08.1992** Service defect: 'UN - BOGIE - NO.3 GEAR CASE TIGHTENED.'.
**20.08.1992** Service defect: 'UN - DYNAMIC BRAKE - D/B FAN MOTOR CHECKED OK. GRIDS AND CONTACTORS OK.'.
**20.08.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - IOL MODULE REPLACED A/C U/S. DYNAMIC BRAKE FAULT..'.
**20.08.1992** Service defect: 'UN - FUEL SYSTEM - FUEL TANK DRAIN PIPE TIGHTENED.'.
**25.08.1992** Service defect: 'UN - DYNAMIC BRAKE - LOCO BOOKED AS NO DYNAMIC BRAKE A/C GRID BLOWER OPEN. LOOSELUGS ON FEED-BACK RESISTORS R34B TIGHTENED UP; LOCO LOAD'.
**16.09.1992** Service defect: 'A - AIR CONDITIONING - AIR CONDITIONING UNIT CHANGED.'.
**16.09.1992** Service defect: 'A - FUEL SYSTEM LINES - SUCTION FUEL LINE REPAIRED,A/C LOOSE G.F. LOAD TESTED OK.'.
**16.09.1992** Service defect: 'A - GENERAL - ENGINE ROOM DOOR HINGE REPAIRED.'.
**16.09.1992** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE VALVES CHANGED.CONTROL PIPE REPLACED.'.
**16.09.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - D/SIDE NO 4 SANDER HOSE REPLACED.'.
**16.09.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORNS CLEARED.'.
**16.09.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO LENS CHANGED A/C CRACKED.'.
**16.09.1992** Service defect: 'A - TRACTION MOTOR - T/M BLOWER SHUTTER & SHUTTER ARM REPLACED.'.
**16.09.1992** Service defect: 'A - DUMMY COUPLING REQ'D A END,TRI-MOUNT RUBBER SEAL'.
**16.09.1992** Service defect: 'A - TO REPLACE 'A' BOGIE,16/9.'.
**01.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT RELEASE VALVE REPLACED, A/C B/CYL PRESSURE LEAKING.'.
**05.12.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 35 T/MOTOR BRUSHES CHANGED, A/C SHORT,PULLED PIGTAILS & FRAYED PIGTAILS.'.
**22.12.1992** Service defect: 'UN - BOGIE - L1.R1.PEDESTAL LINERS REPLACED.OK.'.
**22.12.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO FILTER HEAD AND PIPE GASKET REPLACED.OK.'.
**22.12.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 4.T/MOTOR CLEANED UP A/C FLASHOVER .OK'.
**16.02.1993** Service defect: 'A - GENERAL - OBS SIDE BLIND REPLACED, W/WASHER UNBLOCKED.'.
**16.02.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'A'END UNCOUPLER RODS STRAIGHTENED.'.
**16.02.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - 2 RAD FANS EX DL 42 INSTALLED. UPGRADED FAN CONTACTORS INSTALLED.'.
**16.02.1993** Service defect: 'UN - AIR CON COMPRESSOR MOTOR TO MONITOR. EXHAUST MANIF'.
**16.02.1993** Service defect: 'UN - OLD SET SCREW FOR NO 12 CYL TO MONITOR FOR LEAKS'.
**16.02.1993** Service defect: 'UN - A/C BROKEN.16/2.'.
**12.03.1993** Service defect: 'TS - COOLING SYSTEM WATER PUMP - BOTH WATER PUMPS CHANGED A/C MAINTENANCE REQUIREMENTS'.
**12.03.1993** Service defect: 'TS - ELECTRICAL MISC. LOOSE CONNECTIONS - NO2 RAD FAN HIGH SPEED CONTACTOR REPLACED A/C LOOSE BOLTS ONBOTTOM BUSBAR CONNECTIONS CAUSED HOT JOINTS & COIL MELTDOWN.'.
**12.03.1993** Service defect: 'TS - LUBRICATING SYSTEM - OIL PUMP CHANGED A/C MAINTENANCE PROGRAM REQUIREMENTS.'.
**12.03.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - NO 1 RADIATOR FAN REPLACED A/C WINDINGS OPEN CIRCUITED.'.
**14.05.1993** Service defect: 'C - EXHAUST - 5,6,7 & 8 EXHAUST GASKETS REPLACED.'.
**14.05.1993** Service defect: 'C - RADIATOR/PRESSURISING FAN - NO 1 RAD FAN CABLE REPAIRED,A/C BURNT & TOO SHORT TO CONNECT'.
**04.08.1993** Service defect: 'A - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.
**04.08.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER UNIT FITTED. TRAIN PIPE LEAKS CHECKED, TESTED OK.'.
**24.08.1993** Service defect: 'SW - BOGIE - BOGIES ROTATION COMPLETED. DIRECTION TESTED.'.
**24.08.1993** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - MICRO PROCESSOR DISPLAY REPLACED A/C NOT WORKING.'.
**24.08.1993** Service defect: 'SW - OTHER BODY REPAIRS - ACCESS DOOR TO ALTERNATOR COMPT. REPAIRED. FRONT WINDSCREEN CHECKED FOR EXCESSIVE SCRATCHES, FOUND OK.'.
**24.08.1993** Service defect: 'SW - VIGILANCE - VIGILANCE REPORTED AS FAULTY, FOUND TO BE WORKING CORRECTLY.'.
**21.10.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR INSTALLATION COMPLETED - RADIATOR VEE INSTALLED.ALLFANS CONNECTED. LOCO FILLED WITH WATER.'.
**03.11.1993** Service defect: 'B - BOGIE - FLANGE LUBE CURVE SENSOR REPLACED, A/C BROKEN. FLANGE LUBE HOSES CHANGED, A/C HOLED.'.
**03.11.1993** Service defect: 'B - GENERAL - TWO ARM RESTS REPLACED, A/C BROKEN.'.
**03.11.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 7 SAND NOZZLES REPLACED.'.
**03.11.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. HOSE 'A'END D/SIDE REPLACED. 3 DUMMY COUPLINGS REPLACED'.
**03.11.1993** Service defect: 'B - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW REMOVED TO CLEAN RUST FROM FRAME. FRAME SEALED AND WINDOW REPLACED.'.
**03.11.1993** Service defect: 'B - GEAR CASE SEALS LEAKING.3/11.'.
**29.11.1993** Service defect: 'UN - BOGIE - SHOCKIES CHECKED OK, SIDE CLEARANCES CHECKED OK, SPRINGS CHECKED OK, A/C ROUGH RIDING.'.
**29.11.1993** Service defect: 'UN - MECHANICAL

MAINTENANCE - AIR BRAKE - DEAD ENGINE DEVICE FOUND CUT IN - A-1 CUT OFF REPLACED. 30CWMODULE REPLACED.'.

**30.11.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE REPLACED, A/C NO T/PIPE PRESSURE. TESTED OKAFTER VALVE WAS CHANGED.'.

**15.12.1993** Service defect: 'UN - BOGIE - BELLOWS REPLACED ON NO.5 T/M, A/C SPLIT.'.

**15.12.1993** Service defect: 'UN - BOGIE - SHOCKERS REPLACED,BOLSTER PADS REPLACED A/C ROUGH RIDING.'.

**15.12.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED ON NO.4 T/M, A/C SMASHED. MOST BRUSHES CHANGED ON NO.'S 5 AND 6 A/C BLOWN PIGTAILS.'.

**15.12.1993** Service defect: 'UN - L4 BROKEN SPRINGS TO REPLACE.15/12/93.'.

**05.01.1994** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE R34A RESISTOR REPLACED A/C NO GOOD, CAUSING WHEEL SLIP. ALL OTHER FEED BACKS CHECKED OK.'.

**05.01.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L6 SANDER BOX PLUGGED A/C LEAKING.'.

**21.01.1994** Service defect: 'TW - ELECTRICAL MISC. GROUND RELAY - 4 BRUSHES CHANGED IN NO.1 T/M A/C FRAYED PIGTAILS. I BRUSH IN NO.3 T/M, A/C FRAYED PIG TAILS.'.

**21.01.1994** Service defect: 'TW - TRACTION MOTOR FLASHOVER - NO.6 T/M HAD BAD F/OVER. A BALL OF COPPER WAS FOUND IN MOTOR.'.

**07.02.1994** Service defect: 'A - BOGIE - BOGIE SPRINGS REPLACED IN L4 AXLE BOX. GEAR CASE SEALS CHECKED OK. 'B'FLANGE NOZZLES CHECKED OK. LOCO CHECKED OK'.

**07.02.1994** Service defect: 'A - OTHER BODY REPAIRS - D/S WINDOW FRAME REPAIRED (RUST) WINDOW REPLACED.'.

**07.02.1994** Service defect: 'A - TRACTION MOTOR - NO 4 T/M BOTTOM BRUSH HOLDER CHANGED, A/C SPRING TENSION U/S'.

**07.02.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - 4 SLIP RING BRUSHES CHANGED.'.

**10.03.1994** Service defect: 'SW - BATTERY MAINTENANCE - ROLLERS IN BATTERY BOX SLIDES REPLACED WITH BEARINGS.'.

**10.03.1994** Service defect: 'SW - BOGIE - FLANGE LUBE REPAIRS - BRACKETS FITTED AND FLANGE LUBES TESTED OK.'.

**10.03.1994** Service defect: 'SW - GENERAL - DRIVERS SIDE ARM REST REPLACED.'.

**31.03.1994** Service defect: 'UN - ENGINE ROOM - ENGINE ROOM WASH COMPLETED, A/C OIL ON TOP DECK AND ROOF LHS'.

**13.04.1994** Service defect: 'D - BOGIE - R5 PEDESTAL REPLACED. FLANGE LUBE REPAIRED.'.

**13.04.1994** Service defect: 'D - COOLING SYSTEM RADIATOR - MARMON RUBBERS REPLACED ON MAIN JOINT TO RADIATOR.'.

**13.04.1994** Service defect: 'D - DYNAMIC BRAKE - BRUSH HOLDER ON D/B FAN MOTOR, D/S REAR REPAIRED.'.

**13.04.1994** Service defect: 'D - NO FAULT FOUND - CHECK FOR INTERNAL WATER LEAK - NONE FOUND.'.

**13.04.1994** Service defect: 'D - RADIATOR/PRESSURISING FAN - NO 2 RAD FAN, LOW CONTACTOR CHANGED, A/C THREAD STRIPPED CAUSING HOT LUG. LUG ALSO CHANGED.'.

**12.05.1994** Service defect: 'UN - NO FAULT FOUND - BOOKED AS GRIDS OPEN - ALL SYSTEMS CHECKED - NO FAULT FOUND EXTENDED RANGE CONTACTOR INSPECTION - CHECKED OK, LOCO SELF'.

**12.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRS TO PILOT AND DUMMY COUPLING HOSES COMPLETED.'.

**10.06.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR PIPE 'A'END REPAIRED.'.

### DL 40

Details: locomotive 'DL 40 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 27.08.1988
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 10.03.1997 | | |
| SW Service Mileage: | 430876 KM | SW Service Date: | 02.11.1996 |
| A Service Mileage: | 517761 KM | A Service Date: | 10.03.1997 |
| B Service Mileage: | 291117 KM | B Service Date: | 22.05.1996 |
| C Service Mileage: | 137342 KM | C Service Date: | 11.11.1995 |
| D Service Mileage: | 450381 KM | D Service Date: | 26.11.1996 |
| WT Service Mileage: | 890451 KM | WT Service Date: | 11.05.1992 |
| US Service Mileage: | 501319 KM | A Service Date: | 12.02.1997 |

**12.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**19.07.1989** Service defect: 'UN - BLOCKED FILTERS - FUEL IN BY/PASS - FUEL FILTERS REPLACED.'.

**24.07.1989** Service defect: 'UN - FUEL SYSTEM - FAULTY CUT/OFF - O/SIDE FUEL CUT/OFF RE-SET,TESTED OK.'.

**20.08.1989** Service defect: 'UN - BOGIE - BRAKES ADJUSTED.'.

**20.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO REPLACED A/C WATER IN SPEEDO.(DL36 SPEEDO USED.) SLIP RING JUMPER FITTED.'.

**20.08.1989** Service defect: 'UN - LUBRICATING SYSTEM - 4 BAGS ADDED TO EACH GEAR CASE.'.

**24.08.1989** Service defect: 'C - ELECTRICAL MISC. HEADLIGHT - BURNT OFF NEGITAVE ON RESISTOR OF REAR LIGHT BN4.'.

**24.08.1989** Service defect: 'C - ENGINE WATER LEAK - NOS 8 & 10 HEAD ELBOWS REPLACED A/C LEAKING.'.

**29.08.1989** Service defect: 'UN - FUEL SYSTEM - O/S FUEL FLOAT CUT OFF,CHECKED OK & D/S FLOAT ADJUSTED.'.
**25.10.1989** Service defect: 'UN - ENGINE - VALVE BRIDGES FITTED AT BATHURST (EMD SUPPLIED.)'.
**25.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - REPLACE EQUIPMENT AFTER RETURNING FROM BATHURST.'.
**08.11.1989** Service defect: 'TS - ALTERNATOR - GROUND RELAY OPERATION,8 NO.BRIDGE FUSES BLOWN & REPLACED. 4 NO.BRIDGE DIODES REPLACED OPEN CIRCUIT & 1.NO.BRIDGE DIODE'.
**20.11.1989** Service defect: 'A - ENGINE CYLINDER HEADS - NO.8 & 10 HEADS REPLACED A/C CRACKED AT WATER ELBOW OUTLET. NO.8 HEAD OUT - 87M-0455 , NO.8 HEAD IN -'.
**20.11.1989** Service defect: 'A - LUBRICATING SYSTEM OIL COOLER - LOOSE BOLTS TIGHTENED ON OIL COOLER.'.
**30.11.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - ROMPAK - LOGIC + EXCITATION ROMPAK CHANGED OUT.'.
**30.11.1989** Service defect: 'UN - NO FAULT FOUND - POWER LOSS - NO FAULT DETECTED ON LOCO.'.
**30.11.1989** Service defect: 'UN - RADIO REPAIR - RADIO - RE-LOCATION COMPLETED.'.
**26.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**05.01.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS CHECKED OK N DEPOT.'.
**05.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO EQUALISING PRESSURE.RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**25.01.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - ROMPAK - EXCITATION ROMPAK CHANGED/OUT. (IN 00038) - (ELIMINATES SANDING AT HIGH SPEED) (OUT 02048)'.
**25.01.1990** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - P2A VALVE REPLACED,OPERATION TESTED OK.'.
**26.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BLOW IN CAB - AUTOMATIC BRAKE VALVE REPLACED.'.
**05.02.1990** Service defect: 'UN - AUXILLARY MACHINES - FRIDGE MODIFICATION - OIL/MIST FILTER FITTED.'.
**05.02.1990** Service defect: 'UN - EXHAUST - BLOWN GASKET - MIDDLE EXHAUST STACK GASKET REPLACED.'.
**05.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIR - D/SIDE ARM/REST PADDING REPLACED.'.
**14.02.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.3(5),R.3(2). ' ' ' . - L.4(0),R.4(4). 3 ' ' .'.
**14.02.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.5(1),R.5(1). ' ' ' . - L.6(3),R.6(5). ' ' ' .'.
**14.02.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(7),R.1(2). TMGL 2 BAGS ADDED. - L.2(4),R.2(4). ' ' ' .'.
**14.02.1990** Service defect: 'B - ELECTRICAL MISC. LOOSE CONNECTIONS - AUX/GEN.C/B - LOOSE WIRE ON THE BACK OF C/BREAKER SECURED. TRIPPING'.
**14.02.1990** Service defect: 'B - ENGINE - USA'.
**14.02.1990** Service defect: 'B - ENGINE - VALVE BRIDGES - NO1,4,&9 VALVE BRIDGES WITH EMD TEST LASH ADJUSTERS REMOVED AND GIVEN TO CLYDE REP FOR RETURNING TO'.
**19.02.1990** Service defect: 'SW - RADIO REPAIR - MODIFIED CO-AXIAL FEED TO UHF ANTENNA.'.
**23.02.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE - NEW SET OF BRUSHES FITTED. FAN MOTOR WASHED OUT A/C OIL CONTAMINATION. LOAD TESTED OK.'.
**24.02.1990** Service defect: 'TS - GENERAL LOSS OF POWER - LOSING POWER - SGC CONTACTOR CHANGED A/C COIL BURNT OUT.'.
**24.02.1990** Service defect: 'TS - OTHER BODY REPAIRS - CAB MOUNTS - CAB LIFTED AND SHIMS ADDED TO CAB MOUNTS BY CLYDE SERVICE STAFF.'.
**02.03.1990** Service defect: 'UN - BOGIE - - L.3(6),R.3(2). - L.4(0),R.4(4).'.
**02.03.1990** Service defect: 'UN - BOGIE - - L.5(0),R.5(2). - L.6(3),R.6(5). TO BE PROFILED'.
**02.03.1990** Service defect: 'UN - BOGIE - FLANGE WEAR RECORD - L.1(9),R.1(2). - L.2(5),R.2(5).'.
**02.03.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - S.G.C.CONTACTOR - SET/UP ON BENCH & REPLACED.'.
**02.03.1990** Service defect: 'UN - NO FAULT FOUND - FLATS ON WHEELS - CHECKED OK.'.
**02.03.1990** Service defect: 'UN - TO BE PROFILED A/C L.1 FLANGE (9). (2/3)'.
**06.03.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - SHARP FLANGE - FULL PROFILE COMPLETED. L.1 FLANGE (9).'.
**06.03.1990** Service defect: 'WT - MILE END FOR BRAKE ADJUST AND SPEEDO RESET'.
**11.03.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE FAULT - AT WIRRAPPA - STAFF SENT OUT, ON ARRIVAL FOUND EMERGENCY BRAKE PIPE COCK IN OPEN POSITION AND'.
**11.03.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE FAULT - MU-2A VALVE IN LEAD POSITION. ALL OTHER EQPT, CHECKED OK. LOCO STARTED AND BRAKE TESTED OK.'.
**14.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(5&6),3 BAGS IN OTHERS.'.
**16.03.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - VALVE CHANGE/OUT -'.
**27.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE VALVE UNIT TO REPAIR.RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**31.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE VALVE FAULTY.RETURNED TO PT AUGUSTA FOR REPAIRS.'.
**09.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS(4&6),4 BAGS(5),OTHERS OK.'.
**09.04.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - H/LIGHT MODIFICATION COMPLETED.'.
**09.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BLOWN GASKET - IND/BRAKE VALVE REPLACED.'.
**12.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - L2 BRAKE ADJUSTED.'.

**18.04.1990** Service defect: 'UN - TO TRAIL A/C ROUGH/RIDING. (18/4)'.
**18.04.1990** Service defect: 'UN - DYNAMIC BRAKE FAN ARMATURE TO GRIND. (18/4)'.
**20.04.1990** Service defect: 'UN - ENGINE - OIL PUMP - GEARS CHECKED OK.'.
**28.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. GEAR/CASES - NO.2,3&4 G/CASES TIGHTENED.'.
**11.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(3&5),OTHERS CHECKED OK.'.
**11.05.1990** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - E.P.VALVE FAULTY - COMPRESSOR GOVN E.P.VALVE REPLACED.'.
**18.05.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 2 BAGS(3&6),3 BAGS(1,2,4&5). (TMGL)'.
**18.05.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(1),R.3(2). - L.4(2),R.4(4).'.
**18.05.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(1),R.5(3). - L.6(2),R.6(4).'.
**18.05.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANE WEAR RECORD - L.1(5),R.1(6). - L.2(1),R.2(5).'.
**18.05.1990** Service defect: 'A - CONTACTOR MISCELLANEOUS - CONTACTOR - SGC CHECKED BY CLYDE PERSONEL.'.
**18.05.1990** Service defect: 'A - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES - NO.5&7 BRIDGE ASSYS.CHANGED/OUT A/C EMD INST'.
**25.05.1990** Service defect: 'SW - COOLING SYSTEM RADIATOR - MODIFICATION - RADIATOR MOD.COMPLETED.'.
**25.05.1990** Service defect: 'SW - ELECTRICAL MISC. MODULES - HASLER TELOC 2000 MODIFIED - EPROM CHANGED ON COMPX BOARD, ANINT BOARD CHANGED.'.
**25.05.1990** Service defect: 'SW - RADIATOR/PRESSURISING FAN - COMM.GRIND - DYN/FAN REMOVED TO GRIND COMM.& RE-FITTED.'.
**07.06.1990** Service defect: 'UN - BOGIE - BOGIES REVERSED.'.
**08.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HANDLE - INDEPENDANT BRAKE HANDLE REVERSED. NO HORN - MAGNET VALVE REPLACED & TESTED OK.(NO LOW HORN)'.
**17.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**28.06.1990** Service defect: 'UN - VIGILANCE - DRIVERS SIDE VIGILANCE BUTTON REPAIRED A/C LOOSE.'.
**17.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(4&5),4 BAGS(1,2,3&6). (TMGL)'.
**31.07.1990** Service defect: 'UN - DB FAULT TO LOCATE AT PORT AUGUSTA'.
**04.08.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - ALL FULL.'.
**04.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - CHECKED & TESTED OK.'.
**05.08.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HASLER FAULT - PLUG SECURED DISPLAY AL-09 STILL ON SCREEN.'.
**17.08.1990** Service defect: 'D - COOLING SYSTEM RADIATOR - RADIATOR LEAK - D/SIDE NO.1,O/SIDE NO.1&2 REPLACED.'.
**31.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL LEVELS CHECKED OK. EXCESS TRAVEL - BRAKES ADJUSTED.'.
**05.09.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK - REPAIRED.'.
**10.09.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - O/SIDE NO.2 RADIATOR REPLACED.'.
**26.09.1990** Service defect: 'UN - COOLING SYSTEM - COOLING WATER - CHANGED A/C LAB REPORT.'.
**26.09.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - O/SIDE NO.2 RADIATOR REPLACED AGAIN.'.
**27.09.1990** Service defect: 'UN - BOGIE - BRAKES ADJUSTED.'.
**30.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2,5&6),OTHERS OK. (TMGL)'.
**11.10.1990** Service defect: 'UN - NO FAULT FOUND - FUEL SUCTION BOOKED-UNABLE TO FAULT,LOCO TO BE MONITORED BELOW 3000L IN FUEL TANK'.
**15.10.1990** Service defect: 'TS - FUEL SYSTEM - FUEL PRESSURE DROPPED AWAY,LOOSE COUPLING-CHECKED OK'.
**15.10.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - W.H.B. TESTS'.
**26.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C LONG TRAVELS.'.
**06.11.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK - O/SIDE VENT PIPE REPLACED.'.
**06.11.1990** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL NOT PICKING/UP -'.
**13.11.1990** Service defect: 'A - AIR CONDITIONING - SHAFT/SEAL U/S - AIR/COND UNIT CHANGED/OUT. - (SERIAL NO.19561-14 J13)'.
**13.11.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 1 BAG(3),3 BAGS(1&2),OTHERS OK.'.
**13.11.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(0),R.3(2). - L.4(2),R.4(4).'.
**13.11.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(5),R.5(4). - L.6(2),R.6(3).'.
**13.11.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(0),R.1(3). - L.2(5),R.2(8).'.
**13.11.1990** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - W.H.B.MODS - COMPLETED.'.
**13.11.1990** Service defect: 'A - STARTER MOTOR - STARTER/MOTORS - REPLACED.'.
**13.11.1990** Service defect: 'A - VALVE BRIDGE/LASH ADJUSTER - VALVE/BRIDGES - NO.6,8&12 REPLACED.'.
**17.11.1990** Service defect: 'UN - AIR CONDITIONING - UNIT NOT COOLING - DISCHARGE PIPE REPLACED A/C BROKEN. - UNIT RE-GASSED,OPERATION CHECKED OK.'.
**01.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(3),6 BAGS(5),OTHER LEVELS OK. (TMGL)'.
**18.01.1991** Service defect: 'UN - AIR CONDITIONING - AIR/COND - REPAIRS COMPLETED.'.
**01.03.1991** Service defect: 'UN - EXHAUST - EXHAUST LEAK - NO.1 EXHAUST STACK GASKET REPLACED.(BLOWN)'.
**01.03.1991** Service defect: 'UN - OTHER BODY REPAIRS - ARM U/S - CONNECTING ARM TO RAM ON T/MTR

SHUTTERS REMOVED.'.
**12.03.1991** Service defect: 'UN - ENGINE - ENGINE MOUNTS TIGHTENED,A/C LOOSE.ENGINE RELEASED TO TRIAL ONLY.'.
**15.03.1991** Service defect: 'SW - COOLING SYSTEM RADIATOR - MODIFICATION - DYN/BRK FAN VENT MOD.COMPLETED.'.
**15.03.1991** Service defect: 'SW - OTHER BODY REPAIRS - SEAL U/S - CAB BODY SEAL RE-NEWED.'.
**15.05.1991** Service defect: 'A - CONTACTOR EP VALVES - MAGNET VALVE REPLACED,REMOVED FOR DL 50.'.
**15.05.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - OBS/SIDE MIDDLE SAND VALVE REPLACED,REMOVED FOR DL 50.'.
**15.05.1991** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - DRIVERS BRAKE VALVE REPLACED.'.
**15.05.1991** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO 1 RAD FAN CABLE DUCTS REWELDED,A/C CRACKED.'.
**27.05.1991** Service defect: 'UN - CONTACTOR EP VALVES - SANDING MAGNET VALVE CHANGED & HOSE ON SAME SET UP'.
**27.05.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO EXHAUST GASKET CHANGED.'.
**27.05.1991** Service defect: 'UN - GENERAL - TOILET FLUSH VALVE CHECKED,UNABLE TO ADJUST FURTHER.'.
**27.05.1991** Service defect: 'UN - GENERAL - WEATHER SHIELD AROUND EXHAUST TOP,WELDED UP,A/C CRACKS.'.
**27.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP SAFETY VALVE ADJUSTED.'.
**27.05.1991** Service defect: 'UN - ENGINE INTAKE AIR FILTERS TO REPLACE.NOT SUFFICIEN'.
**27.05.1991** Service defect: 'UN - T NO IN STORE.CRACKS IN HEAT SHIELD ON TURBO END'.
**27.05.1991** Service defect: 'UN - OF MANIFOLD.HINGE ON OBS/SIDE ENGINE ROOM DOOR'.
**27.05.1991** Service defect: 'UN - BROKEN.'.
**07.06.1991** Service defect: 'UN - BLOCKED FILTERS - FILTERS CLOGGED - TURBO AIR/INTAKE FILTERS RE-NEWED.'.
**07.06.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - BLOWN GASKET - TURBO EXPANSION JOINT GASKET REPLACED. - 7 NO.BOLTS REPLACED AROUND JOINT A/C MISSING.'.
**07.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN HINGE - O/S ENGINE ROOM DOOR RE-WELDED.'.
**07.06.1991** Service defect: 'UN - CRACKS IN HEAT SHIELD ON TURBO END OF MANIFOLD.'.
**07.06.1991** Service defect: 'UN - (7/6)'.
**25.07.1991** Service defect: 'TS - WHEELSLIP - CONTINUOUS WHEEL/SLIP - RETURNED TO M.P.C.FOR REPAIRS.'.
**25.07.1991** Service defect: 'TS - RETURN M.P.C. FOR OIL PUMP REPLACEMENT.'.
**02.08.1991** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.'.
**02.08.1991** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - 8 DIODE PROT FUSES REPLACED,BOTTOM RHS BANK, A/C SHORT CIRCUITED.'.
**02.08.1991** Service defect: 'SW - GENERAL - OBS SEAT REPLACED.'.
**02.08.1991** Service defect: 'SW - LUBRICATING SYSTEM - OIL PUMP CHANGED,TESTED OK.NO LEAKS FOUND.'.
**02.08.1991** Service defect: 'SW - MAIN GENERATOR - 5 POSITIVE BASE & 2 NEGATIVE BASE DIODES REPLACED, A/C SHORTCIRCUITED'.
**02.08.1991** Service defect: 'SW - NO FAULT FOUND - TESTED FOR WHEELSLIP, NO FAULT FOUND.'.
**02.08.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - NO 3 RADIATOR FAN HIGH SPEED CONTACTOR COIL REPLACED, A/C ORIGINAL REMOVED FOR DL 38.'.
**02.08.1991** Service defect: 'SW - VIGILANCE - DRIVERS VIG BUTTON REPAIRED.'.
**12.08.1991** Service defect: 'C - CONTACTOR MISCELLANEOUS - SGC CONTACTOR TIPS REPLACED, A/C ARCING.'.
**12.08.1991** Service defect: 'C - EXHAUST - EXHAUST HATCH TEMPORARILY WELDED.'.
**12.08.1991** Service defect: 'C - NO 2 FAN CONTACTOR FAST SPEED DISCONNECTED, A/C'.
**12.08.1991** Service defect: 'C - BURNT CONTACTOR.NIL STOCK MPC.12/8.'.
**30.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LAMPHOLDER REPLACED IN ENGINE ROOM.'.
**30.08.1991** Service defect: 'UN - EXHAUST - EXHAUST STACK CHECKED OK FOR SPLIT.SHROUD HAS SLIGHT SPLIT.'.
**03.09.1991** Service defect: 'TS - ALTERNATOR - BLOWN STUD - WINDING CONNECTION STUD REPLACED. * FAILED TRAIN NO.6347 *'.
**03.09.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - 8 NO.FUSES & DIODES REPLACED A/C SHORTED. - (MIDDLE SECTION,R/H SIDE DIODE BANK)'.
**16.10.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO 2 RADIATOR FAN REMOVED,A/C U/S.'.
**16.10.1991** Service defect: 'UN - NO 2 RAD FAN REMOVED,A/C U/S.16/10.'.
**01.11.1991** Service defect: 'SW - ALTERNATOR - DIODE/FUSE MOD.- COMPLETED.'.
**01.11.1991** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - INSTALLED.'.
**01.11.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN PIN MOD.- COMPLETED.'.
**01.11.1991** Service defect: 'SW - NO.3 RAD/FAN LOW SPEED FCS-3 SHORTED CONTACTOR.'.
**12.11.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES AUTO DRAIN RENEWED.'.
**12.11.1991** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO 1 RAD FAN PLUG SOCKET REPLACED,A/C BROKEN THREADS.'.
**26.11.1991** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.TESTED OK.'.
**28.11.1991** Service defect: 'SW - FUEL SYSTEM - REPLACED FUEL SHUT OFF VALVE,FUEL TANK (OBS SIDE).'.
**03.01.1992** Service defect: 'UN - EXHAUST - CRACKED EXHAUST WELDED.'.
**03.01.1992** Service defect: 'UN - AIR CON. UNIT TO CHANGE.'.
**07.01.1992** Service defect: 'UN - AIR CONDITIONING - AIR CON. UNIT CHANGED OVER.'.
**10.02.1992** Service defect: 'B - L.H.S. RADIATOR HAS SLIGHT LEAK.10/2.'.
**19.02.1992** Service defect: 'UN - AIR CONDITIONING - AIR/CON UNIT CHANGED.'.

**25.02.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE -
**25.02.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - WORN REAR KNUCKLE REPLACED.'.
**25.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK BEHIND COW CATCHER REPAIRED.AIR LEAK ON BRAKE RACK REPAIRED.'.
**30.04.1992** Service defect: 'CA - ELECTRICAL MISCELLANEOUS - IOL3 MODULE CHANGED. LOOSE WIRE PA9 REPAIRED.'.
**08.05.1992** Service defect: 'A - ELECTRICAL MISC. MODULES - FCS MODULE REPLACED,LOCO LOADS OK.'.
**08.05.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES AUTOMATIC DRAIN REPLACED.DRIVERS/SIDE 'B'END TRAIN PIPE HOSE REPLACED.'.
**29.07.1992** Service defect: 'A - AUXILLARY MACHINES - AUX. GEN.MOUNT WELDED A/C CRACKED. AUX. GEN.COVER WELDED A/C BROKEN.'.
**29.07.1992** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - WIRE ZA18 RE-LUGGED A/C LOOSE NUT ON 33 BOARD CAUSING SLIGHTBURN.-FOG LIGHT REPLACED.'.
**29.07.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - ENGINE TEMP.PROBE REPLACED.A/C BROKEN.'.
**29.07.1992** Service defect: 'A - LUBRICATING SYSTEM - LEAK IN TOP PIPE OIL COOLER D/SIDE REPAIRED.'.
**29.07.1992** Service defect: 'A - MECHANICAL EQUIPMENT - FLANGE LUBRICATER REPAIRED.'.
**19.10.1992** Service defect: 'B - COOLING SYSTEM - COOLANT CHANGED.'.
**19.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDER PIPE BENT BACK INTO POSITION.'.
**30.10.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - LOCO SENT ON TRIAL RUN, A/C GROUND RELAYS, NO FAULT FOUND.'.
**12.11.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REMOVED,COUNTERWEIGHT GEAR REMOVED,CHECKED OK.REFITTEDCOUNTERWEIGHTS,RETORQUED & REWIRED.TURBO REPLACED.'.
**12.11.1992** Service defect: 'UN - FUEL SYSTEM - FUEL TANK INSTALLED & TORQUED UP.'.
**12.11.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL PUMP CHANGED.'.
**12.11.1992** Service defect: 'UN - TRACTION MOTOR - NO 3 T/M NOSE SUSPENSION WEAR PADS REWELDED BACK INTO POSITION, A/C BROKEN.'.
**14.01.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - O/SIDE CAB LIGHT REPLACED OK. 'A' END HEADLIGHT REPLACED OK.'.
**14.01.1993** Service defect: 'A - ENGINE - NO1 PROBE SWAPPED WITH NO3 PROBE.ACCOUNT INCORECT ENGINE TEMP.READING .'.
**14.01.1993** Service defect: 'A - ENGINE TEMP.PROBES REQD.'.
**16.04.1993** Service defect: 'C - COOLING SYSTEM - ENGINE TEMP PROBES 1 & 3 SWAPPED,A/C NO 1 FAULTY. CHECKED OKINCLUDING PLUG & CABLE MOVEMENT.'.
**16.04.1993** Service defect: 'C - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDENT RELEASE EXHAUST REPAIRED.'.
**16.04.1993** Service defect: 'C - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW REPAIRED.'.
**04.05.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - SECTION OF T/M BLOWER GRILLE FOUND INSIDE ALTERNATOR ACROSS FUSES & CABLES. MAIN CABLES INSULATED, A/C RUBBING ON COVERS'.
**04.05.1993** Service defect: 'TS - GENERAL - AIR FRIDGE REPAIRED,CHECKED OK.'.
**14.05.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN GRID REPLACED,A/C BLOWN.'.
**14.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - A1 CHARGE VALVE REPLACED,A/C LEAKING. LOCO LOAD TESTED OK.'.
**28.05.1993** Service defect: 'UN - ENGINE - ENGINE PROTECTION DEVICE REPLACED. LOAD TESTED OK.'.
**28.05.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NO.7 CYLINDER HEAD REPLACED.'.
**22.06.1993** Service defect: 'SW - COOLING SYSTEM - ENGINE TEMPERATURE PROBE REPLACED,A/C FAULTY.'.
**22.06.1993** Service defect: 'SW - COOLING SYSTEM WATER PUMP - L.H. & R.H. WATER PUMPS REPLACED,CHECKED OK. LOCO LOAD TESTED, 3,030 HP.'.
**22.06.1993** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN CONTACTORS REPLACED WITH MODIFIED ONES. CONTACTOR TEST OK. FAN TEST OK.'.
**07.07.1993** Service defect: 'A - BOGIE - LOCO REPORTED AS ROUGH RIDING. SHOCKER FOUND FITTED UPSIDE DOWN. RE-FITTED CORRECTLY.'.
**07.07.1993** Service defect: 'A - FUEL SYSTEM - AEROQUIP FUEL BLEED LINE LEAKING. - HOSE REPLACED.'.
**07.07.1993** Service defect: 'A - GENERAL - ENGINE ROOM DEGREASED A/C EXCESSIVELY GREASY.'.
**07.07.1993** Service defect: 'A - GENERAL SHUTDOWN - LOW WATER BUTTON REPAIRED A/C LOCO SHUTTING DOWN. TOP NUT REPLACED ON WATER SIGHT GLASS A/C MISSING.'.
**07.07.1993** Service defect: 'A - OTHER BODY REPAIRS - BOTH OUTER DOOR LATCHES REPLACED.'.
**07.07.1993** Service defect: 'A - REVERSER - THROTTLE CONTROL SPRING REPLACED A/C BROKEN.'.
**07.07.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - 28T/M BRUSHES CHANGED A/C CONDEMNING LIMIT. 2 BRUSHES CHANGED A/C PULLED PIGTAILS.'.
**07.07.1993** Service defect: 'A - VIGILANCE - VIGILANCE BUTTON REPLACED.'.
**21.07.1993** Service defect: 'UN - ENGINE - NO 11 POWER ASSEMBLY REPLACED,A/C DROPPED VALVE. NO 5 POWER ASSEMBLY REPLACED,A/C DAMAGED DUE TO DROPPED VALVE EX NO 11.'.
**12.08.1993** Service defect: 'UN - TRACTION MOTOR - NO 4 T/M AMPS READING NEARLY DOUBLE ALL OTHERS AT STALL. WIRES FROM ACT5 PUT ON ACT4, WIRES FROM ACT4 PUT ON ACT3.'.
**18.08.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO.4 WHEEL SET CHANGED A/C UNDER SIZED.'.
**18.08.1993** Service defect: 'SW - ELECTRICAL MISC. LOOSE CONNECTIONS - T/M CABLE LUG REPAIRED A/C LOOSE.'.
**18.08.1993** Service defect: 'SW - OTHER BODY REPAIRS - DRIVERS SIDE CAB SUSPENSION PAD ADJUSTED A/C

BOOKED FOR ROUGH RIDING.'.

**20.08.1993** Service defect: 'UN - GENERAL LOSS OF POWER - NO.4 MOTOR T/M READING 200AMPS ABOVE OTHER MOTORS. BROKEN RESISTOR LEAD ON FRP PANEL. PANEL CHANGED, ALL MOTORS SAME.'.

**27.08.1993** Service defect: 'UN - ENGINE - NO 5 POWER ASSEMBLY & PISTON CHANGED, A/C LINER DAMAGED. LOAD TESTED & INSPECTED INTERNALLY FOR LEAKS, CHECKED OK.'.

**15.09.1993** Service defect: 'UN - BOGIE - BOGIES INSPECTED OK, A/C LOCO BOOKED FOR ROUGH RIDING.'.

**15.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE LEAK REPAIRED.'.

**23.09.1993** Service defect: 'B - TRACTION MOTOR - ONE BOOT REPLACED ON NO 2 T/MOTOR, A/C SPLIT.'.

**23.09.1993** Service defect: 'B - NO 1 TEMP PROBE SWAPPED WITH NO 3, A/C U/S. PROBE'.

**23.09.1993** Service defect: 'B - TO CHANGE AT A LATER DATE.23/9.'.

**05.10.1993** Service defect: 'SW - BOGIE - NO.4 AXLE BOX UPSIDE DOWN - CORRECTED.'.

**05.10.1993** Service defect: 'SW - NO.3 TEMP. PROBE TO CHANGE A/C U/S.'.

**09.11.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED, DIRECTION TESTED OK.'.

**08.12.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - SGC CONTACTOR CHANGED, A/C MISALIGNED.'.

**08.12.1993** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - FUSES ON NO 2 RAD FAN CHANGED.'.

**08.12.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - NO 1 AND NO 3 TEMP PROBE CHANGED.'.

**08.12.1993** Service defect: 'A - GENERAL - HANDRAIL BEHIND COMPRESSOR REMOVED, WELDED AND REPLACED.'.

**23.12.1993** Service defect: 'UN - BOGIE - 'A'END BOGIE EXAMINED AND LATERAL BOLSTER SHOCK ABSORBER FOUND TO BE U/S. SHOCKER AND RUBBERS REPLACED.'.

**23.12.1993** Service defect: 'UN - OTHER BODY REPAIRS - D/SIDE ENGINE ROOM HAND RAIL RE-WELDED A/C BROKEN.'.

**09.03.1994** Service defect: 'D - COOLING SYSTEM RADIATOR - MARMON COUPLINGS REPLACED ON PIPES TO RADIATORS.'.

**09.03.1994** Service defect: 'D - ENGINE - MARMON COUPLINGS REPLACED ON PIPE TO HEAT EXCHANGER.'.

**09.03.1994** Service defect: 'D - GENERAL - O/SIDE BLIND REPAIRED. D/SIDE SEAT REPLACED.'.

**09.03.1994** Service defect: 'D - MECHANICAL EQUIPMENT SANDING GEAR - SANDER VALVE REPLACED, A/C STICKING.'.

**09.03.1994** Service defect: 'D - RADIATOR/PRESSURISING FAN - 2 RAD FAN PINS CHANGED, A/C BLOWN. 2 FUSES REPLACED IN AC CABINET. NO 2 RAD FAN REPLACED, A/C MELRED PINS. NO 3 RAD'.

**15.03.1994** Service defect: 'SW - ENGINE - OIL LEAKS REPAIRED TO TURBO FILTER LINE AND HOUSING.'.

**15.03.1994** Service defect: 'SW - GENERAL - AIR FRIDGE REPLACED.'.

**15.03.1994** Service defect: 'SW - OTHER BODY REPAIRS - ENGINE ROOM AND BODY WASHED.'.

**21.03.1994** Service defect: 'UN - BOGIE - R2 BRAKE CYLINDER BRAKE HANGER PINS UNSIEZED, A/C CAUSING BRAKE CYLINDER TO JAM ON AND NOT RELEASE. REPAIRED.'.

**12.04.1994** Service defect: 'UN - ALTERNATOR - AR11 ALTERNATOR CHECKED OK. LOCO METERED OK.'.

**12.04.1994** Service defect: 'UN - TRACTION MOTOR - CLEANED UP COMMUTATOR ON NO 2 MOTOR. REPLACED TOP COVER. REPLACED ALL BRUSHES IN NO 2 MOTOR. REPLACED 4 BRUSHES IN NO'.

**28.04.1994** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS SIDE (SLIDING) WINDOW REPAIRED.'.

**14.06.1994** Service defect: 'A - BOGIE - AXLE BOX SPRINGS - L1,L3,R2 AND R4 REPLACED.'.

**14.06.1994** Service defect: 'A - COOLING SYSTEM RADIATOR - 8 MARMON COUPLING RUBBERS ON RADIATOR PIPE WORK REPLACED.'.

**14.06.1994** Service defect: 'A - GENERAL - SIDE WINDOW OPERATION CHECKED OK.'.

**14.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR MAGNET VALVE CHANGED.'.

**DL 41**

Details: locomotive 'DL 41 A' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 30.09.1988
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 29.04.1997 | | |
| SW Service Mileage: | 571819 KM | SW Service Date: | 29.04.1997 |
| A Service Mileage: | 523811 KM | A Service Date: | 08.02.1997 |
| B Service Mileage: | 469786 KM | B Service Date: | 01.11.1996 |
| C Service Mileage: | 219783 KM | C Service Date: | 17.01.1996 |
| D Service Mileage: | 818854 KM | D Service Date: | 12.01.1993 |
| WT Service Mileage: | 722457 KM | WT Service Date: | 08.02.1992 |
| US Service Mileage: | 568710 KM | A Service Date: | 24.04.1997 |

**07.07.1989** Service defect: 'SW - ENGINE CYLINDER HEADS - FEATHERED COLLETS - NEW VALVES FITTED IN NO.4,11&12 HEADS. - HEADS REPLACED.'.

**07.07.1989** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY CONTROL -'.

**12.07.1989** Service defect: 'UN - 'A'&'B'END AUTO COUPLERS TO CHANGE.'A'END AIR'.

**12.07.1989** Service defect: 'UN - HOSES TO CHANGE.'.

**14.07.1989** Service defect: 'UN - BODY REPAIRS - ACCIDENT - - 'A'&'B'DRAW/GEAR ASSEMBLIES REPLACED. - SUPER/FICIAL DAMAGE TO FRONT NOSE PANEL.'.
**14.07.1989** Service defect: 'UN - BODY REPAIRS - ACCIDENT - COLLISION REPAIRS - O/SIDE BRAKE PIPE REPAIRED.(PIPE SPLIT) - D/SIDE NO.3&4 PIPES/HOSES REPLACED.'.
**18.07.1989** Service defect: 'TS - NO FAULT FOUND - DROPPING LOAD - LOCO LOAD/TESTED NOT FAULTED. POWER SURGE. - LOCO TEST/RUN WITH BL30,LOCO NOT FAULTED.'.
**22.07.1989** Service defect: 'UN - NO FAULT FOUND - DROPPING LOAD - RADAR TRANSCIEVER & PLUG CHECKED OK. - LOCO TESTED IN DEPOT & TRACK/TESTED OK.'.
**20.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SLIP RING JUMPER FITTED.'.
**20.08.1989** Service defect: 'UN - ENGINE - SEAL ON MICHIANA FILTER HOUSING REPLACED A/C LEAKING.'.
**20.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN EQUALISING RES PIPE REPAIRED'.
**31.08.1989** Service defect: 'UN - BOGIE - LUBRICATION CHECK - ALL GEAR CASES OK.'.
**31.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DYNAMIC BRAKE MAGNET VALVE REPLACED (ADEL),A/C FAULTY.'.
**04.09.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE OPEN GRID.CHECKED VISUAL & LOAD TESTED OK.'.
**25.09.1989** Service defect: 'UN - NO FAULT FOUND - DROPPING LOAD - LOAD/TESTED IN DEPOT NOT FAULTED. - ELECTRICAL CIRCUITS INSPECTED,CHECKED OK.'.
**27.09.1989** Service defect: 'TS - NO FAULT FOUND - DROPPING LOAD - LOCO WORKED 3339 TO WHYALLA & 4260 RETURN. - LOCO WORKED WITH/OUT ANY FAULT OCCURING.'.
**03.10.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - LOSING POWER - VR13 REPAIRED.(LOOSE ZENER DIODE) NOTCH 8. - 2 RESISTORS RE-SOLDERED.(POOR CONNECTION)'.
**03.10.1989** Service defect: 'UN - NO FAULT FOUND - * LOAD/TESTED & TEST/RUN COMPLETED WITH/OUT FURTHER FAULTS *'.
**11.10.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - DROPPING LOAD - RADAR UNIT EX.DL36 FITTED TO TRY & RECTIFY - DROPPING LOAD PROBLEM.'.
**11.10.1989** Service defect: 'TS - NO FAULT FOUND - * FRONT TERMINAL BULK HEAD BOARD CHECKED,NOT FAULTED *'.
**11.10.1989** Service defect: 'TS - OTHER BODY REPAIRS - CAB SEAL - NEW REAR CAB SEAL REPLACED.(STILL ORIGINAL DESIGN'.
**13.10.1989** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - DROPPING LOAD - LOOSE CONNECTION IN RADAR CIRCUIT ON 70BOARD - TIGHTENED.(SUSPECT CAUSE OF PROBLEM)'.
**15.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CRACKED PIPE - MAIN RESERVOIR PIPE RE-WELDED & TESTED OK. *POSITION* - (AIR RECIEVER TANK 2ND BEND FROM TANK)'.
**25.10.1989** Service defect: 'UN - BOGIE - REWELDED ALL MANGANESE WEAR PLATES.SHIMMING REMOVED FROM TRI-PADS & BOLSTER PADS & RESHIMMED.'.
**25.10.1989** Service defect: 'UN - TRACTION MOTOR - NO.5.TRACTION MOTOR REPLACED A/C MACHINGING REQUIRED DUE TO WEAR.'.
**31.10.1989** Service defect: 'WT - BRAKES TO ADJUST MILE END D/D'.
**10.11.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - PLUG TO LIGHTS ON ENGINE ROOM HATCH BROKEN , REMOVED PLUG & JOINED EL & NL WIRES.'.
**10.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - 4 BAGS OF CRATER ADDED TO ALL GEAR CASES.'.
**20.11.1989** Service defect: 'UN - NO FAULT FOUND - V/CONTROL SEQUENCE LIGHTS CHECKED OK.'.
**01.12.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - ROMPAK - LOGIC + EXCITATION ROMPAK CHANGE/OUT.'.
**01.12.1989** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRS - MINOR CAB REPAIRS COMPLETED.'.
**01.12.1989** Service defect: 'UN - RADIO REPAIR - UNIT FAULT - RADIO UNIT REPLACED.'.
**19.12.1989** Service defect: 'UN - VIGILANCE - F/MANS VIGILANCE BUTTON REPAIRED A/C NOT CANCELING.'.
**29.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**11.01.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN.FAULT - GRID BLOWER MOTOR CHANGED/OUT.(FLATS ON COMM.)'.
**11.01.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - IOLS & C.P.U. - REPLACED WITH DL45 IOLS & C.P.U. RE-FIT. - ORIGINALS USED IN DL36.'.
**22.01.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY,CHECKED OK.'.
**31.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE MODS INSPECTED.'.
**01.02.1990** Service defect: 'A - AUXILLARY MACHINES - FILTER MOD.- OIL/MIST FILTER FITTED TO AIR/FRIDGE.'.
**01.02.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**01.02.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(2),R.3(2). - L.4(2),R.4(5).'.
**01.02.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(4). - L.6(1),R.6(2).'.
**01.02.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(4). - L.2(1),R.2(2).'.
**01.02.1990** Service defect: 'A - ENGINE LINER - BROKEN STUD - NO.9 LINER REPLACED.'.
**16.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL G/CASES FULL.'.
**28.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTOR - SERIES GENERATOR CONTACTOR REPLACED BY CLYDE.'.
**28.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE SYSTEM - 30-CW MODULE PORTION AND C-2-W RELAY PORTION REMOVED AND INSPECTED FOR CONTAMINATION,'.

**28.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE SYSTEM - CLEANED, GREASED AND NEW GASKET KIT FITTED. BRAKE TEST CARRIED OUT. COALESCAR AND FINAL'.
**28.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE SYSTEM - FILTER CHECKED OK. MOISTURE EJECTORS (2) NOT WORKING, CHANGED (PREVIOSLY CHANGED 1/2/90).'.
**09.03.1990** Service defect: 'UN - GENERAL - CRACK IN TOP OF FUEL TANK INSPECTED.'.
**09.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE FROM MAIN RES WELDED AGAIN.'.
**27.04.1990** Service defect: 'TS - ENGINE - OIL PUMP FAILURE - NEW ENGINE INSTALLED.'.
**01.05.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(1&6),5 BAGS(2,3&5),6 BAGS(4).'.
**01.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.3(2) ,R.3(1). - L.4(1) ,R.4(5).'.
**01.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.5(1) ,R.5(4). - L.6(1) ,R.6(3).'.
**01.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(3+),R.1(4). - L.2(1) ,R.2(2).'.
**03.05.1990** Service defect: 'UN - BOGIE - FLANGE LUBRICATORS - WORK TO BE COMPLETED.'.
**08.05.1990** Service defect: 'UN - BOGIE - FLANGE LUBRICATORS - INSTALLED. - COMMISSIONING TEST UNSUCCESSFUL.'.
**08.05.1990** Service defect: 'UN - BOGIE - FLANGE LUBRICATORS - SOLENOID VALVE & PRESSURE SWITCH TO BE - CHANGED.'.
**11.05.1990** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - COMMISSIONING TEST UNSUCCESSFUL. PCB IN CONTROLLER REMOVED (BLOWN FUSE).'.
**11.05.1990** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - COMMISSIONING TESTS AT MILE END ON 12/5 ALSO UNSUCCESSFUL. CONTROLLER REMOVED.'.
**11.05.1990** Service defect: 'SW - OTHER BODY REPAIRS - CRACKED GLASS - O/SIDE WIND/SCREEN & WIPERS REPLACED.'.
**28.05.1990** Service defect: 'SW - ELECTRICAL MISC. MODULES - HASLER TELOC 2000 MODIFIED - EPROM CHANGED ON COMPX BOARD, ANINT BOARD CHANGED.'.
**28.05.1990** Service defect: 'SW - ENGINE - ENGINE RETORQUED A/C NEW ENGINE.'.
**07.06.1990** Service defect: 'UN - BOGIE - FLANGE LUBRICATOR - INSPECTION COMPLETED. LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**18.06.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRICATORS CHECKED.'.
**23.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(4,5&6),OTHERS OK. (TMGL)'.
**06.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 3 BAGS ADDED TO NOS. 4 & 5 GEAR CASES.'.
**16.07.1990** Service defect: 'UN - BOGIE - FLANGE LUBRICATORS - SYSTEM SWITCHED OFF A/C R1 SOLENOID NOT WORKING & L1 LUBE HOSE SPLIT.'.
**21.07.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**21.07.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - D/SIDE NO.1 RADIATOR CHANGED/OUT.'.
**25.07.1990** Service defect: 'SW - BOGIE - BOGIES ROTATED.'.
**30.07.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(5) ,R.3(2). - L.4(2) ,R.4(0).'.
**30.07.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(3) ,R.5(1). 'A'BOGIE DL100. - L.6(6+),R.6(4). 'B'BOGIE DL109.'.
**30.07.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(2+),R.1(0). - L.2(4) ,R.2(0).'.
**05.08.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER - L.2 SANDER PIPE REPAIRED.'.
**22.08.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRICATOR FITTED.'.
**09.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**20.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE PRESSURE BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**24.09.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRICATOR FITTED.'.
**29.09.1990** Service defect: 'UN - ENGINE - OIL LEAK - MICHIANA 'O'RING REPLACED.'.
**04.10.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - WRONG READING - SPEEDO 337109 CHANGED TO CORRECT READING. - (DIDN'T CHANGE OVER AT 400,000)'.
**09.10.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE SYSTEM INSPECTED-SWITCHED OFF.'.
**23.10.1990** Service defect: 'D - BOGIE - REAR STEPS - FITTED,A/C NOT DONE ON BOGIE REVERSAL.'.
**23.10.1990** Service defect: 'D - ENGINE - CRAB PLATE MOD.- COMPLETED.'.
**23.10.1990** Service defect: 'D - OTHER BODY REPAIRS - CAB BUMP STOP MOD.- COMPLETED.'.
**16.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**22.11.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON WHEELS - TO BE PROFILED.'.
**22.11.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC FAULT - FIXED.'.
**06.12.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**06.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIRS - FRIDGE LID,ARM RESTS & O/SIDE MIRROR REPAIRED.'.
**06.03.1991** Service defect: 'UN - OTHER BODY REPAIRS - FUEL TANK REPAIRED,A/C CRACKED.'.
**15.03.1991** Service defect: 'UN - DYNAMIC BRAKE - NO DYNAMIC REPORTED - T19 ON TRANSFORMER NO.1 REPAIRED. - DYNAMIC TESTED OK.'.
**15.03.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - BROKEN LIGHT - O/SIDE DRIVING LIGHT REPLACED. - FRAME WORK STRAIGHTENED.'.
**15.03.1991** Service defect: 'UN - OTHER BODY REPAIRS - EXTINGUISHER - SMALL FIRE EXTINGUISHER REPLACED,A/C MISSING.'.
**15.03.1991** Service defect: 'UN - VIGILANCE - VIGILANCE - OPERATION CHECKED OK.'.
**17.05.1991** Service defect: 'UN - GENERAL - LOCK LIFTER STRAIGHTENED,A/C HIT BULL.'.

**17.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - T P COCK & LEAK REPAIRED.'.
**17.05.1991** Service defect: 'UN - OBS BLIND TO REPAIR.17/5.'.
**03.07.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**10.07.1991** Service defect: 'SW - DYNAMIC BRAKE - MODIFICATION - DYN/BRK FAN VENT MOD.COMPLETED.'.
**10.07.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR - COUPLING RUBBERS RE-NEWED,COMPRESSOR ALIGNED.'.
**10.07.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO/BRAKE - MODIFIED BRK/VALVE INSTALLED.(FRICTION PAD)'.
**19.07.1991** Service defect: 'UN - BOGIE - BRAKE GEAR - D/S NO.1 BRAKE HANGER PIN REPLACED.'.
**19.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - KNUCKLE MISSING - 'A'END KNUCKLE REPLACED.(COAL WAGGON USE)'.
**19.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER PIPE - O/S NO.3 FLEXIBLE SANDER PIPE REPLACED.'.
**19.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO INCORRECT - SPEEDO 543248,TO BE CORRECTED TO 643248.'.
**25.07.1991** Service defect: 'A - GENERAL - OBS SEAT REPLACED.'.
**25.07.1991** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - BOLTS FOR COUPLING PIN RETAINING PLATE 'B'END SUPPLIED & FITTED.'.
**08.10.1991** Service defect: 'UN - BODY REPAIRS - ACCIDENT - COLLISION - REPAIRS COMPLETED.(D/S REAR PANELS & STRUCTURE)'.
**08.10.1991** Service defect: 'UN - BOGIE - 'B'BOGIE - INSTALLED AFTER BEING REPAIRED AT ISLINGTON.'.
**16.10.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK IN DEPOT.'.
**16.10.1991** Service defect: 'UN - GENERAL - FRIDGE REPAIRED.'.
**16.10.1991** Service defect: 'UN - TRACTION MOTOR - NO 4 T/MOTOR CABLES RECONNECTED,A/C INCORRECTLY CONNECTED.'.
**13.11.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED,LOCO OK FOR TRAFFIC.'.
**02.01.1992** Service defect: 'UN - BOGIE - L6 FRONT BRAKE HANGER REPLACED. A/C BENT.'.
**02.01.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - L5 SPRING REPOSITIONED.'.
**15.01.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - RE 7 RESISTOR REPLACED.'.
**15.01.1992** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED,A/C MOTOR SEIZED. IN-88D1NO1.OUT-89D1 NO2.'.
**24.01.1992** Service defect: 'TS - TRACTION MOTOR - NO 1 T/MOTOR FEEDBACK PROBLEMS,TESTED OK ON TRIAL RUN.'.
**08.02.1992** Service defect: 'SW - DYNAMIC BRAKE - D/B FAN REMOVED.NEW HOLES DRILLED,A/C OLD HOLES NOT ALIGNINGD/B FAN REFITTED,BOLTS REWELDED UNTO BODY,LOCO LOAD TESTED'.
**08.02.1992** Service defect: 'SW - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR REPLACED,A/C COMPUTER SHOWING NO SUPER SERIES.'.
**10.02.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - FBL MODULE REPLACED,A/C W/SLIP IN D/B.RE7 F/B RESISTOR REPLACED,A/C WRONG VALVE.'.
**10.02.1992** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL CHANGED,A/C GOV HUNTING.'.
**10.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE REPAIRED,A/C HOLE IN DRIVERS SIDE MAIN RES.'.
**21.02.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK.TURBO OIL FILTER GASKET REPLACED OK.'.
**05.03.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - A/C SUSPECT LEAK,TURBO OIL FILTER HEAD REMOVEDAND NEW GASKETFITTED,ALSO GASKET FITTED TO PIPE.LOAD TESTED OK.'.
**05.03.1992** Service defect: 'UN - GENERAL - SAFETY VALVE REPLACED ON COMPRESSOR OK.'.
**17.03.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS REPAIRED.-LEAK TESTED OK.'.
**17.03.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WASHERS REPAIRED.'.
**05.05.1992** Service defect: 'A - ELECTRICAL MISC. MODULES - IOL2 MODULE REPLACED.OK.'.
**05.05.1992** Service defect: 'A - ENGINE - OIL LEAK REPAIRED.OK.'.
**05.05.1992** Service defect: 'A - LOCO A/COND.BRUSHES TO BE REPLACED.'.
**15.05.1992** Service defect: 'UN - GENERAL - D/SIDE SEAT REPAIRED.'.
**15.05.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL SENDER REPLACED,A/C OIL LEAK.LOCO LOAD TESTED OK.'.
**22.05.1992** Service defect: 'SW - BOGIE - NEW BOGIES FITTED,A/C CONDEMNED WHEELS.BOGIE OUT.DL-100,T/M'88K1NO2,88D1NO1,88E1NO9.BOGIE-DL109,T/M'S- 88K1NO1,88J1NO4,'.
**02.06.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HASLER DATA CASSETTE REPLACED & ARCHIVE BATTERY.'.
**24.07.1992** Service defect: 'B - ALTERNATOR - ALTERNATOR WASHED OUT.'.
**24.07.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL SEPERATER FLEXI-JOINT REPLACED.'.
**24.07.1992** Service defect: 'B - TRACTION MOTOR - NO.6 T/M WASHED OUT.A/C DIRTY.'.
**24.08.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BATTERY CHARGING AMMETER CHANGED A/C FLUCTUATING.'.
**08.10.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - 3 SAND HOSES REPLACED.'.
**08.10.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE HOSE 'A'END REPLACED.MAIN RES HOSE 'B'END REPLACED. HOLE IN MAIN RES PIPE WELDED UP.'.
**08.10.1992** Service defect: 'A - TRACTION MOTOR - BRUSH HOLDER IN NO 5 T/MOTOR REPLACED,A/C SPRING CELL BURNT'.
**08.10.1992** Service defect: 'A - MIDDLE RADIATOR TO CHANGE,A/C WATER LEAK.8/10.'.
**12.11.1992** Service defect: 'UN - ENGINE

TURBOCHARGER/SUPERCHARGER - TURBO REMOVED FOR CAMSHAFT COUNTERWEIGHT INSPECTION. TURBO REPLACED. LOAD TESTED OK. LR

**12.01.1993** Service defect: 'D - AIR CONDITIONING - AIR COND.BRUSHES REPLACED OK.'.

**12.01.1993** Service defect: 'D - ENGINE - OIL LEAK REPAIRED ,BY FITTING NEW MOD.OIL PUMP.'.

**12.01.1993** Service defect: 'D - GENERAL - REPLACED HOT PLATE.TEMP.SENDER REPLACED WITH DRIVERS READOUT.'.

**12.01.1993** Service defect: 'D - MECHANICAL EQUIPMENT - 'B'END COUPLER REPAIRED.'.

**26.02.1993** Service defect: 'SW - GENERAL - LOCO WASHED FOR BOGIE ROTATION MONDAY, SENT INTO TRAFFIC.'.

**03.03.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED. DIRECTION TESTED OK. SPEEDO OK.'.

**03.03.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT AUTOMATIC MAIN RESERVOIR DRAIN REPLACED, A/C NOT WORKING.'.

**03.03.1993** Service defect: 'SW - TRACTION MOTOR - NO 5 T/MOTOR NOSE SUSPENSION BRUSH REPLACED.'.

**03.04.1993** Service defect: 'A - CONTACTOR INTERLOCKS - FCF3B NOT WORKING - COIL AND INTERLOCK REPLACED A/C NO FAST SPEED.'.

**03.04.1993** Service defect: 'A - COOLING SYSTEM RADIATOR - LEAKING RADIATORS - MECHANICALLY BONDED RADIATORS EX DL45 FITTED.'.

**03.04.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - ENGINE PRIME SWITCH REPAIRED.'.

**03.04.1993** Service defect: 'A - TRACTION MOTOR - DAMAGED COMMUTATOR - NO2 T/M COMM CLEANED UP A/C BALLAST DAMAGE.'.

**31.05.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO HIGH SPEED FANS ON 1 AND 3. FCF1B AND FCF 3B HAD OPEN PICK UP COILS. PROBLEM REPAIRED.'.

**24.06.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - SGC CONTACTOR REPLACED & TESTED OK.'.

**24.06.1993** Service defect: 'B - GENERAL - L/TESTED 2970 HP. LR 100

**23.08.1993** Service defect: 'TS - AUXILLARY MACHINES - T/M BLOWER FAN ARM LINKAGE REPLACED.'.

**23.08.1993** Service defect: 'TS - BOGIE - REAR SHOCK ABSORBER REPLACED. SPRINGS CHECKED OK. A/C ROUGHRIDING REPORTED.'.

**23.08.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - RE7 RESISTOR REPLACED.'.

**23.08.1993** Service defect: 'TS - ENGINE - ENGINE CHECKED FOR INTERNAL WATER LEAKS. ENGINE INSPECTION CHECKED OK.'.

**23.08.1993** Service defect: 'TS - MECHANICAL EQUIPMENT - ENGINE PROTECTION DEVICE REPLACED.'.

**23.08.1993** Service defect: 'TS - OTHER BODY REPAIRS - CAB SUSPENSION CHECKED OK A/C ROUGH RIDING REPORTED.'.

**23.08.1993** Service defect: 'TS - TRACTION MOTOR - THE 12 BRUSHES IN NO.4 WERE CHANGED A/C FRAYED BRUSHES AND CRACKED BRUSHES PROBABLY DUE TO BLOWER SHUTTER NOT WORKING.'.

**23.08.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - ALL TRACTION MOTOR BRUSHES CHECKED OK EXCEPT T/M NO.4 WHICH HAD 12 BRUSHES CHANGED IN Q/FIX PRIOR TO ENTERING MAIN SHOP.'.

**09.09.1993** Service defect: 'A - EXHAUST - 2 & 8 EXHAUST GASKETS REPLACED, A/C BLOWN.'.

**09.09.1993** Service defect: 'A - GENERAL - DRIVERS SIDE WASHER REPLACED, WIPER BLADES REPLACED.'.

**09.09.1993** Service defect: 'A - R1 + R3 PEDESTAL LINERS TO MONITOR. L2 SPRING'.

**09.09.1993** Service defect: 'A - BROKEN. 'B'BOGIE SANDER COCK LEAKING,NIL STOCK.'.

**01.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - OBSERVERS FLURO INVERTER REPLACED AND FLURO TUBE. BATTERY AMMETER REPLACED A/C SHOWING CONTINUAL DISCHARGE.'.

**01.10.1993** Service defect: 'UN - GENERAL - DRIVERS SEAT REPLACED A/C NO F/WARD OR B/WARD MOVEMENT. OBS. BLIND REPLACED.'.

**08.11.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED.'.

**08.11.1993** Service defect: 'UN - ENGINE ROOM - ENGINE ROOM PARTITION REPAIRED, A/C CRACKED.'.

**08.11.1993** Service defect: 'UN - FUEL SYSTEM - FUEL TANK - RETENTION TANK CHECKED OK.'.

**08.11.1993** Service defect: 'UN - GENERAL - OBS/SIDE BLIND REPLACED.'.

**07.12.1993** Service defect: 'C - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR REPLACED, A/C REMOVED FOR BL 29, TESTED OK.'.

**07.12.1993** Service defect: 'C - GENERAL - VALVE REPLACED, A/C TOILET NOT FLUSHING.'.

**07.12.1993** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - BOTH COMPRESSOR LOW PRESSURE UNLOADERS REPAIRED, A/C SEIZED.'.

**07.12.1993** Service defect: 'C - MECHANICAL MAINTENANCE - SOUND WARNING - FRONT LOW NOTE HORN REPAIRED.'.

**07.12.1993** Service defect: 'C - OTHER BODY REPAIRS - RUST REMOVED FROM SLIDING WINDOWS. RUST CUT OUT AND NEW STEEL WELDED IN PLACE. WINDOWS REPLACED AND SEALED.'.

**05.01.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO SENSOR REPLACED, A/C SPEEDO U/S.'.

**17.01.1994** Service defect: 'UN - BLOCKED FILTERS - AIR INTAKE FILTER REPLACED.'.

**17.01.1994** Service defect: 'UN - BOGIE - ALL SHOCKERS CHECKED OK. L1 AXLE BOX THRUST RUBBER REPLACEDTRI-MOUNT SEALS REPLACED.'.

**17.01.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - OPTIC SENSOR REPLACED. EX EL55.'.

**17.01.1994** Service defect: 'UN - GENERAL - OBSERVERS SIDE UNCOUPLER ROD REPLACED.FRONT.'.

**01.02.1994** Service defect: 'UN - BOGIE - 'B'END SHOCK ABSORBER REPLACED. LOCO LOAD TESTED TO 92

**01.02.1994** Service defect: 'UN - ENGINE - RACKS AND INJECTOR HEIGHTS CHECKED OK.'.

**01.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS WINDSCREEN REPLACED, A/C CHIPPED.'.

**21.02.1994** Service defect: 'A - BOGIE - R1 AND R6 PEDESTAL LINERS CHANGED, A/C CRACKED. L6 AXLE BOX

SNUBBER REPLACED, A/C MISSING.'.

**21.02.1994** Service defect: 'A - ENGINE - ASPIRATOR TUBE (COPPER PIPE) REPAIRED, A/C WEARING AROUND BRACKET.'.

**21.02.1994** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO 1 RAD FAN REPLACED EX DL45, FUSES REPLACED.'.

**15.03.1994** Service defect: 'UN - GENERAL - MAIN RES. BRACKETS REPAIRED.'.

**17.05.1994** Service defect: 'B - COOLING SYSTEM WATER PUMP - LHS WATER PUMP REPLACED. RHS WATER PUMP REPLACED. LOAD TESTED 2800H.P.'.

**17.05.1994** Service defect: 'B - RADIATOR/PRESSURISING FAN - NO 3 RAD FAN FAST SPEED DIRECTION CORRECTED, A/C GOING WRONGWAY.'.

**17.05.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED.'.

**17.05.1994** Service defect: 'B - BATTERY ROLLERS NEED REPLACING.18/5.'.

**04.06.1994** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - COMPUTER SCREEN FITTED EX DL 47, TESTED OK.'.

**DL 42**

Details: locomotive 'DL 42 J' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.11.1988
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 01.11.1996 | | |
| SW Service Mileage: | 627098 KM | SW Service Date: | 02.05.1996 |
| A Service Mileage: | 830892 KM | A Service Date: | 04.02.1997 |
| B Service Mileage: | 554349 KM | B Service Date: | 05.01.1996 |
| C Service Mileage: | 404515 KM | C Service Date: | 11.07.1995 |
| D Service Mileage: | 262133 KM | D Service Date: | 27.10.1994 |
| F Service Mileage: | 782286 KM | A Service Date: | 01.11.1996 |
| WT Service Mileage: | 920050 KM | WT Service Date: | 17.11.1992 |
| US Service Mileage: | 836345 KM | A Service Date: | 11.02.1997 |

**06.07.1989** Service defect: 'UN - BROKEN PIPE - PIPE REPAIRS - FRONT HOSES & PIPE REPAIRS COMPLETED.'.

**15.07.1989** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,3&4),OTHERS OK.'.

**15.07.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - NO GAUGE LIGHTS - WIRE REPLACED ON RHEOSTAT.'.

**15.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - REAR H/LIGHT SWITCH UTILISED FOR FRONT. - (NEW H/LIGHT SWITCH REQUIRED)'.

**21.07.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**21.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(7),R.3(4). - L.4(2),R.4(4).'.

**21.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(2). - L.6(5),R.6(5). BOGIES REVERSED & TURNED 28/4.'.

**21.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR - L.1(3),R.1(3). - L.2(1),R.2(2).'.

**21.07.1989** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - NO STARTING POWER - LUG ON STA CONTACTOR REPLACED.(BROKEN) NO SANDERS - N608 WIRE ON PD1 CONNECTOR REPAIRED.(BROKEN)'.

**21.07.1989** Service defect: 'A - ELECTRICAL MISCELLANEOUS - BOLT FALLEN OUT - ARC/CHUTE BOLT RE-POSITIONED & FAN CONTACT - CHECKED,NO DAMAGE EVIDENT.'.

**21.07.1989** Service defect: 'A - RADIATOR/PRESSURISING FAN - DIRTY SEGMENTS - DYNAMIC FAN COMM.SEGMENTS CLEANED/UP. (DYNAMIC FAN)'.

**26.07.1989** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - EN&ED PLUGS REVERSED & FAULT RECTIFIED.'.

**26.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - H/LIGHT SWITCH REPLACED.'.

**26.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - MOISTURE IN UNIT - SENSOR UNIT FROM DL44 PULSE GENERATOR - INSTALLED A/C LOCO REQUIRED FOR TRAFFIC.'.

**25.08.1989** Service defect: 'TW - LUBRICATING SYSTEM - GEAR CASES TOPPED UP.NO 1 & 2(4BAGS),NO 3 & 4(3BAGS),NO 5&6 (NIL).'.

**29.08.1989** Service defect: 'UN - DYNAMIC BRAKE - CONTACTORS CHECKED OK,A/C D/BRAKE PROBLEMS.'.

**29.08.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - D/S HEATER REPAIRED A/C ELECT CONNECTION BLOWN OFF.'.

**29.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE TO AIR GAUGE REPAIRED A/C BURNT PLASTIC PIPE,CAUSED BY MARKER GLOBE.'.

**04.09.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO.8.HEAD REPLACED A/C SPINNING VALVE.ALL VALVE BRIDGES CHANGED & SET.'.

**28.09.1989** Service defect: 'SW - ENGINE - TOP DECK INSPECTION - VISUAL INSPECTION OF VALVE COLLETS & - LASH/ADJUSTERS COMPLETED.'.

**03.10.1989** Service defect: 'UN - BOGIE - EXCESS TRAVEL - BRAKES ADJUSTED.'.

**03.10.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLAT WHEEL INSPECTION - WHEELS CHECKED OK.(FLATS SMALL) - (FLAT DIAMETER SIZE OF 10 CENT PIECE'.

**10.10.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS BOOKED FOR FLATS.CHECKED,SLIGHT FLATS,OK TO RUN.'.

**10.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END AUTO COUPLER LIFTING GEAR STRAIGHTENED.'.

**13.10.1989** Service defect: 'C - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**13.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - - L.3 (6),R.3 (4). - L.4 (3),R.4 (8).'.
**13.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - - L.5 (2),R.5 (2). - L.6 (4).R.6 (5). TO BE PROFILED.'.
**13.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1 (5),R.1 (8+). - L.2 (2),R.2 (5).'.
**13.10.1989** Service defect: 'C - CONTACTOR MISCELLANEOUS - CONTACTOR - S.G.C.CONTACTOR REMOVED & USED IN DL49.'.
**23.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DATA LOGGER - RE-SET A/C WHEEL PROFILE.'.
**23.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HASLER MOD.- EPROM CHANGED ON COMPX BOARD. - ANINT BOARD CHANGED.'.
**23.11.1989** Service defect: 'UN - ENGINE - EQUIPTMENT - INSTALLED ON LOCO AFTER RETURN FROM BATHURST.'.
**06.12.1989** Service defect: 'UN - AUXILLARY MACHINES - FRIDGE FAULT -'.
**06.12.1989** Service defect: 'UN - DYNAMIC BRAKE - HIGH CURRENT - ROMPAK REPLACED AS BELOW.'.
**06.12.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - ROMPAK - LOGIC + EXCITATION ROMPAKS CHANGED/OUT.'.
**08.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**11.12.1989** Service defect: 'UN - NO FAULT FOUND - - OPERATION NOT FAULTED.'.
**11.12.1989** Service defect: 'UN - NO FAULT FOUND - AIR BRAKE - LOCO CHECKED IN DEPOT.(NOT FAULTED) - LOCO COUPLED TO 12 WAGONS FOR LEAKAGE TEST.'.
**13.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO AUTO/BRK ON LOCO - 30/CW VALVE REPLACED. - (STRAINER FILTER BLOCKED)'.
**22.12.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - VALVE BLOWING - M/RESERVOIR SAFETY VALVE ADJUSTED.'.
**02.01.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING COOLING WATER - D/SIDE NO.3 RADIATOR REPLACED.'.
**17.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(4),R.3(0). - L.4(4),R.4(2).'.
**17.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(3),R.5(2). - L.6(3),R.6(0).'.
**17.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(3),R.1(0). - L.2(5),R.2(0).'.
**17.01.1990** Service defect: 'A - DYNAMIC BRAKE - DYNAMIC FAULT - IOL.6 REPLACED.(MB FAILED TO TRANSFER)'.
**17.01.1990** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - HEAD/LIGHT SWITCH REPLACED.'.
**17.01.1990** Service defect: 'A - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES - NEW SET INSTALLED.'.
**29.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - NO.1 G/CASE FULL,3 BAGS ADDED TO OTHERS. (TMGL)'.
**12.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**20.02.1990** Service defect: 'SW - RADIO REPAIR - MODIFIED CO-AXIAL FEED TO ANTENNA. VHF RADIO REPLACED.'.
**10.04.1990** Service defect: 'B - TO BE PROFILED A/C L.2 FLANGE (9). (10/4)'.
**11.04.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - L.2 FLANGE (9) - FULL PROFILE COMPLETED.'.
**05.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(2),5 BAGS(5),OTHERS OK.'.
**05.05.1990** Service defect: 'TW - BROKEN PIPE - BROKEN PIPE - MAIN/RES.PIPE RE-WELDED.(SPLIT)'.
**05.05.1990** Service defect: 'TW - VIGILANCE - FAULTY BUTTON - O/SIDE VIGILANCE BUTTON REPAIRED.'.
**10.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BOOKED FOR CRACK IN MAIN RES PIPE.CHECKED OK IN DEPOT.'.
**25.05.1990** Service defect: 'TS - COOLING SYSTEM RADIATOR - MODIFICATION - RADIATOR MOD.COMPLETED.'.
**25.05.1990** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR LEAK - O/SIDE NO. 1 RADIATOR REPLACED.'.
**25.05.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - AUX/GENERATOR FAILURE.(NEW UNIT FITTED) - HOUSING RE-WELDED ETC.'.
**25.05.1990** Service defect: 'TS - LUBRICATING SYSTEM - OIL PUMP - CHANGED/OUT.'.
**29.05.1990** Service defect: 'UN - OTHER BODY REPAIRS - ROUGH/RIDING - CAB RE-SHIMMED TO 87MM.'.
**29.05.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT -'.
**08.06.1990** Service defect: 'UN - BOGIE - BOOKED FOR ROUGH RIDING OVER 90KPH.VISUAL INSPECTION OK.'.
**10.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**03.07.1990** Service defect: 'A - AUXILLARY MACHINES - TURBO LUBE PUMP REPLACED A/C BEARINGS NOISY.'.
**03.07.1990** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - TURBO LUBE PUMP WIRING REPAIRED A/C SHORTED.'.
**14.07.1990** Service defect: 'UN - BOGIE - BOGIES REVERSED.'.
**28.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(4,5&6),OTHERS OK. (TMGL)'.
**03.08.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS - CLEARED & TESTED.'.
**03.08.1990** Service defect: 'UN - NO FAULT FOUND - WHEEL/SLIP - LOCO CHECKED IN DEPOT,NOT FAULTED.'.
**11.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE - AIR SYSTEM PURGED - BRAKE VALVES CHANGED. * COULD NOT RE-CLAIM AIR AFTER EMERGENCY BRAKE USED *'.
**25.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(4,5&6),1,2&3 FULL. (TMGL)'.
**29.08.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LAMP HOLDER REPAIRED.'.
**29.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**06.09.1990** Service defect: 'UN - MECHANICAL

MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY,RETURNED TO PT AUGUSTA FOR REPAIRS.'.

**07.09.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK -'.

**07.09.1990** Service defect: 'SW - NO FAULT FOUND - SPEEDO FAULT - CHECKED IN DEPOT,NOT FAULTED.'.

**16.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**03.10.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - O/SIDE NO.2 RADIATOR REPLACED.'.

**03.10.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN PINS U/S - NO.2 RAD/FAN PLUG BASE REPLACED.'.

**19.10.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE ON MAIN DISCHARGE PIPE FROM COMPRESSOR REPLACED A/C BROKEN OFF AT THREAD DUE TO VIBRATION.'.

**29.10.1990** Service defect: 'UN - AUXILLARY MACHINES - CRACKED HOUSING - AUX/GEN HOUSING REPAIRED.'.

**29.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO U/S - OPTICAL SENSOR FITTED.(EX.DL48)'.

**29.10.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB BUMP STOP MOD.- COMPLETED. STEP DAMAGE - O/SIDE REAR STEP STRAIGHTENED.'.

**29.10.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD.FAN - NO.1 RAD.FAN INSTALLED.(EX.DL48)'.

**03.11.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - ALL LEVELS CHECKED OK.'.

**03.11.1990** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE - SAFETY VALVE ON COMPRESSOR REPLACED. - (SAFETY VALVE BROKEN AT BASE)'.

**10.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**10.12.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BLOWN VALVE - COMPRESSOR SAFETY VALVE REPLACED.'.

**12.12.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE CHECK - COMPLETED.(EXCESS VIBES SHEARING VALVE)'.

**29.12.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**29.12.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE - COMPRESSOR SAFETY VALVE REPAIRED.'.

**29.12.1990** Service defect: 'UN - NO FAULT FOUND - C/BREAKER FAULT - LIGHTING CIRCUIT CHECKED NOT FAULTED.'.

**29.12.1990** Service defect: 'UN - TOILET FLUSH FAULTY 29/12/90'.

**11.01.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - MODULE NO1 REPLACED BY NO7.A/C ENGINE WOULD NOT START.19/2'.

**19.01.1991** Service defect: 'UN - ENGINE WATER LEAK - BRASS THERMOMETER WELL CHANGED A/C LEAKING.'.

**14.02.1991** Service defect: 'UN - DYNAMIC BRAKE - MODIFICATION - DYNAMIC FAN DUCTING MOD.COMPLETED.'.

**14.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - NOISY COUPLING - NUT ON COMPRESSOR DRIVE TIGHTENED.'.

**06.03.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SHEARED VALVE - COMPRESSOR SAFETY VALVE REPLACED.'.

**13.03.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - PIPE BROKEN - COMPRESSOR UNLOADER PIPE REPAIRED. SAFETY VALVE - REPAIRED.'.

**20.03.1991** Service defect: 'UN - BOGIE - EXCESS TRAVEL - SEVERAL BLOCKS REPLACED & ADJ.COMPLETED.'.

**20.03.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - VALVE BLOWING - COMPRESSOR SAFETY VALVE REPLACED.'.

**16.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR DRIVE COUPLING REPLACED,OK.'.

**16.04.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FAN REPLACED.'.

**30.04.1991** Service defect: 'TS - GENERAL - TOILET FLUSH VALVE REPLACED.'.

**30.04.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR COUPLING CHANGED,A/C PITTED & WORN IN BORE.'.

**30.04.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - DRIVERS BRAKE VALVE GASKET REPLACED.'.

**30.04.1991** Service defect: 'TS - SAFETY VALVE REQUIRED FOR COMPRESSOR DISCHARGE'.

**30.04.1991** Service defect: 'TS - PIPE.'.

**08.05.1991** Service defect: 'UN - OTHER BODY REPAIRS - COW/CATCHER - REMOVED/STRAIGHTENED & RE-FITTED. - (EXTENSIVE DAMAGE CAUSED) WORKED TRN.NO.6PS2'.

**30.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDING OPERATION CHECKED OK IN DEPOT.'.

**14.06.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - MODIFICATION - COMPRESSOR MOD & ALIGNMENT COMPLETED.'.

**09.07.1991** Service defect: 'A - ENGINE - PIPE FROM OIL SEPARATOR TO AIR BOX REPLACED.'.

**09.07.1991** Service defect: 'A - AMP METER NOT REPLACED, A/C NIL STOCK MPC.9/7.'.

**06.09.1991** Service defect: 'SW - ALTERNATOR - MODIFICATION - DIODES & FUSES REPLACED.'.

**06.09.1991** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - INSTALLED.'.

**06.09.1991** Service defect: 'SW - EXHAUST - HEAT SHIELDS - RE-WELDED.'.

**06.09.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - MODIFICATION - RADIATOR FAN PIN MOD.COMPLETED.'.

**18.09.1991** Service defect: 'UN - GENERAL - FRIDGE REPAIRS COMPLETED.(SIGMA).'.

**23.09.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRIATOR TO MONITOR.'.

**30.09.1991** Service defect: 'SW - BOGIE - BOGIES ROTATED.LIFTING BLOCKS WELDED IN POSITION.'.

**08.10.1991** Service defect: 'C - AUXILLARY MACHINES - AUX. GEN. GRILL WELDED A/C CRACKED.'.

**08.10.1991** Service defect: 'C - BLOCKED FILTERS - SCAVENGING OIL FILTER TO REPLACE. A/C BLOCKED. LUBE OIL PUMP FILTERS CLEANED.'.

**08.10.1991** Service defect: 'C - MECHANICAL EQUIPMENT - WINDOW WASHERS REPAIRED.'.

**08.10.1991** Service defect: 'C - AMMETER TO CHECK-A/C WILL NOT CENTRE ON ZERO.'.
**11.10.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON TESTED CHECKED, TESTED OK.'.
**11.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATT AMMETER REPLACED,EX DL 50.'.
**08.01.1992** Service defect: 'A - ALTERNATOR - ALT. CABLES CHECKED FOR RUBBING THRU.-FOUND OK.'.
**08.01.1992** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLAT SPOTS ON WHEELS CHECKED OK.'.
**08.01.1992** Service defect: 'A - ELECT. MISC. - GAUGES & INSTRUMENTS - AMMETER CHANGED.-A/C WOULD NOT CENTRE.'.
**08.01.1992** Service defect: 'A - ELECTRICAL MISC. MODULES - DATA LOGGER REMOVED & CHANGED. A/C BPP SPIKING.'.
**20.01.1992** Service defect: 'UN - GENERAL - OBS/SIDE MIRROR REPLACED,A/C BROKEN OFF.'.
**20.01.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - F/SIDE REAR T/PIPE COCK REPLACED,A/C LEAKING.'.
**07.04.1992** Service defect: 'B - BATTERY MAINTENANCE - 1 BATTERY REPLACED,BATTS FILLED WITH WATER.'.
**07.04.1992** Service defect: 'B - ELECT. MISC. - GAUGES & INSTRUMENTS - BC AMMETER REPLACED,A/C OLD ONE U/S.'.
**07.04.1992** Service defect: 'B - STARTER MOTORS TO REPLACE.8/4.'.
**28.04.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - AIR DRYER-ALL SYSTEM COMPONENTS CLEANED. TWIN TOWER TO CHANGE.'.
**05.05.1992** Service defect: 'UN - AIR CONDITIONING - AIR COND. REPLACED.'.
**05.05.1992** Service defect: 'UN - GENERAL - AIR FRIDGE FILTER REPLACED.FRIDGE OK.'.
**05.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - L.H.S.DRYER INLET VALVE CLEANED, PLUG RECONECTED.OK.'.
**13.05.1992** Service defect: 'SW - AIR CONDITIONING - AIR/CON BRUSHES REPLACED.'.
**13.05.1992** Service defect: 'SW - TRACTION MOTOR - T/MOTOR BLOWER GUARD REPAIRED ON AUXILLARY.'.
**03.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE COCK REPLACED.'.
**08.07.1992** Service defect: 'A - ELECTRICAL MISC. MODULES - FBE MODULE REPLACED. LOCO THEN HAD FULL POWER.'.
**08.07.1992** Service defect: 'A - ENGINE - NOS. 3,5,6 TEST COCKS REPLACED.'.
**08.07.1992** Service defect: 'A - FUEL SYSTEM - BARREL UNION ON FUEL TANK TIGHTENED A/C SUCKING AIR.'.
**08.07.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - CHANGED AUTO BRAKE VALVE.JI RELAY.-A1 CHARGING VALVE AND INDEPENDENTRELEASE CHANGED.'.
**08.07.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - D/SIDE REAR BRAKE PIPE HANDLE REPLACED.-AUX. AIR RESEVIOR REPAIRED A/C LEAKING.'.
**08.07.1992** Service defect: 'A - OTHER BODY REPAIRS - TOILET DOOR LATCH REPLACED.-D/SIDE QUARTER VENT TIGHTENED A/C SLIDING IN TRACK.OBSERVERS BLIND REPAIRED A/C NOT'.
**08.07.1992** Service defect: 'A - RADIATOR/PRESSURISING FAN - REPLACED INTERLOCKS ON NO. 2 CONTACTOR.NO.2 FAN..A/C NO.2 FAN NOT WORKING FULL SPEED.'.
**13.07.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - LOCO SENT INTO TRAFFIC. WHEELS INSPECTED OK.'.
**01.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - OPTICAL SENSOR REPLACED A/C NOT WORKING. PART EX DL45.'.
**21.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDPIPE REPAIRED,A/C CRACKED.SANDS CHECKED OK.'.
**21.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES PIPE REMOVED,WELDED & REPLACED,A/C CRACKED.'.
**13.10.1992** Service defect: 'F - CONTACTOR MISCELLANEOUS - FCF2 CONTACTOR COIL & MOVING CONTACTS REPLACED.CONTACTS (STATIONARY) DRESSED & 1 REPLACED.'.
**13.10.1992** Service defect: 'F - GENERAL - OBS BLIND REPAIRED.'.
**13.10.1992** Service defect: 'F - MECHANICAL MAINTENANCE - AIR BRAKE - B/PIPE HOSE D/SIDE 'A'END REPLACED.'.
**19.10.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FCF2 REPLACED, A/C RAD/FAN CONTACTOR COIL BURNT OUT. FANS CHECKED OK.'.
**28.10.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTOR REPLACED, A/C FCF2 COIL BURNT OUT.INTERLOCKS TESTED SEVERAL TIMES, FEEDBACK OK.'.
**27.11.1992** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INSTALLATION COMPLETED. LOCO LOAD TEST OK. 3,000 H.P. L.R. 98
**27.11.1992** Service defect: 'SW - ENGINE WATER LEAK - WATER LEAK ON RADIATOR HEADER TANK REPAIRED.'.
**27.11.1992** Service defect: 'SW - RADIATOR/PRESSURISING FAN - RAD FANS TESTED OK.'.
**23.12.1992** Service defect: 'UN - GENERAL - OBS/SIDE WINDOW FREED UP, LIMITED SLIDE.'.
**23.12.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - 40 T/M BRUSHES CHANGED ON 'A' BOGIE T/M'S.'.
**27.01.1993** Service defect: 'A - BOGIE - SHOCKER RUBBERS REPLACED A/C WORN.'.
**27.01.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 100M COUNTER REPLACED.. INVERTER FOR CAB LIGHT REPLACED.'.
**27.01.1993** Service defect: 'A - GENERAL - AIR FRIDGE FILTERS CHANGED.'.
**27.01.1993** Service defect: 'A - LUBRICATING SYSTEM - MAIN LUBE OIL PUMP CHANGED.'.
**01.03.1993** Service defect: 'SW - AIR CONDITIONING - AIR/CON FILTERS REPLACED.'.
**01.03.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.
**01.03.1993** Service defect: 'SW - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR TRANSCIEVER REPLACED, A/C REMOVED FOR DL43, NIL STOCK.'.

**01.03.1993** Service defect: 'SW - ELECTRICAL MISC. MODULES - ARC MODULE REPLACED, A/C REMOVED FOR DL43,NIL STOCK.'.
**01.03.1993** Service defect: 'SW - EXHAUST - EXHAUST SHROUD REWELDED.'.
**01.03.1993** Service defect: 'SW - FUEL SYSTEM - FUEL TANK REPLACED.'.
**01.03.1993** Service defect: 'SW - LUBRICATING SYSTEM - OIL LEAK AT OIL COOLER REPAIRED - NEW 'O'RINGS & GASKETS. MARMON COUPLING RUBBERS ON WATER PIPES TO OIL COOLER'.
**01.03.1993** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED & NOZZLE REPLACED.'.
**17.03.1993** Service defect: 'UN - FUEL SYSTEM - FUEL TANK DRAINED & FUEL BUNG REPAIRED.'.
**17.03.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED,RADIATOR FAN FUSES INSTALLED. FAN DIRECTION TESTED OK.'.
**22.04.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO LUBE PUMP MOTOR REPLACED,A/C NOISY. LOCO TESTED & TESTED TO 2,930 H.P. 97
**22.04.1993** Service defect: 'TS - ENGINE - NO'S 3 & 9 POWER ASSEMBLYS REPLACED, A/C WATER LEAKS.'.
**22.04.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REPLACED, A/C GEAR TRAIN FAILURE.'.
**30.04.1993** Service defect: 'TS - CONTACTOR MISCELLANEOUS - S.G.C. CONTACTOR REPLACED EX DL 45,TESTED OK.'.
**30.04.1993** Service defect: 'TS - DYNAMIC BRAKE - D/BRAKE BLOWER MOTOR REPLACED, A/C FLASHOVER/EARTH FAULT.'.
**30.04.1993** Service defect: 'TS - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR CHANGED,COMPUTER ARC DOWN LOADED INTO TRS80. LOCO SENTON TRIAL RUN. LOCO OK.'.
**30.04.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - NO 3 T/M BRUSH HOLDER ADJUSTED,CHECKED OK.'.
**13.05.1993** Service defect: 'UN - GENERAL - DRIVERS SIDE SEAT REPLACED.'.
**16.06.1993** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR REPLACED,A/C HUNTING. LOCO LOAD TESTED OK.'.
**10.07.1993** Service defect: 'A - ENGINE WATER LEAK - WATER LEAK AT COOLANT PIPE FITTING TO MIDDLE CYLINDER ON COMPRESSOR REPAIRED.'.
**10.07.1993** Service defect: 'A - GENERAL - FRONT WINDSCREEN BLIND REPLACED.'.
**10.07.1993** Service defect: 'A - LUBRICATING SYSTEM - OIL LEAK AT OIL PRESSURE GAUGE ADJACENT TO GOVERNOR REPAIRED'.
**10.07.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L4 & R6 SANDERS CLEARED,A/C BLOCKED.'.
**10.07.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - NO 2 T/M BRUSHES CHANGED TO 40009199A3 FROM 4009199H2.'.
**14.08.1993** Service defect: 'UN - BOGIE - ROUGH RIDING CHECKED. SHOCKERS AND CAB MOUNTS CHECKED OK. WHEEL SHEET TAKEN.'.
**14.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE PIPE REPAIRS COMPLETED TO INDEPENDENT RELEASE PIPEON 'B'END.'.
**16.09.1993** Service defect: 'UN - EXHAUST - 3 CRACKS IN EXHAUST STACK REPAIRED.'.
**26.09.1993** Service defect: 'UN - BOGIE - R2 BRAKE PIN MISSING - PIN REPLACED AND CHECKED OK'.
**06.10.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - NIOSE HEARD NEAR TURBO ON LOAD TEST. TEST ABORTED AND TURBOCHECKED BY A. WATKINS. TURBO CHECKED OK.'.
**06.10.1993** Service defect: 'C - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO ADJUSTED TO READ CORRECT SPEED.'.
**06.10.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - 24 BRUSHES CHANGED A/C CONDEMNING LIMIT.'.
**14.12.1993** Service defect: 'SW - OTHER BODY REPAIRS - BOTH SLIDING WINDOWS REPAIRED. RUST REMOVED FROM BODY AROUND WINDOW FRAME. BODY WORK PAINTED/CAB BLINDS REPAIRED.'.
**23.12.1993** Service defect: 'A - GENERAL - AUX. GEN COVER WELDED. WELDED D/BRAKE COVER HINGE. BATTERY SLIDES CLEANED AND LUBRICATED.'.
**23.12.1993** Service defect: 'A - OTHER BODY REPAIRS - SERVICE WATER TANK REMOVED AND LEAK REPAIRED. OBS SIDE SLIDING WINDOW REPAIRED A/C RUST.'.
**23.12.1993** Service defect: 'A - WHEELS TO MONITOR. R5 SPRING CRACKED. R3 SNUBBER'.
**23.12.1993** Service defect: 'A - BOX CRACKED.23/12/93.'.
**25.03.1994** Service defect: 'B - COOLING SYSTEM WATER PUMP - WATER PUMP HOSE REPLACED.'.
**25.03.1994** Service defect: 'B - EXHAUST - NO 3 + 4,9 & 10 EXHAUST STACK GASKETS REPLACED.'.
**19.04.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 6 WHEELSET CHANGE COMPLETED.'.
**19.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - FRONT UNCOUPLING RODS REPAIRED, A/C SEIZED.'.
**06.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE ON COMPRESSOR REPLACED.'.
**06.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER AND LIFTING PIN REPAIRS COMPLETED.'.
**12.05.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR PIPE REPAIRS COMPLETED, A/C CRACKED.'.
**26.09.1994** Service defect: 'UN - BOGIE - FLANGE LUBE REPAIRS NOT EFFECTED, A/C LOCO REQUIRED FOR TRAFFIC.'.
**99.99.9999** Service defect: 'TS - CRANKCASE SHUTDOWN.'.

**DL 43**

Details: locomotive 'DL 43 S' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S

**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 02.12.1988
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 15.01.1993 | | |
| SW Service Mileage: | 832245 KM | SW Service Date: | 17.09.1996 |
| A Service Mileage: | 876777 KM | A Service Date: | 16.01.1997 |
| B Service Mileage: | 942762 KM | B Service Date: | 07.11.1996 |
| C Service Mileage: | 573991 KM | C Service Date: | 28.09.1995 |
| D Service Mileage: | 282848 KM | D Service Date: | 19.05.1994 |
| F Service Mileage: | 844130 KM | A Service Date: | 15.01.1993 |
| WT Service Mileage: | 240555 KM | WT Service Date: | 03.03.1994 |
| US Service Mileage: | 872996 KM | A Service Date: | 18.12.1996 |

**02.07.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - FOG/LIGHT FAULT - HALLEGON INSERT REPLACED,LIGHTS TESTED OK.'.
**07.07.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - H.R.JOINT - WIRING ON HEAD/LIGHT CIRCUIT REPAIRED.'.
**07.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPAIRS - O/SIDE SLIDE WINDOW REPAIRED. HANDLE REPAIRS - D/SIDE LOWER DOOR HANDLE REPLACED.'.
**25.07.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR HOLED - O/SIDE NO.1 RADIATOR REPLACED.'.
**29.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**15.08.1989** Service defect: 'SW - BOGIE - SHARP FLANGES - BOTH BOGIES ROTATED A/C SHARP FLANGES.'.
**20.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SLIP RING JUMPER BRIDGE FITTED.'.
**20.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUXILLARY RES DRAIN COCK CLOSED.'.
**07.09.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - 8 NO. BRIDGE FUSES BLOWN IN MAIN ALTERNATOR.3 BRIDGE DIODES & 8 FUSES REPLACED.LOCO LOAD TESTED OK.'.
**08.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK - MICHIANNA TANK WELDED A/C CRACKED. MICHINNA OIL FILTERS REPLACED.'.
**28.10.1989** Service defect: 'TW - BOGIE - NO.4.GEAR CASE BOLT FOR CLAMP REPLACED A/C BROKEN.'.
**28.10.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 5 BAGS OF CRATER ADDED TO GEAR CASE NO'S 1,2,3,&4. 8 BAGS TO NO.5 & 2 BAGS TO NO.6 GEAR CASE.'.
**02.11.1989** Service defect: 'C - BOGIE - NO.5.GEAR CASE REPAIRED A/C CRACKED.'.
**02.11.1989** Service defect: 'C - ENGINE - TEST VALVE BRIDGES FITTED FROM EMD. NOS P1 - P48.'.
**06.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FISHER UNIT REPLACED A/C DID NOT RESPOND TO BUTTON.'.
**22.12.1989** Service defect: 'UN - ENGINE - EQUIP.PLACED ON LOCO AFTER RETURN FROM BATHURST.'.
**02.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - WESTING/HOUSE CHECK -'.
**02.01.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT - ????'.
**18.01.1990** Service defect: 'SW - RE-ROSTERED TO FINISH OFF AUSTRAC MODIFICATION.'.
**18.01.1990** Service defect: 'SW - (22/1)'.
**19.01.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&3),5 BAGS(4,5&6). (TMGL)'.
**19.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(3),R.3(5). - L.4(2),R.4(1).'.
**19.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(0),R.5(0). - L.6(5),R.6(4).'.
**19.01.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(0),R.1(3). - L.2(0),R.2(3).'.
**26.01.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - HEAD/LIGHT SWITCH REPLACED.'.
**26.01.1990** Service defect: 'UN - STARTER MOTOR - NOISY S/MOTOR - BOTH S/MOTORS REMOVED AND CHECKED. ONE S/MOTOR REAR BUSHING REPLACED A/C WORN.'.
**05.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - SEAT BROKEN - O/SIDE SEAT REPLACED.(LAY/BACK FAULTY)'.
**05.02.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT - OPERATION OF RADIO NOT FAULTED.'.
**08.02.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END AUTO COUPLER LEVERS REPLACED.'.
**11.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.(TMGL)'.
**16.02.1990** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - 'B'BOGIE BRK/CYLINDER PIPE D/SIDE REPAIRED.'.
**16.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - MIRROR MISSING - O/SIDE MIRROR REPLACED.'.
**27.02.1990** Service defect: 'UN - BOGIE - GEARCASE REPAIRS - TIGHTENED A/C CLAMPS LOOSE. ALL GEARS INSPECTED OK. LUBRICANT CHECK CARRIED OUT'.
**27.02.1990** Service defect: 'UN - BOGIE - GEARCASE REPAIRS - TOP PORTION PORTION OF NO.5 GEARCASE WELDED A/C CRACKED. OTHER GEARCASES'.
**27.02.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTOR - S.G.C.CONTACTOR REPLACED.'.
**27.02.1990** Service defect: 'UN - LUBRICATING SYSTEM - PED-986 TEST/OIL CANS REMOVED FROM ENGINE COMPARTMENT. OIL TRIAL ON LOCO COMPLETED. OIL REMOVED ON INSTRUCTION.'.
**09.03.1990** Service defect: 'UN - VIGILANCE - F/MANS SIDE VIGILANCE BOOKED FAULTY.CHECKED,UNABLE TO FAULT IN DEPOT.'.
**19.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**19.03.1990** Service defect: 'TW - NO.5 G/CASE TO REPAIR. (REPORT FROM ALS.) (19/3)'.
**21.03.1990** Service defect: 'SW - BOGIE - G/CASE REPAIR - NO.5 G/CASE RE-WELDED.(TEMP.REPAIRED)'.
**21.03.1990** Service defect: 'SW - CONTACTOR MISCELLANEOUS - CONTACTOR - S.G.C.ADJUSTED.'.
**21.03.1990** Service defect: 'SW - MECHANICAL EQUIPMENT

COMPRESSOR - SAFETY VALVE - REPLACED.(SHEARED OFF AT THREAD) (COMPRESSOR)'.

**21.03.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION THROAT PLATE - MODIFIED CHOKE PLATE INSTALLED. - OPERATION CHECKED OK.'.

**21.03.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - MINIMUM REDUCTION TIME - WITH NEW PLATE 10 SECONDS. FULL SERVICE APPLICATION -' ' ' 15 ' .'.

**21.03.1990** Service defect: 'SW - VIGILANCE - VIGILANCE - WIRE ON RAIL SYSTEM SELECTOR SWITCH REPAIRED. - (WIRE WAS BROKEN)'.

**30.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES CREEPING OFF - CONNECTION ON NO.16 PIPE SECURED. - OPERATION CHECKED OK.'.

**05.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS(2,3&4),6 BAGS(1,5&6).'.

**05.04.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - HEAD/LIGHT SWITCH MOD COMPLETED.'.

**05.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK - MICHIANA GASKET REPLACED.(BROKEN)'.

**05.04.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT - ?????'.

**12.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION REPAIRS - O/SIDE PANEL RE-BUILT,HAND/RAILS REP'D. - LIGHT COVER & FOG LIGHTS REPLACED.'.

**20.04.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS EEACH G/CASE.'.

**20.04.1990** Service defect: 'B - VALVE BRIDGE/LASH ADJUSTER - LASH/ADJUSTERS - 2&11 REPLACED.'.

**24.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.

**24.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO RECALIBRATED TO NO1 WHEEL.'.

**24.04.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - L.6 FLANGE (8) - FULL PROFILE COMPLETED.'.

**09.05.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL PUMP - CHANGED/OUT'.

**10.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR FLAT WHEELS.CHECKED OK.'.

**12.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1&4),8 BAGS(5&6),NIL(1&2) (TMGL)'.

**12.05.1990** Service defect: 'TW - OTHER BODY REPAIRS - COW/CATCHER - TEMP.REPAIRED.'.

**17.05.1990** Service defect: 'UN - OTHER BODY REPAIRS - COW/CATHER - D/SIDE FRONT SECTION REPAIRED.'.

**21.05.1990** Service defect: 'TS - NO FAULT FOUND - 2 G/RELAYS REPORTED - T/MOTORS,ALTN.,DIODES,FUSES CHECKED OK'.

**31.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR FLAT WHEELS,CHECKED OK.'.

**31.05.1990** Service defect: 'UN - GENERAL - BOOKED FOR ROUGH RIDING,CHECKED,NO FAULT FOUND.'.

**03.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**17.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**05.07.1990** Service defect: 'SW - BOGIE - BOGIE LUBE - 4 BAGS PLACED IN EACH CASE.'.

**05.07.1990** Service defect: 'SW - DYNAMIC BRAKE - G/R'S IN DYNAMIC. DYN. BRK. FAN REMOVED & COMMUTATOR SKIMMED A/C FLASHOVER.'.

**05.07.1990** Service defect: 'SW - FUEL SYSTEM - FUEL TANK DEGASSED & PATCHED A/C SPLIT.'.

**16.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**20.07.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS(1,3,4&5),6 BAGS(2&6).'.

**20.07.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(1),R.3(3+). - L.4(2),R.4(5).'.

**20.07.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(0),R.5(3). - L.6(2),R.6(3+).'.

**20.07.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(2),R.1(3). - L.2(1),R.2(3).'.

**30.07.1990** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC FAULT -'.

**30.07.1990** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORT -'.

**06.08.1990** Service defect: 'TS - NO FAULT FOUND - - WATER TANK CAP CHANGED A/C SUSPECT.'.

**06.08.1990** Service defect: 'TS - NO FAULT FOUND - OVER/HEATING - BOARD CONNECTIONS OK,DISPLAY ETP SWAPPED WITH - ETP2. LOCO TEST RUN COMPLETED,NOT FAULTED.'.

**13.08.1990** Service defect: 'TS - OVERHEATING - O/HEATING - ADP MODULE SWAPPED.(EX.DL38) - ETP1 REMOVED & PLUGGED OFF.'.

**17.08.1990** Service defect: 'UN - GENERAL - BOOKED FOR FAULTY TOILET FLUSH VALVE.CHECKED OK.'.

**13.09.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP INDICATION - LOCO COUPLED TO CL14 WITH L.T.EARTH. - LOCO CHECKED IN DEPOT NOT FAULTED.'.

**24.09.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - O/SIDE VENT PIPE REPLACED.'.

**26.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - WATER LEAKS IN CAB REPAIRED.'.

**10.10.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FOG LIGHT HALOGEN GLOBES REPLACED,O/S FRONT WHITE LIGHT BATTEN HOLDER REPLACED'.

**19.10.1990** Service defect: 'D - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE.'.

**19.10.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - - L.3(4),R.3(3). - L.4(1),R.4(5).'.

**19.10.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - - L.5(0),R.5(2). - L.6(2),R.6(2).'.

**19.10.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(3),R.1(4). - L.2(2),R.2(4).'.

**29.11.1990** Service defect: 'TS - TRACTION MOTOR LOOSE PINION - LOOSE PINION - NO.6 T/MOTOR REPLACED.'.

**01.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**11.12.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - THROTTLE FAILURE - 'C'CLIPS RE-NEWED ON HANDLE. - OPERATION CHECKED OK.'.

**15.01.1991** Service defect: 'UN - AUXILLARY MACHINES - AIR CONDITIONER HEAD PRESSURE ADJUSTED.'.

**15.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - L3 (8.5) R3 (3) L4 (0 ) R4 (5)'.
**15.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - L5 (2 ) R5 (3) L6 (4.5) R6 (2.5)'.
**15.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL READING L1 (4.5) R1 (3) L2 (6 ) R2 (3)'.
**15.01.1991** Service defect: 'UN - OTHER BODY REPAIRS - FRONT WINDSCREEN REPLACED.'.
**15.01.1991** Service defect: 'UN - WHEELS TO BE PROFILED L3 (8.5)'.
**21.01.1991** Service defect: 'A - BOGIE - LUBE - 6 BAGS (1,2,4,6) 7 BAGS (3,7)'.
**21.01.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - L3 (8.5)R3 (3) L4 (0) R4 (5)'.
**21.01.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - L5 (3) R5 (2) L6 (4) R6 (3) 21/01/1991'.
**21.01.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - WHEEL READING L1 (4) R1 (3) L2 (6) R2 (3)'.
**05.02.1991** Service defect: 'TS - CONTACTOR WELDED - NO POWER - GFD REPLACED.(CONNECTION ON BRIDGE BLOWN/OFF)'.
**11.02.1991** Service defect: 'UN - GENERAL LOSS OF POWER - IOL 1 SWAPPED WITH IOL 7 A/C WONT POWER UP AFTER DYNAMIC *'.
**14.02.1991** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONING CHECKED OKAY IN DEPOT'.
**14.02.1991** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR REPLACED A/C NO SIGNAL'.
**21.02.1991** Service defect: 'UN - AIR CONDITIONING - UNIT NOT COOLING - GLAND NUTS TIGHTENED & UNIT RE-GASSED.'.
**22.04.1991** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - FOG LIGHT - D/SIDE FOG LIGHT REPLACED A/C BROKEN.'.
**22.04.1991** Service defect: 'B - GENERAL - O/SIDE SEAT ARM REST REPLACED.'.
**22.04.1991** Service defect: 'B - RADIATOR/PRESSURISING FAN - NO2 RAD FAN CONDUIT AND COUPLING REPLACED A/C FAILED COUPLING. NO1 RAD FAN FUSES REPLACED A/C BLOWN FAN.'.
**22.04.1991** Service defect: 'B - NO1 RAD FAN TO REPLACE A/C REMOVED DUE TO FAILURE.'.
**22.04.1991** Service defect: 'B - STRAINER IN 30CW MODULE FOR INSTALLATION A/C'.
**22.04.1991** Service defect: 'B - MISSING.'.
**01.05.1991** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - NO 5 WHEELSET SPRINGS RESEATED CORRECTLY.'.
**01.05.1991** Service defect: 'UN - GENERAL - OBS SEAT CHECKED OK,A/C NO HEIGHT ADJUSTMENT.'.
**01.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - STRAINER REPLACED IN DRIVERS BRAKE VALVE.'.
**01.05.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO1 RAD FAN REPLACED,DIRECTION OF NO1 RAD FAN CORRECTED.'.
**04.07.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR ,SCR,R2,R32 & CA32 REPLACED, A/C FAULTY.LOCO TESTS OK.'.
**04.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - CAB SEAL REPLACED.'.
**04.07.1991** Service defect: 'UN - ASPIRATOR DRAIN PIPE TO BE REPAIRED.5/7.'.
**24.07.1991** Service defect: 'A - CONTACTOR MISCELLANEOUS - S.G.C.REPLACED, A/C BURNT CONTACTS.'.
**24.07.1991** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - ANACONDA REPLACED TO TURBO LUBE PUMP, A/C TRIPPING BREAKER AT TIMES.'.
**24.07.1991** Service defect: 'A - GENERAL - OBS BLIND REPAIRED,OBS SEAT REPAIRED.AIR FRIDGE REPAIRED.'.
**26.07.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - SGC CONTACTOR, MAIN COIL & PILOT COIL BOTH REPLACED, A/C TRANSITION & POWER LOSS.LOCO TESTED OK.'.
**09.08.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - S.G.C. CONTACTOR CLEANED & LUBRICATED, A/C SUSPECT COIL. LUBRICATED LATCH ASSEMBLY & PILOT COIL.'.
**12.08.1991** Service defect: 'SW - FUEL TANK REPAIRS REQ'D.12/8.'.
**19.08.1991** Service defect: 'SW - OTHER BODY REPAIRS - FUEL TANK WELDED, A/C CRACKED.'.
**26.08.1991** Service defect: 'UN - GR'S - ALT FUSES BLOWN APPROX 12 + ROUGH RIDING.'.
**26.08.1991** Service defect: 'UN - TO PT AUG FOR DIODE BANK MOD & REPS.26/8.'.
**29.08.1991** Service defect: 'SW - ALTERNATOR - MODIFICATION - FUSES & DIODES REPLACED IN BANKS.'.
**29.08.1991** Service defect: 'SW - DYNAMIC BRAKE - MODIFICATION - DYN/BRAKE FAN VENT MOD.COMPLETED.'.
**29.08.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - MODIFICATION - RADIATOR FAN PINS REPLACED.'.
**16.09.1991** Service defect: 'TS - AUXILLARY MACHINES - SOAK/BACK MOTOR TO FRAME - REPLACED.'.
**16.09.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - FAULTY SET/UP - SGC CONTACTOR REMOVED,SET/UP & REPLACED. - OPERATION CHECKED OK.'.
**16.09.1991** Service defect: 'TS - STARTER MOTOR - STARTER MOTOR TO FRAME - REPLACED. * LOCO FAILED TRAIN NO.3PS6 WITH COMPUTER MODULE FAULT *'.
**21.10.1991** Service defect: 'C - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR COVER PLATE REPLACED.'.
**21.10.1991** Service defect: 'C - SGC ARC TIPS NOT CHANGED,A/C NIL STOCK MPC.21/10.'.
**01.11.1991** Service defect: 'SW - OTHER BODY REPAIRS - CRACKED TANK - TANK DE-GASSED,REWELDED & CHECKED OK.'.
**01.11.1991** Service defect: 'SW - RE-ROSTER FOR FLANGE LUBE INSTALLATION. (1/11)'.
**14.11.1991** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - INSTALLATION COMPLETED.'.
**13.12.1991** Service defect: 'TS - FUEL SYSTEM - FUEL TANK FLUSHED WITH 200L FUEL, TANK REFILLED & CHECKED OK FOR LEAKS.PIPE WORK RECONNECTED.FUEL TANK SIDE HATCHINGS'.
**22.01.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - 3 RADIATOR FAN CONTACTORS REPLACED.'.
**22.01.1992** Service defect: 'A - MOISTURE ELIMINATOR REQUIRED ON 'B'BOGIE LEADING'.

**22.01.1992** Service defect: 'A - SANDER,A/C MISSING.22/1SGC ARC TIPS NOT CHANGED,'.
**22.01.1992** Service defect: 'A - A/C NIL STOCK.22/1.'.
**10.02.1992** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - LOCO REQUIRED FOR TRAFFIC,INSUFFICIENT TIME - FOR REPAIR,ADELAIDE TO REPAIR.'.
**18.02.1992** Service defect: 'SW - AIR CONDITIONING - AIR/CON.REPAIRED.'.
**05.03.1992** Service defect: 'UN - ENGINE LINER - A/C WATER LEAK NO11 POWER ASSEMBLEY REPLACED.'.
**05.03.1992** Service defect: 'UN - GENERAL - DRIVERS SIDE SEAT REPLACED.'.
**10.03.1992** Service defect: 'TS - GENERAL - 'B'VALVE MICRO SWITCH IN CONTROLER CHANGED.'.
**23.04.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL PUMP REPLACED EX WARRENTY FROM EMD IN U.S.A.'.
**15.07.1992** Service defect: 'A - AUXILLARY MACHINES - FUEL PUMP BRUSHES CHANGED A/C CONDEMNING LENGTH.'.
**15.07.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - OBSERVERS SIDE FOG LIGHT REPLACED.'.
**15.07.1992** Service defect: 'A - ARC MODULE FAILED-NIL IN STOCK.15/7/92.'.
**15.07.1992** Service defect: 'A - AIR CON TO CHECK A/C SUSPECT CYLINDER HEAD LEAK.'.
**15.07.1992** Service defect: 'A - 15/7/92.'.
**15.01.1993** Service defect: 'F - ENGINE - ENGINE OVERHAULED DUE TO GEAR TRAIN FAILURE - NEW GEARS,NEW TURBO,OIL/WATER PUMPS OVERHAULED,OTHERWISE GENERAL OVERHAUL'.
**04.02.1993** Service defect: 'TS - ELECTRICAL MISC - RADAR TRANSCEIVER - RPS PLUG PUT BACK IN POWER SUPPLY, RADAR WIRING CHECKED OK, RADAR TEST OK, A/C NO RADAR.'.
**04.02.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - WIRE LOOSE ON COMPRESSOR GOVERNOR, MV TIGHTENED.'.
**15.02.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR TRANSCIEVER (EX DL 42) FITTED STATIC RADAR TEST OK.'.
**15.02.1993** Service defect: 'UN - ENGINE - LOCO SENT ON TRIAL RUN, TESTED OK 3000 H.P. NO HUNTING.'.
**15.02.1993** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR REPLACED WITH MODIFIED,UPGRADED OIL FILLED LOAD REGULATOR TYPE. LOCO SELF LOADED & HUNT CLEARED.'.
**15.02.1993** Service defect: 'UN - Y GASKET ON WATER PIPE TO REPLACE ON SERVICE 15/2'.
**20.02.1993** Service defect: 'A - ELECTRICAL MISC. MODULES - ARC MODULE SWAPPED WITH ONE EX DL42, A/C FAILED.'.
**20.02.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - 2 FUSES REPLACED ON NO 1 FAN, FAN CHECKED, METERED, MEGGEREDCHECKS OK,TESTED OK.'.
**02.04.1993** Service defect: 'B - FUEL SYSTEM - FUEL LEAK REPAIRED.'.
**02.04.1993** Service defect: 'B - GENERAL - HOT PLATE CHANGED,A/C ONE HALF NOT WORKING.'.
**02.04.1993** Service defect: 'B - STARTER MOTOR - STARTER MOTOR CHAMGED.'.
**02.04.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 1 BRUSH HOLDER CHANGED IN NO 2 T/M. 1 CHANGED IN NO 3 T/M.'.
**27.05.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED.'.
**27.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - COWCATCHER REPAIRS COMPLETED.'.
**28.06.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - THROTTLE HANDLE SPRING REPLACED.'.
**28.06.1993** Service defect: 'A - OTHER BODY REPAIRS - DRIVERS SIDE MIRROR REPLACED.'.
**31.07.1993** Service defect: 'UN - BOGIE - 'A'END SHOCKER RUBBERS REPLACED, 'B'END SHOCKER REPLACED, A/C ROUGH RIDING.'.
**31.07.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE OPEN CIRCUIT - FOUND GUARD BELOW MOTOR TO FRAME ONCABLES LEADING INTO D/B MOTOR. CABLES INSULATED & GUARD'.
**10.08.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 2 + 4 WHEELSET SWAP COMPLETED, DIRECTION TESTED OK.'.
**20.08.1993** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - L2 AND R4 AXLE BOX SPRING CARRIERS RE-ALIGNED.'.
**26.08.1993** Service defect: 'UN - COOLING SYSTEM - ENGINE COOLANT CHANGED.'.
**26.08.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN. BRAKE BLOWER FEED BACK RESISTORS CHECKED OK. BLOWER'V'CHECKED OK. GRIDS OK. FBL READINGS OK. NO FAULT FOUND.'.
**16.09.1993** Service defect: 'C - DYNAMIC BRAKE - IOL 6 & 7 SWAPPED, D/B CIRCUIT CHECKED OK. MONITOR TO SEE IFPROBLEM REOCCURS.'.
**16.09.1993** Service defect: 'C - GENERAL - OBS/SIDE SEAT REPAIRED.'.
**16.09.1993** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - 'A'END D/S UNCOUPLING ARM REPAIRED.'.
**16.09.1993** Service defect: 'C - D/B TO MONITOR.16/9.'.
**13.10.1993** Service defect: 'TW - ELECTRICAL MISC. MODULES - FBL MODULE REPLACED A/C GRID BLOWER FAULT ON RESET. NEW MODULE FBL102.'.
**19.11.1993** Service defect: 'TS - ENGINE GOVERNOR - GOVERNOR REPLACED, A/C HUNTING. CHECKED OK. LOAD REG 100
**24.11.1993** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - R34A/B RESISTOR CHANGED. GRID & BLOWER CONNECTIONS CHECKED OK. BLOWER MOTOR VISUAL INSPECTION OK.'.
**29.11.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE FAN CHANGE COMPLETED. LOAD TESTED OK, A/C SUSPECT D/B BLOWER SHORTED.'.
**09.12.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - DYN. EXTENDED RANGE CONTACT BACKING PLATE CRACKED, CAUSING CONTACTS NOT TO MEET CORRECTLY. REPAIRED.'.
**09.12.1993** Service defect: 'A - GENERAL - FRIDGE NOT WORKING - FILTERS CHANGED.'.
**09.12.1993** Service defect: 'A - OTHER BODY REPAIRS - OBS/SIDE WASHERS U/S - NOZZLES REPLACED.'.
**10.12.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE LEAKING OFF AUTO APP - TIGHTENED LOOSE FITTINGS, BRAKES

TESTED OK.'.

**16.12.1993** Service defect: 'UN - DYNAMIC BRAKE - R6 DYN. BRAKE GRID REPLACED A/C LOW OHMS. 404 INSTEAD OF 43.LOAD TESTED LOCO GRID 1A, 2A, AND 3A NOW MORE BALANCED.'.

**22.12.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - FBL101 AND MEM101 MODULE CHANGED A/C LOCO KEPT SHOWING GRID BLOWER SHORTED.'.

**11.01.1994** Service defect: 'UN - ALTERNATOR - FIELD DECAY RESISTOR REPLACED, A/C OPEN CIRCUIT.'.

**19.01.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.4 AND NO.2 WHEEL SETS SWAPPED POSITIONS A/C R4 FLANGE.'.

**19.01.1994** Service defect: 'UN - ENGINE PISTON - NO.5 POWER ASSEMBLY CHANGED, A/C HOLE FOUND IN CROWN OF PISTON & THRUST WASHER AND CARRIER DAMAGED.'.

**27.01.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOCO HUNTING AND RUNNING ROUGH. EXCITATION 'ROM' PACK REPLACED, A/C BROKEN LEAD ON CAPACITOR. 'ROM' PACK EX DL45.'.

**27.01.1994** Service defect: 'TS - GENERAL - LOCO LOAD TESTED OK. 2900 H.P. AND STEADY.'.

**03.02.1994** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - GOVERNOR CHANGED, A/C VALVE U/S - SHORT CIRCUIT INSIDE GOV. GOVERNOR IN - 1472510. GOVERNOR OUT - 2206377. LOCO LOAD'.

**18.02.1994** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 2 WHEEL INSTALLATION COMPLETED.'.

**18.02.1994** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED, A/C OPEN CIRCUIT NEGATIVE END OF WIPE.'.

**18.02.1994** Service defect: 'TS - ELECTRICAL MISC. MODULES - EXCITATION MOTHER BOARD REPLACED, A/C F/B SHORT CIRCUIT. BURNT TRACK. FCS MODULE REPLACED, A/C NO DI8 VOLTS. ADP'.

**08.03.1994** Service defect: 'A - AIR CONDITIONING - AIR CON TESTED OK.'.

**08.03.1994** Service defect: 'A - ENGINE - PEE PIPES FOUND BROKEN, 5 & 11 LINERS AND PISTONS SCORED - CHANGED OUT.'.

**08.03.1994** Service defect: 'A - GENERAL - ENGINE ROOM DOOR REPAIRED.'.

**22.03.1994** Service defect: 'TS - BODY REPAIRS - ACCIDENT - 'A'END LIFTED, A/C BOGIE CENTRE BOOT RE-POSITIONED, A/C DERAILMENT.'.

**18.04.1994** Service defect: 'TS - ENGINE - NO 5 POWER ASSEMBLY CHANGED. LOCO LOAD TESTED 2950 HP.'.

**11.05.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - LOCO TO WTM.'.

**19.05.1994** Service defect: 'D - ELECTRICAL MISCELLANEOUS - M.E.M. MODULE REPLACED.'.

**19.05.1994** Service defect: 'D - ENGINE - NO 5 POWER ASSEMBLY CHANGE COMPLETED.'.

**21.05.1994** Service defect: 'SW - ENGINE - NO 5 POWER ASSEMBLY INSPECTED, CHECKED OUT OK.'.

**99.99.9999** Service defect: 'B - B SCHEDULED SERVICE'.

### DL 44

Details: locomotive 'DL 44 E' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 23.12.1988
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 03.04.1997 | | |
| Last Lift: | 23.12.1992 | | |
| SW Service Mileage: | 88659 KM | SW Service Date: | 21.03.1997 |
| A Service Mileage: | 25506 KM | A Service Date: | 04.12.1996 |
| B Service Mileage: | 77818 KM | B Service Date: | 04.03.1997 |
| C Service Mileage: | 1556352 KM | C Service Date: | 06.10.1995 |
| D Service Mileage: | 1321664 KM | D Service Date: | 01.11.1994 |
| F Service Mileage: | 916542 KM | A Service Date: | 23.12.1992 |
| WT Service Mileage: | 1219472 KM | WT Service Date: | 21.05.1994 |
| US Service Mileage: | 96631 KM | A Service Date: | 03.04.1997 |

**11.07.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - NO POWER - CR30 DIODE REPLACED.(DIODE O.C.C.) - (TRIPPING C/BREAKER)'.

**22.07.1989** Service defect: 'SW - OTHER BODY REPAIRS - SPLIT FUEL TANK - TANK EMPTIED/DE-GASSED/REWELDED/RE-FILLED. - LOCO RELEASED TO TRAFFIC.'.

**02.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - SENSOR SWITCH REPLACED IN PULSE GENERATOR. - (SENSOR UTILISED FOR DL42)'.

**02.08.1989** Service defect: 'UN - OTHER BODY REPAIRS - SPLIT TANK - NEW FUEL TANK INSTALLED.'.

**06.08.1989** Service defect: 'TW - FUEL SYSTEM - D/S FUEL CUT OFF ADJUSTED.'.

**12.08.1989** Service defect: 'TS - ELECTRICAL MISC. MODULES - MODULE CONTROL CIRCUIT BREAKER TRIPPING - POWER SUPPLY MODULE REPLACED.EX DL36 USED.'.

**18.08.1989** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE SHUNT BATTERY CHARGE SHUNT. CAUSED OVERHEATING OF CR30DIODE . REPLACED DIODE & SHUNT TIGHTENED.'.

**01.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - B/P PRESSURE CHECKED 507KPA ,RESET TO 500KPA.'.

**10.09.1989** Service defect: 'TW - BOGIE - - ALL OTHER G/CASES TIGHTENED.'.

**10.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. LOOSE G/CASES - NO.1 G/CASE BOLT REPLACED.'.

**15.09.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO4 TM BAD FLATS.ALL BRUSHES CHANGED.26 BRUSHES CHANGED ON ALL OTHER TM'S A/C PULLED PIGTAILS & SHORT.'.

**15.09.1989** Service defect: 'UN - NO 4.T/M TO MONITOR.'.

**19.09.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,3,4&6),5 BAGS(5).'.

**19.09.1989** Service defect: 'A - OTHER BODY REPAIRS - BROKEN WELD - D/SIDE REAR HAND/RAIL RE-POSITIONED & WELDED.'.
**19.09.1989** Service defect: 'A - OTHER BODY REPAIRS - FUEL CUT/OFF LOW - FLOAT LEVEL ON FUEL CUT/OFF ADJUSTED.'.
**19.09.1989** Service defect: 'A - TRACTION MOTOR - T/MOTOR CHECK - NO.4 T/MOTOR CLEANED/UP.(SLIGHT FLASHING)'.
**16.10.1989** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP IN DYNAMIC - RESISTOR PANEL REPLACED. (F.R.P.RESISTOR BROKEN FROM MOUNTINGPINS)'.
**17.11.1989** Service defect: 'UN - FUEL SYSTEM - SPLIT FUEL TANK - PLATE WELDED ON TANK,CHECKED OK.'.
**27.11.1989** Service defect: 'UN - OTHER BODY REPAIRS - CRACKED WELD - REAR HAND RAILINGS RE-WELDED.(ONE BROKEN D/S) (BOTH ON O/SIDE)'.
**27.11.1989** Service defect: 'UN - RADIO REPAIR - RECEPTION WEAK - RADIO OPERATION CHECKED.'.
**13.12.1989** Service defect: 'C - BOGIE - G/CASE - NO.3 G/CASE WELDED A/C BROKEN.(TOP G/CASE) LUBRICANT CHECK - 3 BAGS(6),4 BAGS(5),5 BAGS(1,2,3&4).'.
**13.12.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - - L.3(1),R.3(4.5). - L.4(3),R.4(3.5).'.
**13.12.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(2.5). - L.6(5),R.6(3.5).'.
**13.12.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(2),R.1(3.5). - L.2(1),R.2(1).'.
**13.12.1989** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - HEAD/LIGHT SWITCH REPLACED.'.
**13.12.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - HASLER MOD. -'EPROM'CHANGED ON COMPX BOARD. -'ANINT'BOARD CHANGED'.
**13.12.1989** Service defect: 'C - ENGINE WATER LEAK - WATER LEAK - NO.10 HEAD REPLACED. - (CRACK ACCROSS ELBOW PORT HOLE)'.
**02.01.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 10 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**02.01.1990** Service defect: 'UN - BOGIE - SPLIT G/CASE - NO.5 G/CASE REPLACED.'.
**08.01.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - PROFILE - COMPLETED A/C FLATS ON NO.5 WHEEL.(H/BRAKE)'.
**09.01.1990** Service defect: 'UN - MAIN RES PIPE TO WELD.TO BE REPAIRED BY BOILER'.
**09.01.1990** Service defect: 'UN - MAKER.'.
**20.02.1990** Service defect: 'UN - GENERAL - REFIT WORK - LOCO RETURNED AFTER REFIT WORK AT BATHURST.'.
**21.02.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - UHF ANTENNA MODS COMPLETED.'.
**21.02.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - IOL2 MODULE REPLACED WITH 88F02764 (REPAIRED EX DL36)'.
**21.02.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO & OBS DESK LIGHTS REPAIRED.'.
**21.02.1990** Service defect: 'UN - GENERAL - DRIVERS SEAT ARM REST REPAIRED.'.
**21.02.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END CONTROL HOSE REPLACED.'.
**27.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - LOSING POWER- DRIVER ADVISED LOSING POWER AND SAFETY CONTROL LIGHT COMING ON. WHEN THROTTLE PUT BACK TO'.
**27.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - LOSING POWER- IDLE LOCO REGAINED POWER. TESTED ON ARRIVAL AT SPENCER JUNCTION, UNABLE TO FAULT.'.
**04.03.1990** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - NO'S 1,2,3,& 6 (2BAGS) CRATER ADDED TO G/CASES. NO'S 4 & 5 (4BAGS) CRATER ADDED TO G/CASES.'.
**09.03.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND FAULT -'.
**09.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO - OPTICAL SENSOR CHANGED A/C WATER IN PULSE GENERATOR.'.
**14.03.1990** Service defect: 'A - AUXILLARY MACHINES - AIR/FRIDGE - WATER/COOLER OUT-LET PIPE REPAIRED BY PLUMBER.'.
**14.03.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**14.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(2),R.3(0). - L.4(4),R.4(2).'.
**14.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(1). - L.6(2),R.6(0).'.
**14.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(5),R.1(2). - L.2(3),R.2(0).'.
**14.03.1990** Service defect: 'A - VALVE BRIDGE/LASH ADJUSTER - VALVE/BRIDGES - REPLACED.(EMD INSTRUCTION)'.
**28.03.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.
**28.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - SHOPPED A/C TOILET - OPERATION CHECKED BY PLUMBER. - NOT FAULTED.'.
**15.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2,3&4),5&6 FULL. (TMGL)'.
**19.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL PUMP - MANIFOLD REMOVED & GEARS CHECKED OK.'.
**19.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION CHOKE PLATE - MODIFIED CHOKE PLATE INSTALLED. - OPERATION CHECKED OK.'.
**19.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MINIMUM REDUCTION TIME - WITH NEW PLATE 8 SECONDS. FULL SERVICE APPLICATION - ' ' ' 14 ' .'.
**19.04.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT - ?????'.
**20.04.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - RELEASED TO TRAFFIC. TO BE ROSTERED IN FOR H/LIGHT MOD.'.
**30.04.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - HEAD/LIGHT MOD COMPLETED.'.
**30.04.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC FAULT - ????'.
**30.04.1990** Service defect: 'UN - STARTER MOTOR - WORN PINION END BUSH - TOP STARTER/MOTOR

REPLACED. - FLY/WHEEL CLEANED/UP.(SLIGHT DAMAGE)'.

**07.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**07.05.1990** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - - L.3(2),R.3(0). - L.4(6),R.4(2).'.

**07.05.1990** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(0). - L.6(3),R.6(0).'.

**07.05.1990** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(6),R.1(2). - L.2(3),R.2(0).'.

**21.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**03.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ??.'.

**15.06.1990** Service defect: 'B - BOGIE - - L.3(2),R.3(0). - L.4(8),R.4(2).'.

**15.06.1990** Service defect: 'B - BOGIE - - L.5(2),R.5(2). - L.6(3),R.6(0). TO BE PROFILED.'.

**15.06.1990** Service defect: 'B - BOGIE - FLANGE WEAR RECORD - L.1(9),R.1(2). - L.2(4),R.2(3).'.

**15.06.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**15.06.1990** Service defect: 'B - COOLING SYSTEM RADIATOR - RADIATOR MOD.- COMPLETED. - HATCH REVERSAL COMPLETED.'.

**21.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.

**27.07.1990** Service defect: 'TS - ALTERNATOR - AR10 FAILURE - UNIT CHANGED/OUT,ALTN INSTALLED. - AUXA SERIAL NO.85D-20.'.

**27.07.1990** Service defect: 'TS - ENGINE - CRACKED BLOCK - BLOCK WELDED AROUND NO.8 ASSEMBLY.'.

**27.07.1990** Service defect: 'TS - STARTER MOTOR - STARTER MOTOR FAILURE - BOTH MOTORS REPLACED. - FLY/WHEEL TEETH DETERIORATED.'.

**13.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**17.08.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC FAULT -'.

**28.08.1990** Service defect: 'UN - GENERAL - TOILET REPAIRED A/C NOT FLUSHING.'.

**01.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**01.09.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - PHOTO ELECTRIC CELL REPLACED. - (PART TAKEN FROM DL46)'.

**15.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**19.09.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1&2),5 BAGS(3,4,5&6). SPRING PACK - D/SIDE NO.5 AXLE/BOX SPRING/PACK RE-LOCATED.'.

**19.09.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(4),R.3(4). - L.4(9.5),R.4(3).'.

**19.09.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(5),R.5(3.5). - L.6(4),R.6(3). (TO BE PROFILED ASAP)'.

**19.09.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(7),R.1(5). - L.2(6),R.2(4.5).'.

**19.09.1990** Service defect: 'A - TO BE PROFILED A/C L.4 FLANGE 9+. (19/9)'.

**20.09.1990** Service defect: 'SW - BRAKES SPEEDO TO ADJUST'.

**26.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - WATER LEAKS IN CAB REPAIRED.'.

**02.10.1990** Service defect: 'UN - ENGINE LINER - LEAK ON LINER JOINT - NO.5 LINER REPLACED.'.

**08.10.1990** Service defect: 'UN - COOLING SYSTEM - RADIATOR LEAK-LOCO CHECKED FOR WATER LOSS,LEAK FOUND ON WATER DRAIN-REPAIRED-NO OTHERS FOUND'.

**18.10.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - MODULE C/BREAKER REPLACED A/C NUISANCE TRIPPING'.

**18.10.1990** Service defect: 'UN - GENERAL - ROUGH CAB BOOKED,INSPECTED,TO BE MONITORED'.

**25.10.1990** Service defect: 'UN - ENGINE - CRAB PLATE MOD.- COMPLETED.'.

**25.10.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB BUMP STOP MOD.- COMPLETED.'.

**11.11.1990** Service defect: 'TS - NO FAULT FOUND - - * NO MENTION OF G/RELAY OPERATION *'.

**11.11.1990** Service defect: 'TS - NO FAULT FOUND - - THROTTLE RETURNED TO IDLE,WHEN ADVANCED POWER - RE-GAINED,NO FURTHER REPORT ON POWER LOSS.'.

**11.11.1990** Service defect: 'TS - NO FAULT FOUND - LOSING POWER - DRIVER REPORTED FROM HESSO LOSING POWER. (6SP1) - C/BREAKERS CHECKED OK,NO FAULT ON DISPLAY.'.

**24.11.1990** Service defect: 'UN - BOGIE - BOGIES ROTATED.'.

**18.12.1990** Service defect: 'D - AIR CONDITIONING - BREAKER TRIPPING - AIR/COND UNIT REPLACED.'.

**18.12.1990** Service defect: 'D - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2&3),6 BAGS(5&6),7 BAGS(6).'.

**18.12.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - - L.3(4),R.3(5). - L.4(7),R.4(4).'.

**18.12.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - - L.5(4),R.5(4). - L.6(6),R.6(7).'.

**18.12.1990** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(3). - L.2(4),R.2(3).'.

**18.12.1990** Service defect: 'D - ELECTRICAL MISC - FUSES/HOLDERS - BLOWN DIODES - 1 NEG.BASE,1 POS.BASE DIODE REPLACED.'.

**29.12.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - BLOWN VALVE - COMPRESSOR SAFETY VALVE REPAIRED.'.

**10.01.1991** Service defect: 'UN - AIR CONDITIONING - COMPRESSOR FLEXIBLE DISCHARGE HOSE REPAIRED UNIT RE-GASSED'.

**10.01.1991** Service defect: 'UN - BOGIE - LUBRICANT CHECK 3 BAGS (1&2), 4 BAGS (4&5), 5 BAGS (3) 7 BAGS (6).'.

**10.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.3(4),R.3(5). - L.4(8),R.4(4).'.

**10.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.5(4),R.5(4). - L.6(5),R.6(7). TO BE PROFILED.'.

**10.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(6),R.1(3). - L.2(4),R.2(3).'.

**10.01.1991** Service defect: 'UN - OTHER BODY REPAIRS - CRACKED FUEL TANK - FUEL TANK DE-GASSED WELDED,TESTED OK'.

**10.01.1991** Service defect: 'UN - TO BE PROFILED A/C L4

FLANGE (8) 10-01-1991'.
**15.01.1991** Service defect: 'SW - AIR CONDITIONING - AIRCONDTIONER UNIT REPLACED.'.
**15.01.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX W.T.M.'.
**01.02.1991** Service defect: 'UN - NO FAULT FOUND - NO POWER AFTER D/BRAKE - NO FAULT FOUND.'.
**18.02.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - SG CONTACTOR LINK REPLACED.'.
**18.02.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - SGC LINK OFF DL 46 REPLACED ON DL 44 A/C BURNT WIRING.'.
**25.02.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - SGC CONTACTOR REPLACED. CHECKED OK.'.
**30.04.1991** Service defect: 'UN - EXHAUST - BROKEN SILENCER - TOP SECTION OF SILENCER RE-WELDED.'.
**30.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - OTHER REPAIRS - COMPLETED AS INSTRUCTED BY O.HOOPER.'.
**09.05.1991** Service defect: 'TS - FUEL SYSTEM - AIR IN SUCTION SIDE OF FUEL SYSTEM CHECKED OK IN DEPOT.'.
**09.05.1991** Service defect: 'TS - GENERAL ACCIDENT - STEPS STRAIGHTENED,SANDS HOSES REALIGNED,LOCO STEAM CLEANED.'.
**17.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SAFETY VALVE CHANGED - OK.'.
**17.05.1991** Service defect: 'UN - OBS VHF MIC TRANS BUTTON STICKS.'.
**20.06.1991** Service defect: 'B - SGC CONTACTOR TO CHANGE.'.
**25.06.1991** Service defect: 'TS - BOGIE - BOGIES CHANGED.IN-DL 111,112. OUT-DL113,110.'.
**25.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - TRANSDUCER REPLACED IN SPEEDO PICK UP,A/C SPEEDO NOT WORKINGCHECKED OK.'.
**01.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED,A/C FLUTUATING OVER 70 KM/H.'.
**17.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO REPLACED,A/C READING ERRATICALLY.'.
**17.07.1991** Service defect: 'UN - D/SIDE SEAT FOR REPAIRS.17/7.'.
**25.07.1991** Service defect: 'UN - ALTERNATOR - SLIP/RING - BRUSHES REPLACED ON SLIP/RINGS. BLOWN FUSE - 1 NO.FUSE REPLACED ON DIODE BANK.(LOWER LEFT)'.
**25.07.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSHES IN NO.1 T/MTR FITTED.(MISSING)'.
**23.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - AXLE BOXES REPLACED RIGHT WAY UP]'.
**23.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - FUEL TANK WELDED, A/C CRACKED.FUEL LINES CONNECTED.'.
**18.09.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - MAGNETIC PICKUP CLEANED & RPM'S CHECKED OK ON COMPUTER,A/C R.P.M. READING ZERO.'.
**18.09.1991** Service defect: 'A - VIGILANCE - VIG BUTTONS REPLACED.'.
**13.11.1991** Service defect: 'UN - FUEL SYSTEM - FUEL SYSTEM CHECKED.'.
**13.11.1991** Service defect: 'UN - GENERAL LOSS OF POWER - ENGINE LOAD TESTED OK,A/C LOSS OF POWER.'.
**13.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVE REPLACED.NO 8 TEST COCK REPLACED.'.
**19.11.1991** Service defect: 'UN - FUEL FILTERS - SPIN ON FILTERS CHANGED.'.
**19.11.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED.'.
**19.11.1991** Service defect: 'UN - GENERAL - WINDOW REPAIRED.'.
**19.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - M.R.AUTO DRAIN CHANGED.'.
**07.01.1992** Service defect: 'TS - BOGIE - FLANGE LUBRICATORS - INSTALLED.'.
**07.01.1992** Service defect: 'TS - COOLING SYSTEM RADIATOR - MODIFICATION - RAD/FAN PIN MOD.COMPLETED.'.
**07.01.1992** Service defect: 'TS - DYNAMIC BRAKE - MODIFICATION - DYNAMIC BRAKE FAN VENT MOD COMPLETED.'.
**07.01.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - DIODES & FUSES REPLACED. (BLOWN DIODES)'.
**09.01.1992** Service defect: 'C - AIR FRIDGE TO REPLACE. A/C BADLY RUSTED DRAIN.'.
**09.01.1992** Service defect: 'C - FRIDGE NOT WORKING.'.
**17.01.1992** Service defect: 'UN - GENERAL - ALL FRIDGE FILTERS REPLACED.'.
**26.02.1992** Service defect: 'UN - GENERAL - LOG BOOK REPAIRS COMPLETED.'.
**26.02.1992** Service defect: 'UN - OBS/SIDE WINDSCREEN TO REMOVE NEXT SERVICE.26/2.'.
**23.03.1992** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - SAFETY VALVE REPAIRED.'.
**23.03.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS REPAIRED.'.
**02.04.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - SGC CONTACTOR CHECKED OK.-INPUTS AND OUTPUTS OK.'.
**02.04.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP. PRESSURE SWITCH ADJUSTED.'.
**10.04.1992** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE REPAIRS CARRIED OUT,A/C LOW IN GREASE,TANK FILLED.'.
**10.04.1992** Service defect: 'A - FUEL SYSTEM INJECTORS - FRONT INJECTORS BLEED & TESTED OK.'.
**13.05.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FC2 CONTACTOR REPAIRED.FANS TESTED & RUN UP OK.'.
**13.05.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO 3 RAD FAN PLUG & SOCKET REPLACED,A/C BURNT.'.
**10.06.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FEED BACK RESISTER REPLACED & TESTED OK.'.
**02.07.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - SGC CHECKED OK ON

SERVICE.DOES NOT NEED REPLACING.'.
**02.07.1992** Service defect: 'B - GENERAL - LOAD TEST OK.98
**02.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMP. AIR INTAKE REPAIRED.'.
**02.07.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 68 T/M BRUSHES REPLACED A/C CONDEMNING LIMIT.'.
**21.07.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - IOL MODULE REPLACED A/C LOCO WOULD NOT START UNLESS PURGE BUTTON PRESSED.'.
**21.07.1992** Service defect: 'UN - INSULATION WORN - SEVERAL CABLES REPAIRED A/C INSULATION WORN THROUGH.'.
**26.07.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - SGC CONTACTOR REPLACED A/C BURNT-OUT COIL.'.
**26.07.1992** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - COMPRESSOR MAGNET VALVE REPLACED A/C COMP. NOT UNLOADING.'.
**26.07.1992** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPAIRED.-WIRED INCORRECTLY.'.
**30.07.1992** Service defect: 'UN - GENERAL - OBSERVERS SEAT REPLACED.'.
**12.09.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK IN DEPOT,R34 RESISTORS CHECKED OK,GRIDS& BLOWER OK.'.
**18.09.1992** Service defect: 'UN - GENERAL - COUPLING LEVERS REPAIRED A/C DAMAGED IN COLLISION WITH BULL.'.
**18.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - M.R PIPE AND COCK REPLACED A/C DAMAGED IN COLLISION WITH BULL.'.
**25.09.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - B1 CONTACTS (REAR) & HOLD DOWN CHANGED, A/C WORN & NOT MAKING GOOD CONTACT.'.
**25.09.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - D/SIDE 'A'END RELEASE PIPE REPAIRED, A/C HOLE.'.
**14.10.1992** Service defect: 'UN - WHEELSLIP - WHEELSLIP IN DYNAMIC, FOUND FAULTY TRANSDUCER,ACT2 CURRENT TRANSDUCER REPLACED. TESTED ON NO1 OK.'.
**16.10.1992** Service defect: 'UN - DYNAMIC BRAKE - W/SLIP IN DYN/BRAKE - RESISTORS CHANGED. R33A & B RESISTORS REPLACED, A/C NOT MATCHED TO R6. LOCO OK ON TRIAL RUN.'.
**23.10.1992** Service defect: 'UN - COOLING SYSTEM - VENT PIPE OK, WATER PIPE REPLACED. COOLANT CHANGED.'.
**23.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES OUTLET PIPE REPAIRED (WELDED), A/C CRACKED.'.
**14.11.1992** Service defect: 'TS - COOLING SYSTEM WATER PUMP - HOSE ON WATER PUMP TO HEADER TANK REPLACED, A/C LEAKING. GASKET REPLACED A/C LEAKING.'.
**14.11.1992** Service defect: 'TS - ENGINE - MOUNTING BRACKETS ON ENGINE AIR FILTER STAND RE-WELDED, A/C BROKEN.'.
**14.11.1992** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REMOVED FOR CAMSHAFT COUNTERWEIGHT INSPECTION.TURBO REPLACED, LOAD TESTED.'.
**14.11.1992** Service defect: 'TS - LUBRICATING SYSTEM - INTERCOOLER REPLACED, A/C LEAKING.'.
**23.12.1992** Service defect: 'F - CONTACTOR MISCELLANEOUS - IOL 2 MODULE REPLACED, A/C SGC CONTACTOR NOT PICKING UP ON TEST.'.
**23.12.1992** Service defect: 'F - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT INDICATOR LIGHT REPLACED, A/C NOT WORKING.'.
**23.12.1992** Service defect: 'F - GENERAL - D/S WINDOW REMOVED - RUSTED METAL GROUND OFF & PAINTED - WINDOW REPOSITIONED & RESEALED OK.'.
**15.01.1993** Service defect: 'SW - BOGIE - BOGIES ROTATED.'.
**15.01.1993** Service defect: 'SW - ELECTRICAL MISC. MODULES - MODULE POWER SUPPLY REPAIRED AND PBL MODULE REPLACED.TESTED OK.'.
**15.01.1993** Service defect: 'SW - FUEL SYSTEM - FUEL TANK REPLACED WITH NEW ONE. SLUDGE TANK DRAIN PIPE REPAIRED.'.
**15.01.1993** Service defect: 'SW - LUBRICATING SYSTEM - OIL PUMP REPAIRED. ENGINE OIL DRAIN MODIFIED.'.
**15.01.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK ON MAIN RES REPAIRED. AIR RESERVOIR TANK FITTED.'.
**15.01.1993** Service defect: 'SW - OTHER BODY REPAIRS - STEPS MANUFACTURED & FITTED.'.
**29.03.1993** Service defect: 'A - BOGIE - FLANGE LUBRICATOR REPAIRED - BROKEN PIPE REPLACED.'.
**29.03.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - FOG LIGHT CIRCUIT BREAKER REPLACED.'.
**29.03.1993** Service defect: 'A - ENGINE - RACKS CHECKED & ADJUSTED,A/C HUNTING.'.
**29.03.1993** Service defect: 'A - ENGINE GOVERNOR - GOVERNOR REPLACED.'.
**29.03.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - ALL RAD FANS INSTALLED EX DL45 & TESTED, 1 FAN SLOW SPEED REVERSED.'.
**25.05.1993** Service defect: 'SW - DYN/BRAKE MOTOR REMOVED & D/B CUT OUT. NEW MOTOR'.
**25.05.1993** Service defect: 'SW - TO INSTALL.25/5.'.
**31.05.1993** Service defect: 'UN - BROKEN PIPE - MAIN RESEVOIR TANK PIPING REWELDED A/C CRACKED. NEW BRACKET FITTED UNDER FRAME.'.
**04.06.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED IN 1,2 & 3 T/M'S,A/C TEST BRUSHES INSTALLED. MORGANITE EG974A Y0262 TEST BRUSHES FITTED.'.
**04.06.1993** Service defect: 'B - DYN BRAKE CUT OUT,A/C DYN INDICATING SHORTS.LOCO'.
**04.06.1993** Service defect: 'B - TO TRAIL.4/6.'.
**12.06.1993** Service defect: 'SW - DYNAMIC BRAKE - DYN/BRAKE MOTOR/FAN REPLACED. R34A FEEDBACK RESISTOR OPEN CIRCUIT,R34A & B REPLACED. TESTED OK. LOCO LOAD TESTED 2900'.
**11.08.1993** Service defect: 'UN - ENGINE - HEAD FRAME BOLTS TIGHTENED.'.
**11.08.1993** Service defect: 'UN - FUEL SYSTEM - COPPER WASHERS ON FUEL PIPE REPLACED. FUEL SIGHT GLASS REPAIRED.'.
**11.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 TEST COCK SEAL

REPLACED.'.
**11.08.1993** Service defect: 'UN - 'B'END TRI-MOUNT RUBBER TO REPLACE NEXT SERVICE.11'.
**11.08.1993** Service defect: 'UN - /8.'.
**24.08.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - @:UGS ON OBSERVERS HEATER REPLACED.'.
**24.08.1993** Service defect: 'A - OTHER BODY REPAIRS - ONE FOG LIGHT TO REPLACE. ON ORDER.'.
**24.08.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - T/M NO.1 TEST BRUSHES BURNT A/C FLASH OVER. REPLACED WITH DE-7000. T/M'S 2 AND 3 HAVE HALF TEST BRUSHES IN THEM.'.
**28.08.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - MICRO SWITCH FOR 'C'VALVE REPLACED, A/C HUNTING - ERRATIC REVS.'.
**28.08.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS - NO FAULT FOUND, T/MOTORS, ALT, D/B FAN, SGC & POWER CONTACTORS INSPECTED, A/C G/R IN POWER.'.
**10.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FOG LIGHTS REPLACED.'.
**10.09.1993** Service defect: 'UN - EXHAUST - EXHAUST CRACKS - CHECKED OK.'.
**10.09.1993** Service defect: 'UN - LUBRICATING SYSTEM - FUEL SIGHT GLASS REPAIRED.'.
**17.11.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - BOTTOM LEFT CONTACTOR (RAD FAN) CHANGED, A/C BLOWN.'.
**17.11.1993** Service defect: 'C - COOLING SYSTEM RADIATOR - RADIATORS INSTALLED, LOCO LOAD TESTED OK, A/C LEAKING.'.
**17.11.1993** Service defect: 'C - ENGINE - NO 5 CAM FOLLOWER ROLLER REPLACED (L/HAND).'.
**17.11.1993** Service defect: 'C - EXHAUST - EXHAUST STACK REPLACED.'.
**17.11.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 'A'END SANDING VALVE REPLACED.'.
**17.11.1993** Service defect: 'C - VIGILANCE - VIGILANCE WARNING LIGHT REPAIRED.'.
**17.11.1993** Service defect: 'C - L/HAND WATER PUMP TO CHANGE. D/SIDE SLIDING WINDOW'.
**17.11.1993** Service defect: 'C - TO REPLACE. 17/11.'.
**06.01.1994** Service defect: 'SW - OTHER BODY REPAIRS - RUST REMOVED FROM FRAME OF SLIDING WINDOWS BOTH SIDES. RUST CUT OUT AND NEW METAL WELDED IN PLACE.'.
**10.02.1994** Service defect: 'A - BOGIE - BOGIES ROTATED. 'B'END TRI-MOUNT RUBBER REPLACED.'.
**10.02.1994** Service defect: 'A - COOLING SYSTEM WATER PUMP - BOTH WATER PUMPS REPLACED.'.
**10.02.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE (MAIN RES) ON COMP REPLACED.'.
**10.02.1994** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO 1 RADIATOR FAN CHANGED EX DL 45, A/C NOISY BEARING.'.
**18.03.1994** Service defect: 'TW - DYNAMIC BRAKE - DYN. BRAKE U/S. WIRES BKA1 BURNT AT RESISTOR 34 'A' &'B' FEED BACK FOR D?BRAKE. WIRES AND RESISTORS REPLACED.'.
**07.04.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - IOL 2 CHANGED, A/C NOT PICKING UP 'D'VALVE.'.
**07.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE ADJUSTED ON TOP COMPRESSOR 925 NPA.'.
**07.04.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO 2 T/MOTOR 9 O'CLOCK BRUSH HOLDER REPLACED.'.
**06.05.1994** Service defect: 'B - BOGIE - L4 AND R6 PEDESTAL LINERS CHANGED, A/C CRACKED.'.
**06.05.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - ARCING IN ELECTRICAL CABINET BETWEEN 'P' CONTACTORS AND MOTOR/BRAKING SWITCHES - COPPER 'DAGS' CLEANED OFF.'.
**06.05.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - NO AUTO BRAKE - MAGNET VALVE CHANGED, CHECKED OK.'.
**06.05.1994** Service defect: 'B - NO 9 & 10 CYLINDERS TO MONITOR A/C LOW COMPRESSION'.
**08.06.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 2 W/SET AXLE BOXES REFITTED AND W/SET INSTALLED. BRAKE GEAR CONNECTED, DIRECTION TESTED OK.'.

### DL 45

Details: locomotive 'DL 45 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 17.03.1989
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 18.04.1997 | | |
| Last Lift: | 05.07.1994 | | |
| SW Service Mileage: | 652334 KM | SW Service Date: | 18.04.1997 |
| A Service Mileage: | 606092 KM | A Service Date: | 16.12.1996 |
| B Service Mileage: | 645090 KM | B Service Date: | 25.03.1997 |
| C Service Mileage: | 205877 KM | C Service Date: | 09.09.1995 |
| D Service Mileage: | 523379 KM | D Service Date: | 13.09.1996 |
| F Service Mileage: | 1000845 KM | A Service Date: | 05.07.1994 |
| WT Service Mileage: | 843808 KM | WT Service Date: | 18.09.1992 |
| US Service Mileage: | 617921 KM | A Service Date: | 13.01.1997 |

**05.07.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 3 BAGS(2,3,5&6),4 BAGS(1&4)'.
**05.07.1989** Service defect: 'A - ENGINE - MODIFICATION - MICHIANA SUPPORT PLATE MODIFICATION COMPLETED'.
**05.07.1989** Service defect: 'A - LUBRICATING SYSTEM - OIL LEAK - OIL/COOLER SUPPORT BRACKET ON MICH/TANK REPAIRED. - (CRACK ON WELD OF SUPPORT BRACKET)'.
**17.07.1989** Service defect: 'UN - GENERAL - OB/SIDE LEFT ARM REST RENEWED.'.

**17.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK - MICHIANNA TANK WELDED A/C CRACK.'.
**24.07.1989** Service defect: 'TS - NO FAULT FOUND - - 'D'VALVE OPERATION & ASSOCIATED TRAIN/LINE - CHECKED NOT FAULTED.'.
**24.07.1989** Service defect: 'TS - NO FAULT FOUND - NO POWER. - WORKED STEEL TRAIN 3260 FROM WHYALLA, (NOTCHES 4-7) - TEST/RUN COMPLETED.'.
**01.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - LOOSE CONNECTION - BATTERY TERMINAL REPAIRED.'.
**01.08.1989** Service defect: 'UN - BOGIE - MODIFICATION - TRI-MOUNT MODIFICATION COMPLETED.'.
**01.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - HASLER UNIT REPLACED & ORIGINAL CARD USED. - (RED LED.ON FACE OF SPEEDO FACE SHOWING)'.
**01.08.1989** Service defect: 'UN - OTHER BODY REPAIRS - VIBRATIONS - CAB MOUNTINGS CHECKED OK.(EXCESS SIDE/SLAP)'.
**14.08.1989** Service defect: 'UN - BOGIE - SHOCK ABSORBER CHECK - BOTH SHOCK ABSORBERS REMOVED AND REPLACED A/C INCORRECTLLY FITTED.'.
**14.08.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - NO HIGH BEAM - HEADLIGHT SWITCH REPLACED A/C FAULTY.'.
**14.08.1989** Service defect: 'UN - GENERAL - TOILET CLEANED AND EMPTIED.'.
**17.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - NO AUX GEN OUTPUT - D18 SLIP RING POLARITY LOOP WIRE REPLACE A/C BURNT. CORRECT GAUGE WIRE FITTED.'.
**11.09.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.
**15.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO JAMMED ON 80 KMH.- HASLER UNIT RESET,UNIT CHECKED OK.'.
**15.09.1989** Service defect: 'UN - NO FAULT FOUND - DYNAMIC FAULT - OPERATION CHECKED & NOT FAULTED IN DEPOT.'.
**15.09.1989** Service defect: 'UN - RADIO REPAIR - MODIFICATION - RADIO MODIFICATION COMPLETED.'.
**22.09.1989** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**22.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.3 (2),R.3 (2). - L.4 (3),R.4 (5).'.
**22.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.5 (2),R.5 (2). - L.6 (4),R.6 (2).'.
**22.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR - L.1 (5),R.1 (5). - L.2 (3),R.2 (2).'.
**27.10.1989** Service defect: 'UN - BOGIE - SHIMMING OF BODY TO BOGIE CLEARANCES COMPLETED. NOSE SUSPENSION WEAR PLATES ON ALL TRACTION MOTORS CHECKED.'.
**05.11.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - 4 BAGS OF CRATER ADDED TO EACH GEAR CASE.'.
**25.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - PULSE GENERATOR EX.DL37 INSTALLED. (WATER IN UNIT) - SPEEDO OPERATION CHECKED OK.'.
**04.12.1989** Service defect: 'SW - ELECTRICAL MISC. MODULES - ROMPAK - LOGIC + EXCITATION ROMPAKS CHANGED/OUT.'.
**04.12.1989** Service defect: 'SW - ENGINE WATER LEAK - WATER LEAK - NO.5 HEAD REPLACED.(CRACKED ACCROSS ELBOW PORT)'.
**14.12.1989** Service defect: 'A - AUXILLARY MACHINES - AIR/FRIDGE - FILTERS ON UNIT CHANGED,OPERATION CHECKED OK.'.
**14.12.1989** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS(1,2,5&6),7 BAGS(3&4). (TMGL)'.
**14.12.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3 (1),R.3(1). - L.4 (3),R.4(6).'.
**14.12.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5 (2),R.5(2). - L.6 (7).R.6(2).'.
**14.12.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(6.5),R.1(6). - L.2 (2),R.2(2).'.
**14.12.1989** Service defect: 'A - ELECTRICAL MISCELLANEOUS - HASLER MOD.-'EPROM'CHANGED ON COMPX BOARD. -'ANINT'BOARD CHANGED'.
**18.12.1989** Service defect: 'UN - BOGIE - BOGIE REPAIR - L.6 BRK/STRAP PIN REPLACED.(WORN ON THREAD) - (SPLIT PIN SHEARED & NUT MISSING)'.
**22.12.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - FAULTY SWITCH - HEAD/LIGHT SWITCH REPLACED.'.
**13.01.1990** Service defect: 'SW - BOGIE - BOGIE REVERSAL - COMPLETED.'.
**13.01.1990** Service defect: 'SW - ELECTRICAL MISC. MODULES - MODULES - IOL & CPU MODULES INSTALLED EX.DL44. DISPLAY - DISPLAY MODULE REPLACED & TESTED OK.'.
**13.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - - (KMS AT CHANGE/OUT 212868) 29/12.'.
**13.01.1990** Service defect: 'SW - OTHER BODY REPAIRS - CRACKED SCREEN - D/SIDE WIND/SCREEN REPLACED. CAB/BODY SEAL - NEW RUBBER SEAL FITTED'.
**18.01.1990** Service defect: 'UN - NO FAULT FOUND - BOOKING ON FLATS - WHEELS CHECKED OK. NO CHANNEL 5 - RADIO CHECKED OK.(TRIED 300KMS FROM TARCOOLA)'.
**22.01.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK - O/SIDE NO.1 RADIATOR REPLACED.'.
**25.01.1990** Service defect: 'UN - BOGIE - - L.3(5),R.3(3). - L.4(2),R.4(1).'.
**25.01.1990** Service defect: 'UN - BOGIE - - L.5(6),R.5(3). FULL PROFILE REQUIRED. - L.6(6),R.6(7). TO BE PROFILED A.S.A.P.'.
**25.01.1990** Service defect: 'UN - BOGIE - FLANGE WEAR RECORD - L.1(2),R.1(8). - L.2(3),R.2(2).'.
**25.01.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - ROMPAK - EXCITATION ROMPAK CHANGED/OUT. (IN 00004) - (ELIMINATES SANDING AT HIGH SPEED) (OUT 00069)'.
**03.02.1990** Service defect: 'UN - FUEL SYSTEM - FUEL IN BY/PASS - FILTERS REPLSCED.'.
**03.02.1990** Service defect: 'UN - NO FAULT FOUND - BOOKING ON FLAT WHEELS - CHECKED OK.'.
**06.02.1990** Service defect: 'WT - BRAKE ADJUST MILE END.

SPEEDO TO RESET.'.

**11.02.1990** Service defect: 'UN - BOGIE - (TMGL) - 3 BAGS(2-6)ADDED IN DEPOT.'.

**11.02.1990** Service defect: 'UN - BOGIE - GEAR INSPECTION - NO.1 GEAR/PINION CHECKED OK.(NOISY) LUBRICANT CHECK - 9 BAGS(1)ADDED AT BOOKALOO.'.

**22.02.1990** Service defect: 'UN - ENGINE - LOW POWER - TURBO/CHARGER REPLACED.(BLADE DAMAGE)'.

**22.02.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTORS - REPLACED.'.

**23.02.1990** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - UHF ANTENNA MODIFICATIONS COMPLETED.'.

**03.03.1990** Service defect: 'UN - DYNAMIC BRAKE BLOWER MOTOR BURNT OUT,PORT AUGUSTA'.

**03.03.1990** Service defect: 'UN - SHIFT FOREMAN ADVISED,LOCO TO DETATCH AT PORT'.

**03.03.1990** Service defect: 'UN - AUGUSTA X7261 DYN BRAKE ISOLATED AND TAGGED'.

**08.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE - DYNAMIC BRAKE FAN MOTOR,SKIMMED ON COMMUTATOR & REPLACED .CHECKED & TESTED OK.'.

**12.03.1990** Service defect: 'C - AIR CONDITIONING - UNIT FAILURE - UNIT EX.DL41 INSTALLED.'.

**12.03.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - - L.3(4),R.3(1). - L.4(3),R.4(4).'.

**12.03.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(4). - L.6(4),R.6(4).'.

**12.03.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(6). - L.2(4),R.2(5).'.

**02.04.1990** Service defect: 'UN - AIR CONDITIONING - C/BREAKER TRIPPING - AIR/COND. C/BREAKER REPLACED.'.

**02.04.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS(2,4&5),4 BAGS(1,3&6). (TMGL)'.

**02.04.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK - O/SIDE MIDDLE RADIATOR REPLACED.'.

**14.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**14.04.1990** Service defect: 'TW - ELECTRICAL MISC. MODULES - ROMPAK - REPLACEMENT COMPLETED & O/SPEED RE-SET 1045 RPM.'.

**14.04.1990** Service defect: 'TW - OTHER BODY REPAIRS - SEAT U/S - O/SIDE SEAT REPLACED.'.

**23.04.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - HEAD/LIGHT MOD.COMPLETED.'.

**29.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**29.04.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - AL02 FAULT - HASLER CASSETTE REPLACED.'.

**02.05.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - IOL 3 & 7 SWAPPED LOCO TESTED OK.'.

**16.05.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 8 TRANSITION DIODES & 2 CURRENT LIMITING FUSES; 3 BRIDGE DIODES & 6 CURRENT'.

**16.05.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - LIMITING FUSES CHANGED A/C FLASHOVER BETWEEN DIODES ON LHS AR11 DIODE BANK.'.

**18.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BOOKED FOR G/RELAYS.HAD BEEN REPAIRED AT PT AUGUSTA.'.

**03.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**08.06.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1,5&6),5 BAGS(2,3&4). (TMGL)'.

**08.06.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(3),R.3(1). - L.4(3),R.4(4).'.

**08.06.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(2). - L.6(3),R.6(4).'.

**08.06.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(7). - L.2(4),R.2(4).'.

**08.06.1990** Service defect: 'A - ENGINE LINER - LINER SPLIT - NO.6 LINER/PISTON & HEAD REPLACED.'.

**14.06.1990** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - M/RES.PIPE RE-WELDED.(PIPE FROM MAIN TANK)'.

**14.06.1990** Service defect: 'UN - OTHER BODY REPAIRS - SPLIT FUEL TANK - TANK DE-GASSED,REWELDED & FILLED. - CHECKED OK.'.

**16.06.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR MOD.- COMPLETED.'.

**27.06.1990** Service defect: 'UN - NO FAULT FOUND - HUNTING - LOCO CHECKED IN DEPOT,NOT FAULTED.'.

**28.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - BOOKED FOR WHEELSLIP,LOSING POWER.SAND BOXES EMPTY.'.

**28.06.1990** Service defect: 'UN - SAND TIMING TO CHECK.'.

**05.07.1990** Service defect: 'SW - BOGIE - BOGIES REVERSED.'.

**09.07.1990** Service defect: 'UN - EXHAUST - EXHAUST SCREEN GASKET REPLACED.'.

**09.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A' END TRIP LEVER REPAIRED A/C BENT.'.

**26.07.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIRS - BLINDS RE-ROLLED,O/SIDE ASH/TRAY REPLACED. - O/SIDE MIRROR REPLACED,O/SIDE ARM/REST REP'D.'.

**26.07.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC FAULT - O/SIDE HAND/PIECE REPLACED.(MIC FAILURE) - AUTRAC OPERATION SHEET INSTALLED.'.

**31.07.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK -2 BAGS(3&5),4 BAGS(6),OTHERS OK.'.

**31.07.1990** Service defect: 'SW - OTHER BODY REPAIRS - CRACKED FUEL TANK - TANK DEGASSED & RE-WELDED,REPAIRED OK.'.

**15.08.1990** Service defect: 'UN - NO FAULT FOUND - DROPPING LOAD - LOCO TEST RUN COMPLETED.(NOT FAULTED)'.

**25.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**12.09.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK -'.

**12.09.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1( ),R.1( ). - L.2( ),R.2( ).'.

**12.09.1990** Service defect: 'B - RADIATOR/PRESSURISING FAN - DYNAMIC FAN FAULTY - RE-BUILT FAN INSTALLED.(EX.DL38 FAN) - (BUS BAR FIELD CONNECTION H.R.JOINTED)'.

**22.09.1990** Service defect: 'UN - BOGIE MAINTENANCE -

WHEELS - FLAT WHEELS - CHECKED OK.'.
**22.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - WIND/SCREEN WIPERS - CORROSION CLEANED/OUT OF FILTER & JETS. - OPERATING OK.'.
**30.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**17.10.1990** Service defect: 'UN - BOGIE - 3 BAGS IN EACH CASE'.
**17.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORN CUT OUT ENROUTE-DRIVERS SIDE HORN CONTROL LEVER REPAIRED,CHECKED OK'.
**03.11.1990** Service defect: 'UN - BOGIE - G/CASE SHIM MOD.- COMPLETED.'.
**03.11.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB BUMP STOP MOD.- COMPLETED. HAND/RAIL MOD. - COMPLETED.'.
**03.11.1990** Service defect: 'UN - STARTER MOTOR - STARTER/MOTOR MOD.- COMPLETED.'.
**20.11.1990** Service defect: 'UN - NO FAULT FOUND - DYNAMIC FAULT - LOCO NOT FAULTED ON TEST RUN.(TRAIN NO.3260)(GRID OPEN) - (CIRCUIT PROTECTION OPERATING)'.
**07.12.1990** Service defect: 'UN - NO FAULT FOUND - DYNAMIC FAULT - OPERATION CHECKED A/C GRID OPEN FAULT.'.
**07.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - STEP DAMAGE - D/SIDE STEP STRAIGHTENED. - (COLLISION WITH ABANNONED CAR)'.
**17.12.1990** Service defect: 'A - ALTERNATOR - ALTN ALIGNMENT - CHECK COMPLETED.'.
**17.12.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS(3&5),6 BAGS(1,2,4&6).'.
**17.12.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(3),R.3(4). - L.4(6),R.4(4).'.
**17.12.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(10),R.5(4). - L.6(6),R.6(5). TO BE PROFILED.'.
**17.12.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(5),R.1(4). - L.2(2),R.2(2).'.
**17.12.1990** Service defect: 'A - TO BE PROFILED A/C L.5 FLANGE (10) (17/12)'.
**23.01.1991** Service defect: 'UN - WHEELSLIP - WHEELSLIP IN DYNAMIC - FBL MODULE REPLACED.'.
**29.01.1991** Service defect: 'SW - DYNAMIC BRAKE SETTING - DYNAMIC BRAKE SETTING CHECKED.*'.
**22.02.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - COMPUTER DISPLAY REPLACED EX DL 39 A/C BENT PINS.'.
**04.03.1991** Service defect: 'UN - BOGIE - 3 BAGS CRATER EACH GEARCASE'.
**11.03.1991** Service defect: 'UN - BOGIE - SEIZED PINS - R.2&L.6 BRAKE PINS REPLACED. SLACK/ADJ. - L.6 SLACK/ADJ.REPAIRED.'.
**11.03.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT -'.
**11.03.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L.4 SANDER - PIPE RE-POSITIONED & CLAMPED.'.
**20.03.1991** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - LARGE FLAT ON NO5 WHEELSET DETECTED- FOR REPROFILE. TO W.T.M20/3.'.
**20.03.1991** Service defect: 'D - 1 RAD FAN MISSING,AWAITING SPARE. MICHIANA,CRACK'.
**20.03.1991** Service defect: 'D - ON TOP BRACKET,FOR WELDING.'.
**26.03.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE REPAIRED,A/C ARC CHUTE FALLEN OFF EXTENDED RANGE CONTACTOR.'.
**04.04.1991** Service defect: 'UN - BOGIE - ROUGH RIDING - LOCO CHECKED OK.'.
**04.04.1991** Service defect: 'UN - DYNAMIC BRAKE - WHEELSLIP IN DYNAMIC - DC1 CONTACTOR REPLACED A/C BURNT TIPSCONTACTOR TAKEN FROM DL42 AND FITTED. LOCO TESTED IN YARD OK'.
**04.04.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO2 RADIATOR FAN REPLACED AND DIRECTION AND SPEED TESTED OK.'.
**15.04.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CIRCUIT BREAKER CHANGED,DYN CHECKED OK.'.
**07.05.1991** Service defect: 'TW - DYNAMIC BRAKE - FBI MODULE REPLACED AND DYNAMIC TESTED OKAY.'.
**07.05.1991** Service defect: 'TW - AUTOMATIC FUEL CUT OFF NOT WORKING.'.
**28.05.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**28.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - AIR FILTER FOR SANDING GEAR 'A'END RHS REPLACED.'.
**04.06.1991** Service defect: 'SW - BOGIE - NOISE IN FRONT BOGIE - 10 BAGS TMGL ADDED TO NO.1 G/CASE. (DRIVE GEARS DRY)'.
**04.06.1991** Service defect: 'SW - DYNAMIC BRAKE - MODIFICATION - DYNAMIC BRAKE FAN VENT MOD.COMPLETED.'.
**04.06.1991** Service defect: 'SW - RE-ROSTERED TO O.H.C. FOR COMPRESSOR DRIVE ALGIN.'.
**04.06.1991** Service defect: 'SW - (4/6)'.
**12.06.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COUPLINGS - COMPRESSOR DRIVE SHAFT COUPLING RUBBERS RENEWED.'.
**14.06.1991** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(1,4&5),5 BAGS(2&3),6 BAGS(6). (TMGL)'.
**14.06.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(1),R.3(3). - L.4(3),R.4(2).'.
**14.06.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(4). - L.6(4),R.6(2).'.
**14.06.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(4). - L.2(3),R.2(4).'.
**14.06.1991** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR ALIGNMENT - COMPLETED.'.
**01.08.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN FAILURE - NEW WINDINGS & ARMATURE REPLACED. - DYNAMIC OPERATION TESTED OK.'.
**21.08.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAKING - D/SIDE NO.1 RADIATOR REPLACED.'.
**12.09.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - OPTICAL SENSOR CHANGED,SPEEDO TESTED & WORKING OK.'.
**12.09.1991** Service defect: 'B - FAN MOTOR PIN TO REPAIR.12/9.SEALING STRIP TO'.
**12.09.1991** Service defect: 'B - REPLACE ON OBS SIDE ENGGINE ROOM DOOR.12/9.'.

**02.10.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RECEPTACLE PINS CHANGED. RADIATOR FAN REPLACED.'.
**09.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - GAUGE REMOVED & BLANKED OFF.'.
**01.11.1991** Service defect: 'SW - NO FAULT FOUND - LOCO LOAD TESTED OK,RECEPTACLE & JUMPER CABLE CHECKED OK,NO FAULTS FOUND.'.
**06.12.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE CHECKED OK.'.
**06.12.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - REPLACED FAULTY 10L MODULE & REPLACED RETAINING SCREW.'.
**13.12.1991** Service defect: 'A - ALTERNATOR - 1 POWER FUSE & 1 TRANS FUSE REPLACED IN ALTERNATER,DIODES CHECKED OK.'.
**13.12.1991** Service defect: 'A - EARTH FAULT MISCELLANEOUS - D/B 1 SOLENOID VALVE REPLACED,A/C EARTH.'.
**13.12.1991** Service defect: 'A - AIR PRESSURE GAUGE BELOW WATER SIGHT GLASS NOT'.
**13.12.1991** Service defect: 'A - WORKING.FUEL CUT OFF TO REPAIR.13/12.'.
**13.01.1992** Service defect: 'UN - BOGIE - BOGIES ROTATED.'.
**13.01.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR TANK REPAIRED.'.
**13.01.1992** Service defect: 'UN - OTHER BODY REPAIRS - FUEL TANK REPAIRS COMPLETED.'.
**23.01.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - D/SIDE INVERTER REPLACED.'.
**06.02.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE TESTED OK IN DEPOT.'.
**06.02.1992** Service defect: 'UN - GENERAL - FRIDGE FILTER REPLACED.'.
**06.02.1992** Service defect: 'UN - GENERAL UNABLE TO LIFT LOAD - LOAD TESTED OK IN DEPOT.'.
**26.02.1992** Service defect: 'UN - MECHANICAL AIR BRAKE REPAIRS - ACCIDENT - CRACK IN MAIN RESERVOIR REPAIRED'.
**26.02.1992** Service defect: 'UN - CRACK IN MAIN RESERVOIR PIPE'.
**02.03.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRK/PIPE BROKEN - M/RES.COCK REPLACED. (LOST ALL AIR)'.
**20.03.1992** Service defect: 'C - COOLING SYSTEM RADIATOR - RADIATORS REPLACED.-CHECKED FOR LEAKS.NONE FOUND. LOAD TESTED FOR 5 MINUTES. OK.'.
**25.03.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HASSLER TIME ADJUSTED BY C.GOLDSMITH.'.
**25.03.1992** Service defect: 'UN - ENGINE GOVERNOR - GOV. SWAPPED WITH DL46 GOV.'.
**25.03.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - AIR FRIDGE REPAIRED BY SIGMA.'.
**21.04.1992** Service defect: 'UN - DYNAMIC BRAKE - R.E.34A RESISTOR REPLACED,A/C OPEN CIRCUIT CAUSING W/SLIP INDYN/BRAKE.FAULT RECTIFIED.'.
**21.04.1992** Service defect: 'UN - GENERAL - DOOR & WINDOW REPAIRS COMPLETED.'.
**11.05.1992** Service defect: 'TS - ENGINE CYLINDER HEADS - NO 9 CYLINDER HEAD REPLACED,A/C BROKEN VALVE.'.
**11.05.1992** Service defect: 'TS - GENERAL - DOOR SEAL IN ENG ROOM REPLACED.'.
**12.06.1992** Service defect: 'A - ENGINE CYLINDER HEADS - NO 11 CYL HEAD REPLACED,A/C CRACKED'.
**12.06.1992** Service defect: 'A - GENERAL - FRIDGE REPAIRED.'.
**17.09.1992** Service defect: 'UN - FUEL SYSTEM - FUEL TANK CHANGED AND BRACKETS REPOSITIONED.'.
**22.09.1992** Service defect: 'SW - ALTERNATOR - LAMPHOLDER IN ALT ROOM REPLACED.'.
**22.09.1992** Service defect: 'SW - ENGINE WATER LEAK - WATER LEAK IN ENGINE ROOM FIXED.'.
**22.09.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO TESTED OK.'.
**22.09.1992** Service defect: 'SW - NO 3 INJECTOR ROLLER TO CHANGE WHEN NEW ONE IS'.
**22.09.1992** Service defect: 'SW - AVAILABLE.22/9.'.
**15.10.1992** Service defect: 'UN - AIR CONDITIONING - AIR CON UNIT REPLACED.'.
**17.12.1992** Service defect: 'B - ALTERNATOR - SLIP RINGS REMOVED, SKIMMED & REPLACED, A/C BADLY DAMAGED DUE TO WEAK SPRINGS ON BRUSHES. ALL BRUSHES RENEWED.'.
**17.12.1992** Service defect: 'B - BOGIE - 'A'END SHOCK REPLACED. 'B' END SHOCK POSITION CORRECTED & NEW RUBBERS FITTED.BOGIE ROTATION COMPLETED A/C WHEEL WEAR.'.
**17.12.1992** Service defect: 'B - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CHANGED A/C OLD TYPE ORIGINALLY IN THERE. NEWOIL FILLED TYPE LOAD REG FITTED.'.
**17.12.1992** Service defect: 'B - FUEL SYSTEM INJECTORS - NO 3 INJECTOR ROLLER REPLACED. CAMSHAFT TO MONITOR.'.
**17.12.1992** Service defect: 'B - NO 3 INJECTOR LOBE ON CAM SHAFT HAS SLIGHT FLAT-'.
**17.12.1992** Service defect: 'B - TO MONITOR.17/12. DYN EXT RANGE DRESSED,TO MONITOR'.
**17.12.1992** Service defect: 'B - 17/12.'.
**20.01.1993** Service defect: 'UN - GENERAL - AIR FRIDGE REPAIRED.AIR SUPPLY WAS BLOCKED .'.
**20.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - UNCOUPLER RODS REPLACED.'.
**20.01.1993** Service defect: 'UN - NO FAULT FOUND - WHEEL SLIP IN DYNAMIC BRAKE TESTED OK.'.
**20.01.1993** Service defect: 'UN - WINDOW REPAIRS STILL TO BE DONE.'.
**25.01.1993** Service defect: 'TS - NO.6 T/M CUT OUT A/C EARTH. LOCAL TRAFFIC ONLY.'.
**25.01.1993** Service defect: 'TS - WINDOW SEALS TO REPLACE.25/1/93.'.
**03.02.1993** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED. DIRECTION TESTED OK. NEW BOGIE NOS- 'A'END DL 119 - 'B'END DL 118. T/M NOS 'A'END - 88H1NO2,'.
**09.02.1993** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - RE-SOLDERED WIRE ON T1 TRANSFORMER TERMINAL # 10 WIRE # CSM 55, A/C DROPPING AMPS.'.
**09.02.1993** Service defect: 'TS - ELECTRICAL MISC - RADAR TRANSCEIVER - TIGHTENED ANGLE MOUNTING BRACKET BOLTS ON RADAR TRANSCEIVER.'.
**22.02.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR REPLACED EX DL42,TEST TRIP CHECKED OPERATION OKAY'.

**24.02.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR FAILED IN SELF TEST. RADAR REPLACED. SELF TESTED OK.'.
**03.03.1993** Service defect: 'UN - GENERAL - FRIDGE REPAIRED BY PLUMBERS.'.
**06.03.1993** Service defect: 'A - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR TRANSCEIVER REPLACED.'.
**06.03.1993** Service defect: 'A - GENERAL - WINDOW WASHERS REPAIRED.'.
**06.03.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - RAD FAN CONTACTOR NO 3 CHANGED.'.
**21.05.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS (MECH BONDED) INSTALLED.'.
**21.05.1993** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP REPAIRED.'.
**21.05.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - COMPUTER POWER SUPPLY INSTALLED.'.
**21.05.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - FBL MODULE REPLACED (REPAIRED MODULE EX DL 45).'.
**21.05.1993** Service defect: 'UN - FUEL SYSTEM - FUEL TANK CHANGED,FUEL FLOATS INSTALLED. SOME MINOR LEAKS & REPAIRS COMPLETED,LOCO LOAD TESTED OK.'.
**21.05.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FAN CONTACTOR REPLACED,FANS TESTED OK.'.
**31.05.1993** Service defect: 'SW - DYNAMIC BRAKE - DYNAMIC EXTENDED RANGE DRESSED TO BE MONITORED.'.
**03.06.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO FILTER GASKET REPLACED A/C LEAKING.'.
**23.06.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - ARC MODULE FITTED.'.
**23.06.1993** Service defect: 'UN - GENERAL - AIR FRIDGE REPAIRED. TOILET REGULATOR REPLACED.'.
**23.06.1993** Service defect: 'UN - LUBRICATING SYSTEM - MARMON COUPLING TO MICHIANA DRAIN REPLACED. MICHIANA PRESSURE FITTING REPLACED.'.
**23.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRIPLE VALVE REPLACED. BRAKE CYLINDER SAFETY VALVE REPLACED EX DL 49. AIR BRAKE TEST COMPLETED. T/PIPE COCK HANDLE REP'D'.
**29.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR PIPE REWELDED.'.
**26.07.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - W/SLIP IN DYN/BRAKE - ADP MODULE REPLACED, A/C FAULTY. LOCO RELEASED TO TRAFFIC.'.
**07.08.1993** Service defect: 'F - ELECTRICAL MISCELLANEOUS - FEEDBACK RESISTORS R33A, 33B & R34A CHANGED, A/C FAULTY.'.
**07.08.1993** Service defect: 'F - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR ADJUSTED. LOCO LOAD TESTED OK.'.
**31.08.1993** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.
**31.08.1993** Service defect: 'UN - ENGINE - AIR DRYER CHECKED & TESTED MECHANICALLY & ELECTRICALLY.'.
**31.08.1993** Service defect: 'UN - GENERAL - D/S WINDSCREEN WIPER REPLACED. OBS/SEAT REPLACED. OBS/SIDE 'A'END RED INDICATION LIGHT LENS REPLACED.'.
**31.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - SEALED TOP DECK, TIGHTENED TOP DECK BOLTS, A/C OIL LEAKS.'.
**31.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - B/PIPE COCK REPLACED.'.
**03.09.1993** Service defect: 'UN - ENGINE - AIR DRYER CHANGED, A/C U/S.'.
**03.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END DRIVE SIDE UNCOUPLER ROD REPAIRED.'.

**DL 46**

Details: locomotive 'DL 46 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 11.05.1989
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 22.04.1997 | | |
| SW Service Mileage: | 1694947 KM | SW Service Date: | 11.09.1996 |
| A Service Mileage: | 1711672 KM | A Service Date: | 11.10.1996 |
| B Service Mileage: | 1623004 KM | B Service Date: | 11.06.1996 |
| C Service Mileage: | 1462980 KM | C Service Date: | 25.11.1995 |
| D Service Mileage: | 1262015 KM | D Service Date: | 29.11.1994 |
| WT Service Mileage: | 868278 KM | WT Service Date: | 21.01.1993 |
| US Service Mileage: | 1752054 KM | A Service Date: | 22.04.1997 |

**05.07.1989** Service defect: 'UN - GENERAL - BOOKED FOR ROUGH RIDING.CHECKED,UNABLE TO FAULT.'.
**10.07.1989** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**10.07.1989** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - MODIFICATION - EMERGENCY/STOP PLATE MODIFICATION COMPLETED.'.
**10.07.1989** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - NAME PLATE - MU2A VALVE PLATE FITTED TO PEDISTAL.'.
**10.07.1989** Service defect: 'SW - VALVE BRIDGE/LASH ADJUSTER - COLLET/BRIDGE INSPECTION - CHECKED OK.'.
**26.07.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHTS ADJUSTED.'.

**16.08.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - NO FOR/REV - IOL MODULE REPLACED.'.
**16.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - UNABLE TO LIFT LOAD 3381 - FRONT SANDERS CUT BACK IN A/C FOUND CUT OUT. REAR SAND BOXES FILLED A/C EMPTY.'.
**19.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - BRIDGE WIRES FITTED A/C MOD OF FIELD POLARITY REVERSAL BRIDGE.'.
**19.08.1989** Service defect: 'TW - LUBRICATING SYSTEM - BOGIE LUBE -ALL GEAR CASES FULL.'.
**08.09.1989** Service defect: 'UN - BOGIE - STABILISERS ADDED TO PREVENT ROCKING OF LOCO.'.
**09.09.1989** Service defect: 'UN - FUEL SYSTEM - HUNTING - NEW FUEL FILTERS INSTALLED.'.
**10.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - UNABLE TO CHARGE BRK/PIPE - A.1.CHARGING VALVE REPLACED. - AIR LEAK ON 53 PIPE REPAIRED.'.
**16.09.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO POWER - LUG ON ARN-73 CABLE REPAIRED.(LUG BROKEN) - TESTED OK IN POWER AFTER REPAIRS COMPLETED.'.
**21.09.1989** Service defect: 'UN - AUXILLARY MACHINES - FRIDGE CHECK - ISOLATION COCK REPOSITIONED & OPERATING OK.'.
**13.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK - MICHIANA TANK COVER GASKET REPLACED.(BROKEN)'.
**29.10.1989** Service defect: 'TW - LUBRICATING SYSTEM - LUBE CHECK - NO.2(1BAG),NO.3(3BAGS),NO.5(2BAGS),NO.6(6BAGS) OF CRATER ADDED TO GEAR CASES.'.
**07.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRE HD 33 REPAIRED ON 70 BOARD.'.
**11.11.1989** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE GRID INSPECTED A/C GRID SHORTED.FAN TESTED OK. NO FAULT FOUND.'.
**11.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - 4 BAGS OF CRATER ADDED TO EACH GEAR CASE.'.
**20.11.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - D/SIDE NO.3 RADIATOR REPLACED A/C LEAKING.'.
**20.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RADIATOR FAN PLUG BASE & PLUG DAMAGED,REPAIRED OK.'.
**06.12.1989** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS(3),5 BAGS(1,5&6),OTHERS OK.'.
**06.12.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.3 (1),R.3 (2). - L.4 (5),R.4 (1).'.
**06.12.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.5 (4),R.5 (5). - L.6 (1).R.6 (3).'.
**06.12.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1 (4),R.1 (4). - L.2 (3),R.2 (3).'.
**06.12.1989** Service defect: 'B - BROKEN PIPE - LOOSE PIPE - AIR/BOX DRAIN PIPE TIGHTENED.'.
**30.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**22.01.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - GAUGE LIGHT GLOBES CHANGED.UNABLE TO REPAIR FOG LIGHT A/C NIL SPARES.'.
**22.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRAVELS ADJUSTED.'.
**28.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**28.01.1990** Service defect: 'TW - ENGINE GOVERNOR - HUNTING - GOVN.ADJUSTED BY CLYDE PERSONEL.(200 H/P LOW)'.
**28.01.1990** Service defect: 'TW - OTHER BODY REPAIRS - BROKEN MIRROR - O/SIDE MIRROR REPLACED.'.
**31.01.1990** Service defect: 'SW - AUXILLARY MACHINES - FILTER MOD.- OIL/MIST FILTER FITTED TO AIR/FRIDGE.'.
**31.01.1990** Service defect: 'SW - BROKEN VALVE - LASH ADJUSTERS - REPLACED.(EMD INSTRUCTION) (TEST TYPE)'.
**31.01.1990** Service defect: 'SW - FUEL SYSTEM INJECTORS - INJECTORS - REPLACED & FUEL FILTERS CHANGED.(WATER IN SYSTEM'.
**12.02.1990** Service defect: 'UN - BOGIE - DERAILMENT CHECK -'.
**18.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(1,3,4&5).'.
**20.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - LOST POWER - MODULE CCB TRIPPED AND RESET BY DRIVERS AND POWER REGAINED. RIDDEN BY CLYDE SERVICE STAFF.'.
**20.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - LOST POWER - TESTED AT DDPTAUG - UNABLE TO FAULT'.
**02.03.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 4 BAGS(3,4,5&6),1&2 OK. (TMGL)'.
**02.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(1),R.3(1). - L.4(4),R.4(4).'.
**02.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(4),R.5(0). - L.6(1),R.6(0).'.
**02.03.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(5),R.1(4). - L.2(3),R.2(1).'.
**02.03.1990** Service defect: 'A - ENGINE GOVERNOR - LOW RACK POSITION - GOVERNOR REMOVED AND ADJUSTED ON TEST BENCH.'.
**02.03.1990** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - COALESCER NOT WORKING - TIMER & CIRCUIT BOARD ASSEMBLY CHANGED A/C BURNT CONNECTIONS.'.
**06.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESOR EP VALVE REPLACED.'.
**14.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - SAFETY VALVE - MAIN RESERVOIR SAFETY VALVE BLOWING - SAFETY VALVE ADJUSTED TO 930 KPA & TESTED OK.'.
**24.03.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**24.03.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - HOLED RADIATOR - D/SIDE MIDDLE RADIATOR REPLACED.'.
**24.03.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - HEAD/LIGHT MOD.COMPLETED.'.
**24.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION CHOKE PLATE - MODIFIED CHOKE PLATE INSTALLED. -

OPERATION CHECKED OK.'.

**24.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MINIMUM REDUCTION TIME - WITH NEW PLATE 11 SECONDS. FULL SERVICE APPLICATION - ' ' ' 16 SECONDS.'.

**24.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - GASKET - NEW GASKETS FITTED TO SIDE PLATES ON FUEL TANK. SEALS - NOSE & CAB SEALS REPLACED.'.

**19.04.1990** Service defect: 'UN - NO FAULT FOUND - DYNAMIC FAULT - OPERATION CHECKED IN DEPOT,NOT FAULTED.'.

**29.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**08.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE FROM MAIN RES RHS REPAIRED A/C BROKEN.'.

**12.05.1990** Service defect: 'UN - OTHER BODY REPAIRS - NOSE REPAIRS - TRIP LEVERS REPAIRED. - DUMMY COUPLINGS REPLACED.'.

**13.05.1990** Service defect: 'UN - BROKEN PIPE - CRACKED PIPE - MAIN/RESERVOIR PIPE RE-WELDED.'.

**29.05.1990** Service defect: 'C - BOGIE - BOGIE ROTATION - COMPLETED.'.

**29.05.1990** Service defect: 'C - ELECTRICAL MISC. MODULES - HASLER TELOC 2000 MODIFIED - EPROM CHANGED ON COMPX BOARD, ANINT BOARD CHANGED.'.

**08.06.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK - D/S N01 RADIATOR CHANGED. - RADAITOR MOD COMPLETED. (VIBRATIONS).'.

**18.06.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**18.06.1990** Service defect: 'UN - NO FAULT FOUND - POWER SUPPLY FAILURE - LOCO UNABLE TO FAULT IN DEPOT.'.

**14.07.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH CASE.'.

**29.07.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**17.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,4&5),5 BAGS(2&6). (TMGL)'.

**17.08.1990** Service defect: 'TW - BROKEN PIPE - OIL LEAK - AIR/BOX DRAIN REPAIRED.'.

**25.08.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - DYNAMIC FAN FAILURE,DYNAMIC DISCONNECTED.'.

**08.09.1990** Service defect: 'A - CONTACTOR MISCELLANEOUS - S.G.C.CONTACTOR - INSTALLED.(EX.DL39 S.G.C.) - G.R.RECTIFIERS INSTALLED.(EX.DL39)'.

**08.09.1990** Service defect: 'A - DYNAMIC BRAKE - DYNAMIC FAN - EX.DL39 INSTALLED.(FIELD/POLE CONNECTION REP'D - (COMM.ON DYNAMIC FAN TRUED/UP)'.

**08.09.1990** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE - NEW VALVE FITTED.(USED FOR DL36)'.

**08.09.1990** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MODIFICATION - ME7553 BRAKE/VALVE MOD.COMPLETED.'.

**08.09.1990** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO SENSOR - OPTICAL SENSOR REPLACED.(USED FOR DL44)'.

**08.09.1990** Service defect: 'A - RADIATOR/PRESSURISING FAN - FAN FAILURE - NO.2&3 RADIATOR FAN REPLACED.(CLYDE RE-COND.)'.

**12.09.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - - (FAN RUNNING IN REVERSE AT HIGH SPEED)'.

**12.09.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN FAILURE - NO.2 RADIATOR FAN REPLACED. FAN WIRING - NO.2 FAN WIRING CORRECTED.(FAN IN REVERSE)'.

**13.10.1990** Service defect: 'TS - BOGIE - BOGIE LUBE-2 BAGS FOR EACH CASE'.

**13.10.1990** Service defect: 'TS - GENERAL - TOILET SERVICED'.

**28.10.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.(27/10) (O/H CENTRE) - (SPEEDO READING WAS 389268)'.

**28.10.1990** Service defect: 'UN - INDEPENDENT BRAKE TENSION SPRING TO RENEW,BADLY WO'.

**28.10.1990** Service defect: 'UN - RN,CAUSING BINDING OF HANDLE.'.

**17.11.1990** Service defect: 'UN - AIR CONDITIONING - UNIT NOISY - COMPRESSOR SUPPORT BAR RE-WELDED IN POSITION. - UNIT OPERATION CHECKED OK.'.

**17.11.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**17.11.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - S.G.C.FAULT - CONTACTOR REPLACED.(COIL O.C.C.)'.

**17.11.1990** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - HUNTING - LOAD/REGULATOR REPLACED.(WORN FACE/PLATE)'.

**21.11.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**21.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.3(6),R.3(2). - L.4(7),R.4(3).'.

**21.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.5(6),R.5(2). - L.6(3),R.6(2).'.

**21.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(2). - L.2(4),R.2(0).'.

**21.11.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - HUNTING - LOCO LOAD/TESTED,ESTIMATED H/POWER 2840 NOTCH 8. - 1100 VOLTS,1800 AMPS. SLIGHT HUNT,LOCO RELEASED.'.

**10.12.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND.FAULT -'.

**10.12.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT -'.

**13.03.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - LOW SPEED NOT WORKING - NO3 RAD FAN CONTACTOR COIL TO REPLACE WHEN STOCK AVAILABLE.'.

**13.03.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - BURNT RAD FAN - NO1 RAD FAN REPLACED. FEMALE PLUGS ON NO1 REPLACED A/C BURNT PINS A/C SUSPECTED LOOSE PLUG.'.

**13.03.1991** Service defect: 'UN - NO3 RAD FAN CONTACTOR (LOW SPEED) TO REPLACE A/C'.

**13.03.1991** Service defect: 'UN - COIL NOT OPERATING 13/3.)'.

**20.03.1991** Service defect: 'UN - GENERAL UNABLE TO LIFT LOAD - ENGINE LOAD TESTED FOR 1 HOUR & CHECKED OK,A/C HUNTING UNDERLOAD.'.

**27.03.1991** Service defect: 'UN - DYNAMIC BRAKE -

MODIFICATION - DYNAMIC FAN VENT MOD.COMPLETED.'.

**27.03.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - COIL U/S - NO.3 FAN CONTACTOR & COIL REPLACED. - (FAN OPERATING OK.)'.

**04.04.1991** Service defect: 'UN - BOGIE - ROUGH RIDING INSPECTION CHECKED OK. CAB BODY SEAL OK. CAB BUMP MOUNTS CLEARANCES OK.'.

**04.04.1991** Service defect: 'UN - EXHAUST - LEAKING EXHAUST - EXHAUST SCREEN GASKET REPLACED.'.

**04.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE CYLINDER PRESSURE ADJUSTED FROM 275KPA TO 350KPA.'.

**06.04.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SAFETY VALVE REPLACED A/C BROKEN OFF.'.

**19.04.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED.'.

**19.04.1991** Service defect: 'UN - FUEL SYSTEM LINES - NO7 FUEL LINE REPLACED,A/C LEAKING.'.

**19.04.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGE,A/C FUEL DILUTION.'.

**16.05.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - NO-POWER - GFD CONTACTOR REPLACED.(INT/LOCK STUD STRIPPED)'.

**31.05.1991** Service defect: 'D - ELECTRICAL MISC. MODULES - 30 ACW MODULE REPLACED.'.

**31.05.1991** Service defect: 'D - ELECTRICAL MISC. MODULES - F.B.L. MODULE REMOVED FOR USE ON DL 37,NEW FBL MODULE FITTEDFROM STORES.'.

**31.05.1991** Service defect: 'D - EXHAUST - CENTRE EXHAUST GASKET REPLACED ON EXH STACK,A/C BLOWN.FLEXI JOINT ON EDUCTOR PIPE REPLACED,A/C CRACKED.'.

**31.05.1991** Service defect: 'D - GENERAL - TOILET FLUSH VALVE FITTED.'.

**31.05.1991** Service defect: 'D - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE ENGINE END RENEWED,A/C RUBBERS U/S.'.

**31.05.1991** Service defect: 'D - MECHANICAL EQUIPMENT SANDING GEAR - SANDING 'SALEM' VALVES REPLACED.'.

**31.05.1991** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - DRIVERS BRAKE VALVE FITTED.'.

**31.05.1991** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - I.R. SAFETY VALVE CLEANED & REPAIRED.'.

**05.06.1991** Service defect: 'TS - ELECTRICAL MISC. MODULES - FBL MODULE REPLACED,LOCO LOAD BANKED OK.'.

**05.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - FEEDBACK CIRCUITS CHECKED OK.'.

**05.06.1991** Service defect: 'TS - FUEL SYSTEM - FUEL FILTERS CHANGED.RACKS ADJUSTED.'.

**20.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR/DRIER - CHANGE/OUT COMPLETED.'.

**17.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO/BRAKE - MODIFIED BRAKE VALVE INSTALLED.(FRICTION PAD)'.

**17.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - TRIP/LEVER GEAR U/S/ - 'A'END TRIP/LEVERS REPAIRED.'.

**27.07.1991** Service defect: 'UN - R20 B RESISTOR REQUIRED.27/7.'.

**01.08.1991** Service defect: 'UN - ENGINE GOVERNOR - GOVENOR REPLACED, A/C HUNTING.'.

**01.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE REPLACED.'.

**16.08.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**20.08.1991** Service defect: 'A - CONTACTOR MISCELLANEOUS - EXTENDED RANGE CONTACTOR OBS/SIDE REPLACED,A/C U/S.'.

**20.08.1991** Service defect: 'A - ELECTRICAL MISC. HEADLIGHT - R20A,B & C REPLACED HEADLIGHT VOLTAGES SET.'.

**20.08.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - RHEOSTAT REPLACED, A/C MANUAL POWER U/S.'.

**20.08.1991** Service defect: 'A - GENERAL - LHS PEDESTAL NO 1 LINER REPLACED.'.

**20.08.1991** Service defect: 'A - VIGILANCE - OBS/SIDE VIG LIGHT REPAIRED.'.

**20.08.1991** Service defect: 'A - ENGINE PROTECTION DEVICE TO CHANGE WHEN AVAILABLE.'.

**20.08.1991** Service defect: 'A - 20/8.'.

**28.08.1991** Service defect: 'UN - ENGINE - ENGINE PROTECTION DEVICE CHANGED,CHECKED OK.'.

**28.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - HASLER UNLOADED.'.

**28.08.1991** Service defect: 'UN - TEMP PROBE TP REPAIR.28/8.'.

**10.09.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - BLOWN DIODES & FUSES REPLACED.'.

**26.09.1991** Service defect: 'SW - ALTERNATOR - DIODE & FUSE MOD.- COMPLETED.'.

**26.09.1991** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - FITTED.'.

**26.09.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN PIN MOD.- COMPLETED.'.

**18.10.1991** Service defect: 'UN - COOLING SYSTEM - TEMP PROBE SWAPPED TO OTHER PROBES & CHECKED OK,A/C U/S.'.

**20.11.1991** Service defect: 'B - BOGIE - BOGIE ROTATION COMPLETED.'.

**20.11.1991** Service defect: 'B - GENERAL - REPAIRS TO STEPS COMPLETED.'.

**10.01.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - TOILET REGULATING VALVE REPLACED.'.

**14.02.1992** Service defect: 'A - TRYMOUNT SEAL 'A'END RIGHT SIDE DAMAGED.NIL STOCK.'.

**25.02.1992** Service defect: 'UN - AIR CONDITIONING - AIR COND. REPAIRED TEMPORARILY.'.

**25.02.1992** Service defect: 'UN - A/CON REPAIRED TEMP.C/OVER UNIT NEEDED.'.

**08.04.1992** Service defect: 'UN - ENGINE GOVERNOR - GOVENOR CHANGED.'.

**08.04.1992** Service defect: 'UN - TRACTION MOTOR ARMATURE BEARING - NO 1 T/MOTOR REPLACED,A/C PINION BEARING.IN - 89D1NO6, OUT -88M1NO6.'.

**08.04.1992** Service defect: 'UN - VIGILANCE - VIG BUTTON REPLACED.'.

**01.05.1992** Service defect: 'CA - AIR CONDITIONING - AIR

CONDITIONING UNIT REPLACED.OK.'.

**01.05.1992** Service defect: 'CA - GENERAL - O/SIDE SEAT REPAIRED.OK.'.

**19.05.1992** Service defect: 'UN - BOGIE - TRACTION MOTOR GEAR CASE FILLER CAPS REPLACED ON NO 1,3,6 10 BAGS OF TMG ADDED TO EACH GEAR CASE AS TEETH SHINEY'.

**01.06.1992** Service defect: 'UN - GENERAL - TOILET FLAP REPAIRED.'.

**01.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR ADJUSTED.'.

**21.06.1992** Service defect: 'UN - CONTACTOR EP VALVES - E.P. VALVE & GASKET CHANGED OUT ON COMPRESSOR UNLOADER A/C NOT PULLING IN WHEN ENERGISED CAUSING SAFETY VALVE TO BLOW.'.

**21.06.1992** Service defect: 'UN - DRIVERS SIDE FUEL CUT OFF NOT WORKING'.

**31.07.1992** Service defect: 'A - AUXILLARY MACHINES - AUX. GEN.BRACKET WELDED A/C BROKEN.'.

**31.07.1992** Service defect: 'A - COOLING SYSTEM - COOLANT CHANGED.'.

**31.07.1992** Service defect: 'A - ENGINE - CAMSHAFT GEAR CHECKED OK.'.

**31.07.1992** Service defect: 'A - OTHER BODY REPAIRS - ENGINE ROOM DOORS REPAIRED. 'A'END COUPLER PULL RODS STRAIGHTENED.'.

**03.08.1992** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATOR CHANGED A/C D/SIDE NO.2 U/S.'.

**05.11.1992** Service defect: 'B - GENERAL - W/WASHER NOZZLES REPLACED OBS/SIDE.'.

**05.11.1992** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INSPECTION & COUNTERWEIGHT INSPECTION OK.'.

**05.11.1992** Service defect: 'SW - FUEL SYSTEM - FUEL TANK CHANGED. D/S FLOAT FITTING REPAIRED, A/C LEAKING.'.

**05.11.1992** Service defect: 'SW - LUBRICATING SYSTEM - OIL PUMP CHANGED.'.

**05.11.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN REPLACED.'.

**05.11.1992** Service defect: 'SW - TEST COCKS TO WELD UP.5/11.'.

**18.11.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 8 HEAD REPLACED, A/C DAMAGED TEST COCK. TEST COCK SEALS REPLACED.'.

**04.12.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RE33A & B REPLACED, A/C U/S. D/B CUT BACK IN & CHECKED OK.'.

**20.01.1993** Service defect: 'UN - BAD MAINTENANCE - NO3 TRACTION MOTOR RECONECTED TO GO CORECT WAY.'.

**20.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLING LEVERS STRAIGHTENED.'.

**25.01.1993** Service defect: 'SW - NO.3 W/SET SPRINGS TO REPLACE.'.

**03.02.1993** Service defect: 'UN - BOGIE - NO 6 GEARCASE LUBE CAP REPLACED & GEARCASE TOPPED UP, A/C CAP MISSING.'.

**03.02.1993** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR CHANGED EX DL 47, A/C HUNTING. GOV NO IN- 2190814. OUT- 2212608. LOAD TESTED OK.'.

**22.02.1993** Service defect: 'UN - OTHER BODY REPAIRS - TOILET REPLACED A/C FLUSH VALVE NOT OPERATING CORRECTLY.'.

**22.03.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR TESTED OK.'.

**22.03.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO 1 RADIATOR FAN REPLACED + 3 PIN PLUG REPAIRS COMPLETED TOMOTOR. COOLING FAN CONTACTORS CHACKED OK - COOLING FAN TEST'.

**08.04.1993** Service defect: 'A - BOGIE - NO 1 GEAR CASE TIGHTENED,A/C LOOSE.'.

**08.04.1993** Service defect: 'A - DYNAMIC BRAKE - ALL BRUSHES CHANGED ON DYN/BRAKE BLOWER,A/C FRAYED PIGTAILS.'.

**08.04.1993** Service defect: 'A - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT TESTED OK,A/C BOOKING OF POWER LOSS.'.

**08.04.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - COUPLING RODS STRAIGHTENED 'A'END.'.

**08.04.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDER PIPE RENEWED.'.

**08.04.1993** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - HORN REPAIRED ON D/SIDE.'.

**10.06.1993** Service defect: 'UN - BOGIE - BOGIE CHANGE COMPLETED.'.

**10.06.1993** Service defect: 'UN - FUEL SYSTEM - NEW FUEL TANK INSTALLED.'.

**02.07.1993** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - REPLACED WIRE ON CRL RELAY A/C CAUSING COMPRESSOR LOADING FAULT.'.

**02.07.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER TNIT VALVES CLEANED A/C DIRTY CAUSING LEAK.'.

**02.07.1993** Service defect: 'B - TRACTION MOTOR - T/M COVER REPLACED TOP OF NO.6 AND BOTTOM OF NO.4.'.

**02.07.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - TEST BRUSHES FITTED TO 'A' BOGIE.'.

**02.07.1993** Service defect: 'B - AIR CON. COMMPRESSOR SEAL U/S.2/7/93.'.

**29.07.1993** Service defect: 'UN - BOGIE - NEW RUBBERS FITTED TO OUTER END OF SHOCKERS ON 'A' & 'B' END'.

**29.07.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FCS3 FAN CONTACTOR REPLACED, A/C HOT TERMINAL & MELTED COIL.BUS BAR CLEANED & DRESSED.'.

**29.07.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - IOL 4 + 7 MODULE SWAPPED, A/C OUTPUT TRANISTOR BLOWN. CHECKED, ALL OKAY.'.

**29.07.1993** Service defect: 'UN - GENERAL - DRIVERS SIDE SEAT REPLACED.'.

**29.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - OBS SIDE SLIDING WINDOW REPAIRED.'.

**15.10.1993** Service defect: 'A - COOLING SYSTEM - TEMP PROBE FITTED.'.

**15.10.1993** Service defect: 'A - GENERAL - D/S BLIND ALSO REPAIRED.'.

**15.10.1993** Service defect: 'A - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW REPAIRED.'.

**15.10.1993** Service defect: 'UN - ENGINE - 6 POWER ASSEMBLYS CHANGED. REMOVED CAMSHAFT, REPAIRED & REPLACED. CAM STUB SHAFT

REPLACED.'.

**15.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAKS REPAIRED AT 'A'END T.P. COCKS. M.R. PIPE FROM RESERVOIR OBS SIDE WELDED, A/C LEAK.'.

**19.10.1993** Service defect: 'TS - AUXILLARY MACHINES - AUX GENERATOR ALIGNMENT CORRECTED. AUX GEN COVER REPLACED.'.

**19.10.1993** Service defect: 'TS - GENERAL - OBS/SIDE SEAT REPLACED.'.

**19.10.1993** Service defect: 'TS - MECHANICAL EQUIPMENT - LOCO WOULD NOT START- LOCO INSPECTED, FOUND LOW OIL BUTTON OUT. LOW OIL BUTTON PUSHED IN, LOCO STARTED OK. LOCO LOAD'.

**04.11.1993** Service defect: 'TS - AIR CONDITIONING - AIR CONDITIONER REPLACED.'.

**04.11.1993** Service defect: 'TS - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR REPLACED.'.

**04.11.1993** Service defect: 'TS - ENGINE - NO 9 POWER/ASS REMOVED, A/C NO 9 TEST COCK CRACKED, CRACK REPAIRED AND POWER/ASS REPLACED. NO 6 P/ASS REMOVED AND'.

**04.11.1993** Service defect: 'TS - ENGINE AIR FILTERS - ENG AIR INTAKE FILTERS REPLACED.'.

**12.11.1993** Service defect: 'UN - GENERAL LOSS OF POWER - LOCO LOSING POWER - LOCO OK ON TRIAL RUN.'.

**27.11.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT CHANGED, A/C NO SIGNAL GIVEN.'.

**15.12.1993** Service defect: 'C - AIR CONDITIONING - AIR CON. COMPRESSOR SEALS CHECKED OK'.

**15.12.1993** Service defect: 'C - ENGINE - MARMON RUBBERS REPLACED ON 'Y' PIECE OBS. SIDE GOVERNOR END.'.

**15.12.1993** Service defect: 'C - MECHANICAL EQUIPMENT - AIR DRIER REPLACED A/C U/S.'.

**15.12.1993** Service defect: 'C - OTHER BODY REPAIRS - BATTERY SLIDES CLEANED AND LUBRICATED.'.

**18.12.1993** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - R6 DYN. BRAKE GRID REPLACED A/C OPEN CIRCUIT.'.

**25.02.1994** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED. DIRECTION TESTED OK.'.

**25.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SGC REPLACED, A/C OUT OF ALIGNMENT AND STICKING ON ARC SHUTETESTED OK.'.

**25.03.1994** Service defect: 'A - BATTERY MAINTENANCE - ONE BATTERY CHANGED, A/C U/S CELL. BATTERY ROLLERS CHANGED.'.

**25.03.1994** Service defect: 'A - BOGIE - FLANGE LUBRICATION DEVICE PUMP REPAIRED, NEW SEALS FITTED.'.

**25.03.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - AUX GEN OUTPUT CIRCUIT BREAKER REPLACED, A/C U/S.'.

**25.03.1994** Service defect: 'A - ENGINE - NO 12 POWER ASSEMBLY CHANGED. LOAD TESTED OK, 2850 H.P.'.

**25.03.1994** Service defect: 'A - FUEL SYSTEM LINES - TWO FUEL LINES CHANGED, A/C SEATS SCRATCHED.'.

**14.04.1994** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - GEN FIELD CB AND LIGHT FITTING REPLACED, F/RIGHT MARKER.'.

**14.04.1994** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - 'B'END KNUCKLE REPLACED.'.

**21.04.1994** Service defect: 'TS - ENGINE - NO 12 POWER ASSEMBLY CHANGED AND FILTER CHANGED. LOAD TESTEDOK.'.

**22.06.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - SCR REPLACED WITH NEW PANEL, A/C BURNT LUG. NO IN-81E1-1007.BCP TRANSDUCER REPLACED, A/C NO VARIATION IN VOLTAGE.'.

**22.06.1994** Service defect: 'B - ENGINE WATER LEAK - NO 10 WATER JUMPER CHANGED,A/C LEAKING.'.

**22.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT BRAKE VALVE - 135 PSI SAFETY VALVE REPLACED.'.

**22.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLING RODS STRAIGHTENED.'.

**22.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - R4 SAND HOSE CHANGED.'.

**22.06.1994** Service defect: 'B - RADIATOR/PRESSURISING FAN - 'B'END FAN REPLACED, IN-88G6, OUT-87H4. 2 RAD FAN FUSES CHANGED IN NO 3 FAN.'.

**22.06.1994** Service defect: 'B - TRACTION MOTOR - NO 3 T/M NEW BOTTOM COVER, ALL T/M TOP COVER SEALS REPLACED.'.

### DL 47

Details: locomotive 'DL 47 X' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 06.06.1989
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 16.04.1997 | | |
| SW Service Mileage: | 1411089 KM | SW Service Date: | 05.03.1996 |
| A Service Mileage: | 151450 KM | A Service Date: | 03.12.1996 |
| B Service Mileage: | 79560 KM | B Service Date: | 31.08.1996 |
| C Service Mileage: | 211567 KM | C Service Date: | 19.03.1997 |
| D Service Mileage: | 1234480 KM | D Service Date: | 05.06.1995 |
| WT Service Mileage: | 1111153 KM | WT Service Date: | 04.01.1994 |
| US Service Mileage: | 220508 KM | A Service Date: | 16.04.1997 |

**11.07.1989** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**11.07.1989** Service defect: 'UN - ENGINE LINER - BROKEN LINER STUD - NO.5 ASSEMBLY REPLACED.(NEW ASSEMBLY)'.

**17.07.1989** Service defect: 'UN - WHEELSLIP - WHEELSLIP IN DYNAMIC BRAKE - SAND BOXES FILLED A/C VERY LOW.SUSPECTED CAUSE OF WHEELSLIP IN DYNAMIC.'.

**30.07.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 6 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**04.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR BOOKED FOR NOT UNLOADING.UNABLE TO FAULT IN DEPOT'.
**07.08.1989** Service defect: 'UN - GENERAL - TOILET FLUSH REPAIRED'.
**07.08.1989** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED'.
**10.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE CHECKED OK.'.
**15.08.1989** Service defect: 'UN - ALTERNATOR - BURNT SLIP RINGS - ALT SLIP RINGS MACHINED A/C BADLY GROOVEDSOME SLIP RING BRUSHES REPLACED A/C BURNT.'.
**17.08.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WRONG GAUGE WIRE - D18 SLIP RING POLARITY LOOP WIRE REPLACEDWITH CORRECT WIRING.'.
**17.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - LEAKING SANDER - SANDER AIR LEAK REPAIRED.'.
**20.08.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SEALED BEAM CHANGED.'.
**20.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - BLOCKED SANDERS REPAIRED.'.
**20.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVE ADJUSTED.'.
**31.08.1989** Service defect: 'UN - BOGIE - LUBRICATION CHECK - ALL GEAR CASES CHECKED OK.'.
**31.08.1989** Service defect: 'UN - RADIO REPAIR - RADIO RELOCATED.'.
**12.09.1989** Service defect: 'UN - FUEL SYSTEM - HUNTING - FUEL LINE FROM STRAINER TO FUEL PUMP REFLARED. - (CRACKED FLARE ON FUEL LINE CAUSING AERATION)'.
**12.09.1989** Service defect: 'UN - NO FAULT FOUND - WHEEL/SLIP - LOCAL CONTROL C/BREAKER FOUND OFF IN TRAILING - UNIT GM46. C/BREAKER RESET & NO FURTHER PROBLEM'.
**18.09.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.ENGINE LOAD TESTED,NOTCH 8 REVS LOW,SETTO SPECIFICATIONS.'.
**18.09.1989** Service defect: 'UN - NO6.REVS.INCREASED 10 R.P.M.'.
**10.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3 (1) ,R.3 (2). - L.4 (4) ,R.4 (4.5).'.
**10.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5 (2) ,R.5 (3). - L.6 (2) ,R.6 (2).'.
**10.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORDED - L.1 (5.5),R.1 (5.5). - L.2 (3.5),R.2 (4).'.
**26.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES SUPPORT BRACKET WELDED.'.
**09.11.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - SEALED BEAM NOT WORKING - R10C RESISTOR REPLACED.BURNT BAND & OPEN CIRCUIT.'.
**22.11.1989** Service defect: 'UN - OTHER BODY REPAIRS - REAR CAB SEAL REPLACED A/C SPLIT.'.
**27.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES SUPPORT STRAP WELDED.'.
**02.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(1),3 BAGS(5),4 BAGS(2),6 BAGS(6). (TMGL) - NO.3&4 G/CASES OK.'.
**30.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(2&5),OTHERS CHECKED OK.'.
**11.01.1990** Service defect: 'B - BOGIE - LUBRICANT CHECK- 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**11.01.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.3(1),R.3(1). - L.4(5),R.4(4).'.
**11.01.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(3). - L.6(1),R.6(2).'.
**11.01.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(6),R.1(6). - L.2(3),R.2(2).'.
**20.01.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - HEAD/LIGHT SWITCH REPLACED.'.
**24.01.1990** Service defect: 'SW - BOGIE - - L.3(4.5),R.3(4). - L.4(1),R.4(0).'.
**24.01.1990** Service defect: 'SW - BOGIE - - L.5(2),R.5(1.5). - L.6(6),R.6(6). BOGIES REVERSED.'.
**24.01.1990** Service defect: 'SW - BOGIE - FLANGE WEAR RECORD - L.1(1),R.1(1.5). - L.2(0),R.2(0).'.
**24.01.1990** Service defect: 'SW - ELECTRICAL MISC. MODULES - ROMPAK - EXCITATION ROMPAK CHANGED OUT. (IN 01288) - (ELIMINATES SANDING AT HIGH SPEED) (OUT 00312)'.
**24.01.1990** Service defect: 'SW - NO FAULT FOUND - AIR/COND.- OPERATION CHECKED OK.'.
**02.02.1990** Service defect: 'UN - BROKEN PIPE - AIR BOX DRAIN PIPE REPAIRED CAUSING OIL MIST IN ENG ROOM.'.
**02.02.1990** Service defect: 'UN - NO FAULT FOUND - FUEL LEAK - FUEL REPORTED BY ENG DRIVER IN ENGINE ROOM. LOCO CHECKED AND LEAK FOUND.'.
**16.02.1990** Service defect: 'UN - NO FAULT FOUND - MODULE BREAKER TRIPPING - LOCO NOT FAULTED. (PSH MODULE OVERCURRENT)'.
**16.02.1990** Service defect: 'UN - LOCAL RUNNING A/C SHUT DOWNS & MODULE PROBLEM'.
**19.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**21.02.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - C/BREAKER TRIPPING - VR.13 MODULE CHANGED/OUT. - (PSH O/CURRENT FAULT)'.
**23.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - NO POWER - FAULT TRACED TO FCS & IOL3 MODULES. FCS MODULE CHANGED & TESTED ( Z2 DIODE FOUND BURNT , CAUSE'.
**23.02.1990** Service defect: 'UN - GENERAL LOSS OF POWER - NO POWER - UNKNOWN ) NO REPLACEMENT IOL MODULE AVAILABLE. ENGINE HUNT PROBLEM TO BE CHECKED FURTHER.'.
**24.02.1990** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE FAULT - IND. BRAKE HANDLE FOUND IN WRONG WAY - CAUSING IND. BRAKE APPLICATION WHEN AUTO. BRAKE USED.'.
**03.03.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - MODULE CHANGE - DL44) . SERIAL NO. OUT - 88-J-02924. SERIAL NO. IN - 88-H-03027.'.
**03.03.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - MODULE CHANGE - IOL MODULE POSITION 7 CHANGE COMPLETED. IOL EX DL44 FITTED ( A.N. REPAIRED IOL FITTED TO'.
**03.03.1990** Service defect: 'UN - ENGINE GOVERNOR -

ENGINE HUNTING - GOVERNOR CHANGED A/C HUNTING. LOAD REGULATOR RESISTOR PANEL BURNT.'.

**20.03.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MODIFICATION - H/LIGHT MOD COMPLETED.'.

**20.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION CHOKE PLATE - MODIFIED CHOKE PLATE INSTALLED. - OPERATION CHECKED OK.'.

**20.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MINIMUM REDUCTION TIME - WITH NEW PLATE 8 SECONDS. FULL SERVICE APPLICATION - ' ' ' 16 ' .'.

**20.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - CLYDE MODS - COMPLETED.'.

**22.03.1990** Service defect: 'UN - GENERAL - FUNCTION DISPLAY PANEL REMOVED.'.

**31.03.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 8 BAGS(5),REST OK.'.

**31.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - OIL IN AIR SYSTEM - CYLINDER LINERS HONED,NEW RINGS FITTED. - FILTER & OIL CHANGED.'.

**03.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**11.05.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK - D/SIDE NO.1 RADIATOR REPLACED.'.

**19.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**31.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(5&6),1-4 FULL.'.

**31.05.1990** Service defect: 'TW - ELECTRICAL MISC. MODULES - HASLER TELOC 2000 MODIFIED - EPROM CHANGED ON COMPX BOARD, ANINT BOARD CHANGED.'.

**21.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SPLIT BOWL - NO.3 SANDER BOWL REPLACED.'.

**21.06.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP - MODULE PLUGS REMOVED & REPLACED,FAULT LOST. - TRACK TESTED IN DEPOT OK.'.

**05.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - ALL GEAR CASES O.K.'.

**05.07.1990** Service defect: 'UN - VIGILANCE - VIGILANCE OPERATION CHECKED O.K.'.

**12.07.1990** Service defect: 'C - NO FAULT FOUND - W/SLIP IN DYAMIC - UNABLE TO FAULT.'.

**06.08.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE.'.

**06.08.1990** Service defect: 'SW - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED.'.

**06.08.1990** Service defect: 'SW - NO FAULT FOUND - WHEEL/SLIP IN DYNAMIC - NO FAULT EVIDENT ON TEST/RUN.'.

**10.08.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK - D/SIDE NO.1 RADIATOR REPLACED.'.

**10.08.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - SANDING AT ALL TIMES -'.

**19.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL LEVELS OK.'.

**19.08.1990** Service defect: 'TW - DYNAMIC BRAKE - DYNAMIC FAULT - SANDERS TOPPED/UP.'.

**01.09.1990** Service defect: 'SW - COOLING SYSTEM RADIATOR - MODIFICATION - RADIATOR MOD.COMPLETED.'.

**01.09.1990** Service defect: 'SW - WHEELSLIP - WHEEL/SLIP IN DYNAMIC - G.C.T WIRE SECURED.(WIRE LOOSE)'.

**26.09.1990** Service defect: 'SW - AIR CONDITIONING - - UNIT NO.REMOVED.(NO.19561-14 J13)'.

**26.09.1990** Service defect: 'SW - AIR CONDITIONING - NOT COOLING - AIR/COND UNIT REPLACED.(SHAFT SEAL U/S) - UNIT EX.DL50 INSTALLED.(NO.19561-16 J22)'.

**26.09.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 5 BAGS(4,5&6),OTHERS CHECKED OK.'.

**23.10.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**23.10.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(4),R.3(4). - L.4(2),R.4(10+).'.

**23.10.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(0),R.5(8). - L.6(4),R.6(6). TO PROFILE A.S.A.P.'.

**23.10.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(10+). - L.2(4),R.2(4).'.

**27.10.1990** Service defect: 'SW - TO MILE END FOR BRAKE ADJUST'.

**30.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - REPLACE BLOWN GASKET ON L.P. CYLINDER EXHAUST OF COMPRESSOR'.

**05.11.1990** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - BROKEN PIPE - M/RES.PIPE RE-WELDED AT WATSON BY RAIL/GANG. (D/SIDE) - (FAILED ON TRAIN NO.6PS1)'.

**05.11.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - - REPAIRS CHECKED IN DEPOT,NO PROBLEM.'.

**09.11.1990** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - FLEXIBLE PIPE HIGH/SIDE TO PRESSURE CONTROL - REPLACED(PIPE SPLIT),UNIT RE-GASSED TESTED OK.'.

**20.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - W.H.B.MOD.- COMPLETED.'.

**20.11.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB BUMP STOP MOD.- COMPLETED.'.

**12.02.1991** Service defect: 'UN - BOGIE - BOGIES ROTATED'.

**12.02.1991** Service defect: 'UN - IOL 1 AND 7 MODULES TO BE CHECKED AT PORT AUGUSTA*'.

**08.03.1991** Service defect: 'SW - AIR CONDITIONING - MOUNTS U/S - COMPRESSOR & MOTOR MOUNTS REPLACED.(4 NO.) - COMPRESSOR OIL TOPPED/UP.'.

**01.05.1991** Service defect: 'A - MAIN GENERATOR - REPAIRED RUBBER TO MAIN GEN CABLES,A/C RUBBED INSULATION.'.

**01.05.1991** Service defect: 'A - RADIATOR/PRESSURISING FAN - RESECURED 3 PLUGS TO 3 RAD FANS,SERIAL NO'S 88G6,88G8,88G2.'.

**12.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PROBLEM - SPRING REPLACED IN VALVE. - (COULDN'T RE-CLAIM EMERGENCY)'.

**03.07.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR ALIGNMENT -

COMPLETED.'.
**03.07.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO/BRAKE - MODIFIED BRAKE VALVE INSTALLED.(FRICTION PAD)'.
**08.07.1991** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE FAN CLEANED UP,A/C OILY & DIRTY,LOCO LOAD TESTED OK,TESTED IN YARD OK.'.
**16.07.1991** Service defect: 'UN - NO FAULT FOUND - CHECKED SLIPRINGS,BRUSHES,& ASSOCIATED WIRING.LOAD TESTED & TRACK TESTED OK.COULD NOT FAULT IN DEPOT.'.
**17.07.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - FCS.MODULE REPLACED.(COMPUTER ERROR) - (COMPANION ALTN.PROBLEM ON COMPUTER)'.
**17.07.1991** Service defect: 'UN - ENGINE - ** LOCO BOOKED ON SCHEDULED WORK FOR REPAIRS FROM W.A.**'.
**17.07.1991** Service defect: 'UN - SELF/LOAD & CONTROL EARTH TO REPAIR. (17/7)'.
**17.07.1991** Service defect: 'UN - LOCO REQUIRED FOR 2SP3.(INSUFFICIENT REPAIR TIME)'.
**06.08.1991** Service defect: 'D - GENERAL - R4 PEDESTAL LINER REPLACED A/C SPLIT.OBS SEAT REPLACED.'.
**06.08.1991** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END BOTH B.P. HOSES REPLACED.'A'END D/SIDE M.RES HOSE REPLACED, A/C HIT COW.'.
**06.08.1991** Service defect: 'D - T/M'S 1,2 & 6 REQUIRE BRUSHES IN BOTTOM BRUSH'.
**06.08.1991** Service defect: 'D - HOLDERS.NO1-6 BRUSHES,NO2-4 NO6-4.A/C NOT ENOUGH'.
**06.08.1991** Service defect: 'D - IN STOCK.6/8.SGC PILOT ASSEMBLY TO BE REPLACED.6/8'.
**09.08.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - SGC PILOT ASSEMBLY CHANGED, A/C INTERMITTENT FAILURE.SGC CON& TRANSITION CHECKED OK ON TRIAL RUN.'.
**18.10.1991** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER REPAIRED,TESTED & WORKING OK.'.
**30.10.1991** Service defect: 'A - EXHAUST - TURBO EXHAUST STACK WELDED UP.'.
**30.10.1991** Service defect: 'A - GENERAL - DRIVERS SEAT REPLACED.'.
**01.11.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - POWER SUPPLY UNIT FOR THE COMPUTER,FRAME WELDED,A/C CRACKED.'.
**13.12.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - S.G.C.CONTACTOR REPLACED & TESTED OPERATION OK.'.
**31.01.1992** Service defect: 'SW - ALTERNATOR - MODIFICATION - DIODE/FUSE MOD.COMPLETED.'.
**31.01.1992** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - INSTALLED.'.
**31.01.1992** Service defect: 'SW - COOLING SYSTEM RADIATOR - MODIFICATION - RAD/FAN PIN MOD.COMPLETED.'.
**31.01.1992** Service defect: 'SW - DYNAMIC BRAKE - MODIFICATION - DYNAMIC FAN VENT MOD.COMPLETED.'.
**20.02.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO LUBE PUMP ASSY BRACKET BOLTS REPLACED AND TIGHTENED.'.
**09.03.1992** Service defect: 'UN - HOLED FUEL TANK.'.
**15.05.1992** Service defect: 'A - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR RHEOSTAT CHANGED,A/C WORN AT 100
**15.05.1992** Service defect: 'A - ENGINE - NO 11 POWER ASSEMBLY CHANGED,A/C U/S.'.
**15.05.1992** Service defect: 'A - ENGINE CYLINDER HEADS - NO 3 CYL HEAD REPLACED,A/C WATER LEAK.'.
**15.05.1992** Service defect: 'A - LUBRICATING SYSTEM - OIL COOLER LEAK REPAIRED.'.
**06.07.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - NO.1 OBS. SIDE RADIATOR REPLACED.A/C LEAKING.'.
**05.08.1992** Service defect: 'C - ELECTRICAL MISCELLANEOUS - NO.2 TEMPERATURE PROBE REPLACED.'.
**16.10.1992** Service defect: 'SW - BOGIE - NO 1 GEARCASE SHIMED & TIGHTENED. NO 3 GEARCASE CRACKED, WELDED.'.
**16.10.1992** Service defect: 'SW - COOLING SYSTEM RADIATOR - MECH BONDED RADIATORS FITTED EX AL 23.'.
**16.10.1992** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - BATTERY REPLACED ON HASLER UNIT, A/C FAULT AL09'.
**16.10.1992** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO COUNTERWEIGHTS CHECKED OK.'.
**16.10.1992** Service defect: 'SW - FUEL SYSTEM - NEW FUEL TANK FITTED.'.
**20.10.1992** Service defect: 'A - TRACTION MOTOR - T/MOTOR SHUTTER ARM REPAIRED, A/C BROKEN OFF.'.
**20.10.1992** Service defect: 'A - FLANGE LUBRICATORS NOT WORKING EXCEPT ON R6.20/10.'.
**20.10.1992** Service defect: 'A - HASLER TO CHECK.20/10.'.
**23.10.1992** Service defect: 'SW - OTHER BODY REPAIRS - RUBBER & WINDOWS INSTALLATION COMPLETED.'.
**19.11.1992** Service defect: 'UN - BOGIE - L4 SPRING REPLACED, A/C BROKEN. LOCO MOVEMENT TESTED OK.'.
**04.01.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO OPTICAL SENSOR REPLACED, SPEEDO INDICATOR EX DL 44 FITTED. SPEEDO WIRING CHECKED OK, A/C SPEEDO U/S.'.
**08.02.1993** Service defect: 'B - BOGIE - BOGIE CHANGE COMPLETED. TRIMOUNT BOOTS REPLACED, A/C WORN.'.
**08.02.1993** Service defect: 'B - COOLING SYSTEM WATER PUMP - BOTH WATER PUMPS CHANGED, A/C U/S.'.
**08.02.1993** Service defect: 'B - ENGINE GOVERNOR - GOVERNOR CHANGED OVER TO MODIFIED TYPE.'.
**08.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE FOLLOWER BLOCK CHANGED & STOPS REWORKED.'.
**19.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SHROUD AROUND COMPRESSOR FILTER WELDED BACK ON.'.
**19.03.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CONTACTOR CHANGED,A/C BURNT. FANS TESTED OK.'.
**19.03.1993** Service defect: 'UN - CRACKS AROUND TOP OF SILENCER TO REPAIR.19/3.'.
**22.04.1993** Service defect: 'A - BOGIE - D/SIDE BOLSTER PAD REPLACED, A/C U/S. SHOCKER ON 'A'END REPLACED,

A/C U/S.'.
**22.04.1993** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - GEAR CASES 3,4 & 5 REPAIRED.'.
**22.04.1993** Service defect: 'A - EXHAUST - EXHAUST (MIDDLE)GASKET REPLACED, A/C BLOWN.'.
**22.04.1993** Service defect: 'A - GENERAL - TOILET FLUSH VALVE REPLACED.'.
**22.04.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - RAD FAN CONTACTORS TESTED OK.'.
**18.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HOT OIL SENSOR REPLACED. AMMETER REPLACED.'.
**18.06.1993** Service defect: 'UN - ENGINE AIR FILTERS - ENG AIR INTAKE FILTER HOUSING REPAIRED.'.
**18.06.1993** Service defect: 'UN - EXHAUST - EXHAUST STACK TO BLOCK GASKETS REPLACED.'.
**18.06.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL PUMP REPLACED. OIL LEAK ON OIL SEPARATOR FIXED.'.
**08.07.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - CPU EXCITATION MODULE REPLACED,A/C U/S. TESTED OK.'.
**14.07.1993** Service defect: 'A - FUEL PUMP MOTOR - BROKEN CONDUIT TO FUEL PUMP MOTOR TAPED UP.'.
**21.08.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.
**21.08.1993** Service defect: 'SW - GENERAL - 'A' END UNCOUPLER RODS REPAIRED.'.
**21.08.1993** Service defect: 'SW - OTHER BODY REPAIRS - ALT. ENG. COMPARTMENT WALL TIGHTENED.'.
**21.08.1993** Service defect: 'SW - REVERSER - REVERSER HANDLE REPLACED EX DL48 A/C DL47'S MISSING.'.
**21.08.1993** Service defect: 'SW - VIGILANCE - VIG. CONTROL PANEL REPLACED EX DL48 A/C GIVING FALSE SIGNAL TO ELAPSED TIME INDICATOR.'.
**21.08.1993** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - L2, L3 AND R6 SPRINGS RE-LOCATED AS WERE NOT PROPERLY SEATEDAFTER BOGIE ROTATION.'.
**05.10.1993** Service defect: 'B - ALTERNATOR - SLIP RINGS BRUSHES REPLACED IN ALT.'.
**05.10.1993** Service defect: 'B - GENERAL - OBS. SIDE WIPER REPAIRED.'.
**05.10.1993** Service defect: 'B - VIGILANCE - VIG. CONTROL BOX REPLACED TO RECTIFY FAULT.'.
**05.11.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - RAD FAN CONTACTOR FCF3A REPLACED, A/C BURNT COIL. WIRING REPAIRED.'.
**05.11.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FANS CHECKED OK.'.
**23.12.1993** Service defect: 'A - AIR CONDITIONING - NEW AIR CON. INSTALLED.'.
**23.12.1993** Service defect: 'A - BLOCKED FILTERS - TURBO AIR INTAKE FILTERS REPLACED.'.
**23.12.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - COMPUTER DISPLAY PANEL REPLACED AS PER INSTRUCTION.'.
**23.12.1993** Service defect: 'A - OTHER BODY REPAIRS - BOTH SLIDING WINDOWS REPAIRED. A/C RUST CAUSING WINDOWS TO JAM. RUST REMOVED FROM WINDOW FRAMES.'.
**05.02.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 6 WHEEL SET REPLACED, A/C RIM THICKNESS. MOVEMENT TESTED IN POWER/DYN BRAKE OK.'.
**23.02.1994** Service defect: 'SW - BOGIE - FLANGE LUBE CONTROL SOLENOID BOX REPLACED, EX DL45. BOGIE CHANGE COMPLETED. DIRECTION TESTED OK.'.
**23.02.1994** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT O/S BRAKE PIPE COCK REPLACED, A/C LEAKING. BRAKE PIPE HOSE REPLACED.'.
**23.02.1994** Service defect: 'SW - FLANGE LUBE NOT WORKING, A/C GREASE PUMP U/S.23/2'.
**25.02.1994** Service defect: 'UN - BOGIE - BOGIE SPRINGS RE-INSTALLED. OBS/SIDE REAR FLANGE LUBE PIPE CONNECTED.'.
**25.02.1994** Service defect: 'UN - TRACTION MOTOR - INSPECTION OF T/M'S COMPLETED - CHECKED OUT OK.'.
**08.03.1994** Service defect: 'TS - BOGIE - BOGIE CENTRE RUBBERS REPLACED & 2ND PLASTIC CENTRES REMOVED.FLANGE LUBE PIPES REPAIRED EX PIROTEK.'.
**08.03.1994** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET CHANGED OUT, A/C SUSPENSION BEARING COLLAPSE.'.
**08.03.1994** Service defect: 'TS - GENERAL - CAB WATER LEAK REPAIRS COMPLETED.'.
**08.03.1994** Service defect: 'TS - TRACTION MOTOR - NO5 T/MOTOR CHANGED OUT, A/C INTERNAL BEARING U/S.'.
**16.03.1994** Service defect: 'C - ENGINE - ENGINE PROTECTION DEVICE CHANGED, A/C LEAKING WATER.'.
**16.03.1994** Service defect: 'C - GENERAL - 'B'END DRIVERS SIDE BP COCK CHANGED, A/C LEAKING.'.
**16.03.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - A1 CHARGING CUT-OFF VALVE CHANGED, A/C U/S. AUTO DRAIN VALVE ON MAIN RES. CHANGED, A/C NOT DRAINING.'.
**16.03.1994** Service defect: 'C - MECHANICAL MAINTENANCE - SPEEDOMETER - PULSE GENERATOR FOR SPEEDO REPLACED.'.
**30.03.1994** Service defect: 'UN - ENGINE - ALL TEST COCK WELDING REPAIRS COMPLETED.'.
**30.03.1994** Service defect: 'UN - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C ARMATURE LOW READING, T/M NOT ACCEPTED.'.

### DL 48

Details: locomotive 'DL 48 R' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 02.08.1989
**Operating System:** AN

**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 15.04.1997 | | |
| Last Lift: | 23.07.1993 | | |
| SW Service Mileage: | 663031 KM | SW Service Date: | 15.04.1997 |
| A Service Mileage: | 573635 KM | A Service Date: | 10.10.1996 |
| B Service Mileage: | 516956 KM | B Service Date: | 08.06.1996 |
| C Service Mileage: | 626491 KM | C Service Date: | 05.02.1997 |
| D Service Mileage: | 384658 KM | D Service Date: | 28.10.1995 |
| F Service Mileage: | 919133 KM | A Service Date: | 23.07.1993 |
| WT Service Mileage: | 732379 KM | WT Service Date: | 20.11.1992 |
| US Service Mileage: | 631550 KM | A Service Date: | 16.02.1997 |

**04.08.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS - N05 TRACTION MOTOR REQUIRES CHANGEOUT A/C ARMATURE TO EARTH. CLYDE TO SUPPLY T/M ON 8/8. SENT OUT WITH'.
**04.08.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - N05 T/M CUT OUT'.
**09.08.1989** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - ARMATURE TO EARTH - N05 TRACTION MOTOR REPLACED UNDER WARRANTY.'.
**16.08.1989** Service defect: 'UN - ENGINE - SHUTTING DOWN -ENGINE PROTECTION UNIT CHANGED CHANGED A/C FAULTY.'.
**16.08.1989** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP A/C LOW WHEN LOAD TESTING.'.
**21.08.1989** Service defect: 'UN - CONTACTOR EP VALVES - E.P. VALVE REPLACED A/C LOW NOTE HORN.'.
**21.08.1989** Service defect: 'UN - OTHER BODY REPAIRS - TOILET DOOR LOCK REPAIRED.'.
**06.09.1989** Service defect: 'SW - ENGINE - 'PRE'-SERVICE - ELECTRICAL & MECHANICAL INSPECTION COMPLETED'.
**14.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - DRAIN PIPE REPAIRS - PIPES REMOVED,THREAD SEALANT APPLIED TO - PIPES,REPLACED PIPES,NO LEAK EVIDENT.'.
**29.09.1989** Service defect: 'UN - AUXILLARY MACHINES - FRIDGE FAULT - DELIVERY PIPE RE-POSITIONED.'.
**23.10.1989** Service defect: 'TW - LUBRICATING SYSTEM - NO.5.GEAR CASE HAD 4BAGS OF CRATER ADDED A/C GEAR CASE CAP MISSING.'.
**05.11.1989** Service defect: 'TS - MAIN GENERATOR - WIRE OFF SLIP RING (LUG BROKEN) A/C NO D18 OUTPUT.'.
**21.11.1989** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - EP 105 WIRE TO FRAME, & TRAIN LINE RESISTOR PANEL LIFTED. .'.
**25.11.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**30.11.1989** Service defect: 'TS - BLOCKED FILTERS - FILTERS BLOCKED - BY/PASS FUEL FILTERS REPLACED. - (SATURATED IN WATER)'.
**30.11.1989** Service defect: 'TS - ELECTRICAL MISC. MODULES - ROMPAK - LOGIC + EXCITATION ROMPAK CHANGE/OUT.'.
**30.11.1989** Service defect: 'TS - FUEL SYSTEM - * APPROX.205 LITRES WATER DRAINED OUT OF FUEL TANK *'.
**30.11.1989** Service defect: 'TS - FUEL SYSTEM - WATER IN FUEL SYSTEM - NO.8&12 INJECTORS SEIZED. - NEW SET OF INJECTORS INSTALLED.'.
**30.11.1989** Service defect: 'TS - FUEL SYSTEM INJECTORS - * INJECTORS * SCORED PLUNGERS & BARRELS. SPRAY TIPS SEIZED. (ALL INJECTORS TO RECON.)'.
**04.12.1989** Service defect: 'TS - ENGINE - LOCO SHUT/DOWN - NO.7 INJECTOR SEIZED. (WATER IN SYSTEM) - FULL SET RE-CONDITIONED INJECTORS FITTED'.
**04.12.1989** Service defect: 'TS - FUEL SYSTEM - FILTERS - FULL SET OF FUEL FILTERS INSTALLED A/C WATER. FUEL - ALL FUEL DRAINED OUT OF TANK A/C 2ND SHUT/DOWN.'.
**12.12.1989** Service defect: 'A - AUXILLARY MACHINES - CRACKED MOUNTS - AUX/GEN.MOUNTING PADS RE-WELDED.'.
**12.12.1989** Service defect: 'A - ENGINE - EXPERIMENTAL INTERMEDIATE PLATE CRABS FITTED.'.
**28.12.1989** Service defect: 'UN - OTHER BODY REPAIRS - CAB MOVEMENT - CHECKED AND FOUND REAR CAB SEAL MISSING BOTH SIDES AND DISPLACED AT BOTTOM. NIL STOCK OF'.
**28.12.1989** Service defect: 'UN - OTHER BODY REPAIRS - CAB MOVEMENT - SEALS. LOCO RELEASED AS TRAILING UNIT ON COAL TRAIN UNTIL REPLACEMENT SEAL RECEIVED.'.
**08.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. WORN BLOCKS - ALL BRAKE BLOCKS REPLACED & BRAKES ADJUSTED.'.
**12.01.1990** Service defect: 'UN - GENERAL ACCIDENT - DERAILMENT AT POWERHOUSE - BOGIES, GEAR CASES AND BRAKE STRAPS ETC CHECKED FOR DAMAGE. LOCO CHECKED OK.'.
**16.01.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - FOREIGN MATERIAL BUILD - VACUUMED AREA AROUND S.G.C.'.
**16.01.1990** Service defect: 'SW - OTHER BODY REPAIRS - EXCESSIVE CAB MOVEMENT - BOTH SEALS REPLACED. - (NOSE & CAB TO BODY SEALS)'.
**16.01.1990** Service defect: 'SW - RADIO REPAIR - RADIO - ????'.
**25.01.1990** Service defect: 'TW - BOGIE - BOGIE LUBE - 2 BAGS OF TMGL ADDED TO EACH GEAR CASE.'.
**25.01.1990** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH REPLACED A/C EX SPARE SUPPLIED FOR DL43.'.
**30.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - WORN THROAT PLATE - FIBRE WEAR PLATE REPLACED 'A'END.'.
**15.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS (4,5&6),OTHERS OK.'.
**22.02.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK - MICHIANA GASKET REPLACED.(BROKEN)'.
**22.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - CRACKED TANK - NEW FUEL TANK FITTED.'.
**03.03.1990** Service defect: 'UN - LUBRICATING SYSTEM - GEAR CASE - NO. 4 & 6 GEAR CASES TIGHTENED A/C LOOSE. LUBE CHECK - NO.6 (4BAGS),NO.4 (6BAGS) & NO.3 (4BAGS) OF'.
**07.03.1990** Service defect: 'B - MECHANICAL EQUIPMENT - AIR CONDITIONING UNIT REPLACED WITH UNIT FROM DL 45,A/C FAULTY.'.
**07.03.1990** Service defect: 'B - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES - TEST VALVE BRIDGES FITTED & TESTED OK.'.
**08.03.1990** Service defect: 'WT - BRAKE ADJUST MILE

END.SPEEDO TO RESET.TRACTION MOT'.

**08.03.1990** Service defect: 'WT - OR GEAR COVER TO CHECK A/C CRATER LEAKING.'.

**09.03.1990** Service defect: 'UN - AIR CONDITIONING - COUPLING FAILURE - UNIT EX.DL45 INSTALLED.'.

**13.03.1990** Service defect: 'UN - BOGIE - DERAILMENT REPAIRS - 'A'BOGIE.'.

**13.03.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT MOD. - NEW STYLE HEADLIGHT SWITCH FITTED BY CLYDE SERVICE STAFF.'.

**13.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIR - SHIMS ADDED TO CAB MOUNTS A/C ROUGH/RIDING.'.

**14.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - CROSSED PIPE WORK - W.H.B.FITTER RECTIFIED PROBLEM ON LOCO - (NO.3 & FM.1 PIPES CORRECTED AT BULKHEAD)'.

**16.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS TESTED.'.

**16.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES COCK'A'END REPLACED.BRAKES ADJUSTED.'.

**18.03.1990** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK - MICHIANNA FUEL FILTER 'O' RING REPLACED.'.

**28.03.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS(3,4&5),OTHERS OK.'.

**28.03.1990** Service defect: 'UN - BOGIE - MINIMUM REDUCTION TIME - WITH NEW PLATE 9 SECONDS. FULL SERVICE APPLICATION - ' ' ' 13 ' .'.

**28.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION CHOKE PLATE - MODIFIED CHOKE PLATE INSTALLED. - OPERATION CHECKED OK.'.

**28.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB MODS - COMPLETED.'.

**12.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.

**19.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SYSTEM - BRAKE SYSTEM CHECKED,UNABLE TO FAULT OPERATION.'.

**07.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS(1,2&3),5 BAGS(4,5&6).'.

**23.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END MAIN RES PIPE RENEWED A/C CRACKED.'.

**23.05.1990** Service defect: 'UN - TOILET PAN MISSING.'.

**02.06.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - S.G.C.CONTACTOR - CHANGED & TESTED OK.'.

**05.06.1990** Service defect: 'A - BOGIE - MODIFICATION - G/CASE MOD.COMPLETED.(G/CASES SHIMMED) LUBRICANT CHECK - 2 BAGS(1,3,4&5),3 BAGS(2&6).'.

**05.06.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(2),R.3(3). - L.4(2),R.4(4).'.

**05.06.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(1),R.5(5). - L.6(0),R.6(3).'.

**05.06.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(3),R.1(6). - L.2(1),R.2(3+).'.

**25.06.1990** Service defect: 'TS - CONTACTOR WELDED - S.G.C.CONTACTOR WELDED - REPLACED. O.C.C.& SHORTED DIODES - CR2A,CR2B & CR2C REPLACED.'.

**25.06.1990** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR MOD.- COMPLETED.'.

**08.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 4 BAGS ADDED TO EACH CASE.'.

**04.08.1990** Service defect: 'UN - BOGIE - BOGIES ROTATED.'.

**26.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**06.09.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 5 BAGS(6),6 BAGS(3,4&5),7 BAGS(1&2).'.

**06.09.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(3),R.1(0). - L.2(5),R.2(0).'.

**06.09.1990** Service defect: 'C - STARTER MOTOR - STARTER/MOTOR MOD - COMPLETED.'.

**22.09.1990** Service defect: 'UN - BODY REPAIRS - ACCIDENT - NOSE DAMAGE - TRIP LEVERS REPLACED.(TAKEN FROM DL38) - NOSE REPAIR & FOG/LIGHT REPAIRS REQUIRED.'.

**22.09.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 7 BAGS(4,5&6),OTHERS OK.'.

**22.09.1990** Service defect: 'UN - BROKEN PIPE - BROKEN HOSES - O/SIDE FRONT CONTROL HOSES REMOVED. - (NEW PIPES REQUIRED)'.

**22.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO U/S - GENERATOR & CABLE REPLACED.(TAKEN FROM DL38)'.

**22.09.1990** Service defect: 'UN - VIGILANCE - VIGILANCE - CUT/OUT. * LOCO CLEANED/UP CAMELS AT IMPADNA,EXTENSIVE NOSE DAMAGE *'.

**22.09.1990** Service defect: 'UN - FOG LIGHTS,COUPLING LIGHTS ETC TO REPAIR.'.

**24.09.1990** Service defect: 'SW - VIGILANCE - VIGILANCE - OPERATION CHECKED OK.'.

**24.09.1990** Service defect: 'SW - MINOR REPAIRS TO NOSE OF LOCO. (24/9)'.

**24.09.1990** Service defect: 'SW - FOG/LIGHT O/SIDE REBUILD,AIR PIPES TO REPLACE.'.

**26.09.1990** Service defect: 'SW - COOLING SYSTEM - COOLING SYSTEM - ENGINE WATER CHANGED A/C LAB REPORT.'.

**26.09.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRK/PIPE DAMAGE - O/SIDE CONTROL PIPES & HOSES RE-FITTED. - PIPE BRACKETS STRAIGHTENED.'.

**26.09.1990** Service defect: 'SW - OTHER BODY REPAIRS - NOSE JOB - COMPLETED.(O/SIDE FOG/LIGHT STRAIGHTENED)'.

**20.10.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.

**20.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LOOSE VALVE - IND/BRK VALVE TIGHTENED.'.

**20.11.1990** Service defect: 'UN - ENGINE - HUNTING -'.

**14.12.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 6 BAGS(2,3&5),7 BAGS(1,4&6).'.

**14.12.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(1). - L.2(5),R.2(0).'.

**23.01.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - W.H.B. MODS COMPLETED AS PER M.E. SPEC 7553.'.

**03.02.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - ENGINE ROOM LIGHT HOLDER SHORTED OUT,WIRES

DISCONNECTED AS NIL STOCK.'.
**03.02.1991** Service defect: 'UN - FRONT LEFT FOG LAMP BROKEN-NIL STOCK,AUSTRACK NOT'.
**03.02.1991** Service defect: 'UN - WORKING.'.
**08.02.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - FOG/LIGHT MISSING - O/SIDE FOG/LIGHT REPLACED.'.
**08.02.1991** Service defect: 'SW - RADIO REPAIR - AUSTRAC FAULT - REPAIRED.'.
**08.02.1991** Service defect: 'SW - LOCO RE-ROSTERED TO FUEL TANK REPAIR ON 18/2/91.'.
**08.02.1991** Service defect: 'SW - (8/2)'.
**20.02.1991** Service defect: 'SW - FUEL SYSTEM - SPLIT FUEL TANK - TANK DEGASSED,RE-WELDED CHECKED OK. - (SPLIT UNDER TANK)'.
**04.03.1991** Service defect: 'UN - GENERAL - AIR FRIDGE REPAIRED.'.
**14.03.1991** Service defect: 'B - FUEL SYSTEM INJECTORS - COPPER WASHERS REPLACED ON FUEL INJECTORS A/C FUEL LEAKS.'.
**14.03.1991** Service defect: 'B - LUBRICATING SYSTEM - FUEL DILUTION - OIL CHANGED.'.
**14.03.1991** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - 'A'END LOW NOTE HORN REPLACED,A/C BROKEN TRUMPET.REMOVED FROM DL46.'.
**14.03.1991** Service defect: 'B - RADIATOR/PRESSURISING FAN - FAN SOCKET REPLACED,A/C WORN,RAD/FAN REPLACED.'.
**23.04.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC PROBLEM - LOCO CHECKED OK IN DEPOT. - (COUPLED TO CL16&601 SUSPECT TRAIN/LINE)'.
**23.04.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - BROKEN PLUNGER SPRING - NO.1 INJECTOR REPAIRED & REPLACED. NEEDLE & SEAT FAULTY'.
**23.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - D/S FUEL GAUGE U/S - GLO-ROD REPOSITIONED,GAUGE OK.'.
**15.05.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON WHEELS CHECKED OK,WHEELS PROFILED OK.'.
**15.05.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED,LEVEL CHECKED WHEN RUNNING.'.
**15.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 30 CDW DRIVERS BRAKE VALVE REMOVED AND REPLACED.'.
**04.06.1991** Service defect: 'UN - BOGIE - EXCESS TRAVEL - WORN BLOCKS REPLACED & BRAKE ADJUSTED.'.
**13.06.1991** Service defect: 'A - GENERAL - OBS/SIDE DOOR HANDLE REPAIRED.'.
**13.06.1991** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - BCP & BPP HASLER TRANSDUCERS REPLACED,A/C FAULTY.TESTED OK.'.
**22.07.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO/BRAKE - MODIFIED BRAKE/VALVE INSTALLED.(FRICTION PAD)'.
**24.07.1991** Service defect: 'SW - DYNAMIC BRAKE - MODIFICATION - DYN/BRK FAN VENT MOD.COMPLETED.'.
**24.07.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - ALIGNMENT - COMPRESSOR ALIGNMENT COMPLETED. - NEW RUBBERS FITTED TO COUPLINGS.'.
**10.09.1991** Service defect: 'D - ELECTRICAL MISC. GROUND RELAY - NO 1 T/MOTOR PIGTAILS FRAYED,REPLACED ALL BRUSHES,BLOWN OUT INSULATORS & BINDER WASHED & WIPED.INCH LONG METAL OBJECT'.
**10.09.1991** Service defect: 'D - GENERAL - AIR FRIDGE DRAIN UNBLOCKED & NEW FILTER FITTED.AIR FRIDGE WORKING OK.BLINDS REPAIRED.OBS SIDE SEAT REPLACED.'.
**10.09.1991** Service defect: 'D - S/MOTORS & AIR DRYERS TO CHANGE NEXT SERVICE,A/C'.
**10.09.1991** Service defect: 'D - NIL STOCK MPC.10/9.'B'END DRAW GEAR PLATE TO RENEW'.
**10.09.1991** Service defect: 'D - 10/9.'.
**15.10.1991** Service defect: 'UN - 8 FUSES BLOWN IN ALTERNATOR.FOR & REV TRANSFER'.
**15.10.1991** Service defect: 'UN - SWITCH MOTOR GETTING STUCK IN REV & TRIPPING'.
**15.10.1991** Service defect: 'UN - BREAKER.PG TO REPAIR.'.
**25.10.1991** Service defect: 'SW - ALTERNATOR - DIODES/FUSES - MODIFICATION COMPLETED.'.
**25.10.1991** Service defect: 'SW - BOGIE - FLANGE LUBRICATORS - INSTALLED.'.
**25.10.1991** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN PIN - MODIFICATION COMPLETED.'.
**11.12.1991** Service defect: 'A - ELECTRICAL MISC. MODULES - POWER SUPPLY MODULE REPLACED & TESTED OK.'.
**11.12.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDING FILTER REPAIRED.'.
**11.12.1991** Service defect: 'A - REAR WEAR PLATE TEMP REPLACED WITH MILD STEEL.NEW'.
**11.12.1991** Service defect: 'A - NON-METALLIC WEAR PLATES ORDERED.'.
**10.02.1992** Service defect: 'UN - CONTACTOR EP VALVES - SANDING MAGNET VALVE CHANGED.'.
**10.02.1992** Service defect: 'UN - GENERAL - D/SIDE SEAT REPAIRED.'.
**10.02.1992** Service defect: 'UN - OTHER BODY REPAIRS - FUEL TANK PLUG REPAIRED.'.
**21.02.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO2 AND 3 WHEEL SETS RECONECTED.'.
**21.02.1992** Service defect: 'SW - ENGINE CYLINDER HEADS - NO 5.CYLINDER HEAD ELBOW SEALS REPLACED.'.
**21.02.1992** Service defect: 'SW - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.
**12.03.1992** Service defect: 'B - ENGINE - FUEL RACKS ADJUSTED.'.
**12.03.1992** Service defect: 'B - GENERAL - O/SIDE WIPER REPAIRED.COMPRESSOR AND ENGINE COUPLING RUBBERSREPLACED.D/SIDE SEAT REPLACED.'.
**12.03.1992** Service defect: 'B - MECHANICAL EQUIPMENT - 'B'END DRAW GEAR PLATE REPLACED.'.
**12.03.1992** Service defect: 'B - AIR CONDITIONER TO REPAIR.'.
**16.03.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - DATA LOGGER REPLACED BUT FOUND FAULTY.-OLD DATA LOGGER RE-INSTALLED AND NEW BATTERY TO FIT AND TEST.'.
**01.06.1992** Service defect: 'A - ENGINE WATER LEAK - L/H PIPE TO AFTERCOOLER REPLACED,A/C WATER LEAK.'.
**01.06.1992** Service defect: 'A - GENERAL - BOTH SEATS REPLACED.OBS/SIDE W/SCREEN WASHER TUBE REPLACED.'.
**01.06.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR

ADJUSTED,A/C COMP OVERCHARGING.'.

**01.06.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - 'A' END HORN REPLACED.'.

**29.07.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - OBS.SIDE RADIATOR REPLACED.'.

**29.07.1992** Service defect: 'UN - FUEL SYSTEM - FUEL TANK REPLACED.'.

**17.08.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO.7 CYLINDER HEAD REPLACED A/C CRACKED FROM TOP OF HEAD TO TEST COCK PORT. LOCO LOAD TESTED OK.'.

**26.08.1992** Service defect: 'C - BOGIE - NO.5 GEARCASE BOLTS TIGHTENED.'.

**25.11.1992** Service defect: 'A - COOLING SYSTEM - RHS INTERCOOLER PLATE LEAKING WATER, GASKET REPLACED. LOAD TESTED TO 2900HP.'.

**25.11.1992** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - A END OBS/SIDE UNCOUPLING ROD REPAIRED, A/C BENT/NOT WORKING'.

**25.11.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L6 SANDING HOSE,NOZZLE & BRACKET REPLACED, A/C MISSING.'.

**25.11.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - A END OBS/SIDE B/PIPE HOSE SEAL REPLACED. B END OBS/SIDE M/RHOSE REPLACED.'.

**16.02.1993** Service defect: 'B - DYN BRAKE FAN MOTOR TO MONITOR A/C COM. FUEL PUMP'.

**16.02.1993** Service defect: 'B - MOTOR TO MONITOR A/C WHOLE COM BLACK.16/2.'.

**12.03.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOGIES ROTATED A/C FLANGE WEAR.'.

**12.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO OPTICAL SENSOR REPLACED.'.

**05.05.1993** Service defect: 'A - BOGIE - R6 FLANGE LUBRICATOR HOSE REPLACED.'.

**05.05.1993** Service defect: 'A - ENGINE PROTECTION - ENGINE PROTECTION DEVICE BOLT REPLACED, A/C BROKEN.'.

**05.05.1993** Service defect: 'A - ENGINE ROOM - ENGINEROOM HAND RAIL REWELDED.'.

**05.05.1993** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADER HOSE REPLACED, A/C LEAKING.'.

**05.05.1993** Service defect: 'A - PEE PIPE - NO 2 PEE PIPE REPLACED.'.

**24.06.1993** Service defect: 'SW - LUBRICATING SYSTEM - MAIN OIL LUBE PUMP CHANGE COMPLETED & TESTED.'.

**24.06.1993** Service defect: 'SW - RADIATOR/PRESSURISING FAN - FAN CONTACTORS REPLACED & CHECKED OK.'.

**02.07.1993** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR UNIT REPLACED,TESTED OK.'.

**02.07.1993** Service defect: 'UN - EXHAUST - EXHAUST JOINER TO TURBO REPLACED,A/C BLOWN.'.

**02.07.1993** Service defect: 'UN - GENERAL - OBS SEAT HEAD REST REPLACED.'.

**02.07.1993** Service defect: 'UN - NO FAULT FOUND - LOCO TESTED FOR DYN/BRAKE FAULT,COULD NOT FAULT,LOAD TESTED OK & TEST RUN OK.'.

**23.07.1993** Service defect: 'F - ELECTRICAL MAINTENANCE -WIRING - RELUGGED HCP WIRE ON 30 BOARD.'.

**23.07.1993** Service defect: 'F - ELECTRICAL MISC - RADAR TRANSCEIVER - NEW RADAR REPLACED, A/C EXISTING ONE USED ON ANOTHER LOCO.'.

**23.07.1993** Service defect: 'F - EXHAUST - EXHAUST STACK GASKET CHANGED.'.

**23.07.1993** Service defect: 'F - GENERAL - SEAT REPLACED.'.

**23.07.1993** Service defect: 'F - MECHANICAL EQUIPMENT SANDING GEAR - R3 SAND HOSE REPAIRED.'.

**23.07.1993** Service defect: 'F - MECHANICAL MAINTENANCE - AIR BRAKE - HASLER BRAKE PIPE SENSOR RECONNECTED.'.

**24.08.1993** Service defect: 'SW - BOGIE - RECONDITIONED BOGIES FITTED. FLANGE LUBE NOZZLE BRACKETS MODIFIDE.'.

**24.08.1993** Service defect: 'SW - ENGINE - TEST COCKS 2, 3, 4, 5 AND 6 GOUGED AND WELDED A/C CRACKED.'.

**24.08.1993** Service defect: 'SW - LUBRICATING SYSTEM - ALL OIL FILTERS CHANGED.'.

**24.08.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO SENSOR REPLACED.'.

**24.08.1993** Service defect: 'SW - VIGILANCE - VIG. BOX REPLACED A/C ORIGINAL USED FOR DL47.'.

**25.08.1993** Service defect: 'UN - BOGIE - NO.3 AXLE BOX FILLER PLUG REPLACED.'.

**25.08.1993** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - R2 SPRINGS RE-LOCATED.'.

**28.09.1993** Service defect: 'UN - DYNAMIC BRAKE - GRIDS CHECKED OK, BRAKE BLOWER OK, NO RUB THROUGHS. P=10KOHMD/B=5KOHMS, A/C GROUND RELAY OCCURRED. DYN/BRAKE COVER FOUND'.

**28.09.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO 2 + 4 T/M'S HAD SMALL FLASH.'.

**09.10.1993** Service defect: 'A - OTHER BODY REPAIRS - BRAKING BLOWER LID MODIFIED A/C RUBBING ON BLOWER TERMINALS CAUSING AN EARTH ON POWER.'.

**09.10.1993** Service defect: 'A - SOME T/M BRUSH HOLDER BOXES STARTING TO WEAR.9/10.'.

**04.11.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER REPLACED, CHECKED OK.'.

**04.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FRP PANEL - LOOSE CONNECTIONS RESOLDERED ON RESISTORS. PANELPUT BACK IN.'.

**04.11.1993** Service defect: 'UN - TRACTION MOTOR - NO 4 T/MOTOR REPLACED, A/C ARMATURE 80 OHMS, SHOULD BE 25OHMDIRECTION TESTED OK.'.

**01.12.1993** Service defect: 'UN - AIR CONDITIONING - AIR/CON UNIT CHANGED, TESTED OK.'.

**01.12.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER TRIP LEVERS STRAIGHTENED.'.

**05.01.1994** Service defect: 'B - GENERAL - FRIDGE FLEXIBLE PIPE REPLACED, A/C DAMAGED.'.

**05.01.1994** Service defect: 'B - OTHER BODY REPAIRS - DOOR LATCH TO 'AC' CABINET REPLACED.'.

**24.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 135PSI SAFETY VALVE REPLACED, A/C BLOWING CONTINUOUSLY. BRAKE VALVE TAKEN FROM BL27.'.

**10.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO FAULT - OPTICAL SENSOR CHANGED AND WIRING ALTERED.'.

**10.02.1994** Service defect: 'UN - ENGINE - AIR DRYER INLET VALVE SEAL REPLACED, A/C AIR BLOW.'.

**18.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - OPTICAL SENSOR REPLACED IN SPEEDO, A/C FLUCTUATING. SPEEDO TESTED OK.'.
**25.03.1994** Service defect: 'A - CONTACTOR MISCELLANEOUS - COMPLETE SGC CONTACTOR CHANGED, A/C COIL BURNT OUT.'.
**25.03.1994** Service defect: 'A - ENGINE - PLATES FITTED TO ENGINE HATCH, A/C LOOSE.'.
**25.03.1994** Service defect: 'A - ENGINE AIR FILTERS - AIR FILTERS CHANGED, A/C DIRTY.'.
**25.03.1994** Service defect: 'A - LUBRICATING SYSTEM - OIL PRESSURE GAUGE IN ENGINE ROOM REPAIRED.'.
**25.03.1994** Service defect: 'A - D/B BLOWER MOTOR TO MONITOR, A/C BLACK SEGMENTS ON'.
**25.03.1994** Service defect: 'A - COMM.25/8.'.
**10.05.1994** Service defect: 'TS - TRACTION MOTOR - NO 1 T/MOTOR REPLACED, A/C OPEN CIRCUIT - CABLE BLOWN BETWEEN 12 O'CLOCK AND 3 O'CLOCK BRUSH HOLDER. T/M TESTED OK'.
**13.05.1994** Service defect: 'UN - GENERAL - WATER DRAINED FROM AIR FRIDGE.'.
**13.05.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED.'.
**13.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - CAB (OBS SIDE) SIDE MOUNTS SHIMMED, A/C SIDE SLAP.'.
**07.06.1994** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE INTERLOCK PROBLEM - BRAKES VERY SLOW TO RELEASE CAUSING FLAT WHEELS. DBI (MAGNET VALVE) REPLACED.'.
**07.06.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LOCO STARTED (COLD LOCO) AND BRAKE TEST COMPLETED.'.
**21.06.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - BCP TRANSDUCER PLUG LOOSE AND NOT MAKING CONTACT, PLUG PUSHED IN FULLY.'.
**21.06.1994** Service defect: 'A - EXHAUST - EXHAUST EXPANSION JOINT BETWEEN INLET SCREEN AND TURBO REPLACED.'.
**21.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMP AIR/FILTER HOOUSING REPAIRED.'.
**21.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - UNCOUPLING RODS STRAIGHTENED 'A'END.'.
**21.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L2 SANDER UNBLOCKED.'.

**DL 49**

Details: locomotive 'DL 49 D' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 22.09.1989
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 21.03.1997 | | |
| Last Lift: | 18.12.1993 | | |
| SW Service Mileage: | 185508 KM | SW Service Date: | 12.10.1996 |
| A Service Mileage: | 241753 KM | A Service Date: | 21.03.1997 |
| B Service Mileage: | 177595 KM | B Service Date: | 04.10.1996 |
| C Service Mileage: | 1101976 KM | C Service Date: | 07.12.1994 |
| D Service Mileage: | 453968 KM | D Service Date: | 07.11.1991 |
| F Service Mileage: | 934140 KM | A Service Date: | 18.12.1993 |
| WT Service Mileage: | 732179 KM | WT Service Date: | 26.02.1993 |
| US Service Mileage: | 210337 KM | A Service Date: | 08.11.1996 |

**22.09.1989** Service defect: 'UN - ENGINE - DELIVERY CHECK - MECHANICAL & ELECTRICAL CHECK COMPLETED.'.
**22.09.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - FLASH/OVER NO.1 T/MOTOR - BRUSHES CHANGED. - PIG/TAILS BURNT & BROKEN.'.
**25.09.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - * CAUSE * 'O'RING ON PROTECTION UNIT WRONG TYPE.'.
**25.09.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - OIL LEAK ON UNIT - PROTECTION UNIT REPLACED. - (LEAKING OUT OF CRANK/CASE BUTTON)'.
**14.10.1989** Service defect: 'UN - CONTACTOR WELDED - WELDED CONTACTOR - S.G.C.CONTACTOR EX.DL42 INSTALLED. - LOCO FAILED AT PARKESTON.(5032 KMS)'.
**14.10.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - ALL T/MOTORS CLEANED/OUT. - (BLASTING SAND REMOVED FROM ALL MOTORS)'.
**14.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MODIFICATION - JUMP/START SOCKET MODIFICATION COMPLETED.'.
**14.10.1989** Service defect: 'UN - TRACTION MOTOR - T/MOTORS - CLEANED/UP OK.'.
**25.10.1989** Service defect: 'TS - CONTACTOR MISCELLANEOUS - SGC CONTACTOR INSTALLED &SET UP,A/C ADJUSTMENT.'.
**25.10.1989** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK - N05 POWER ASSY REPLACED A/C WATER LEAK. POWER ASSY PRESSURE TESTED,TOP SOLDER JOINT ON LINER LEAKING.'.
**25.10.1989** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK - NO10 CYL HEAD CHANGED A/C WATER IN JACKING OFF HOLE. CYL HEAD PRESSURE TESTED IN HOT WATER TANK OK.'.
**01.11.1989** Service defect: 'TS - ENGINE CYLINDER HEADS - NO.4.HEAD OFF (88A2321) ON (87B2766),NO.8.HEAD OFF(88A2320) ON (87B0275),BOTH REPLACED A/C VALVE SPINNING COLLETTS.'.
**01.11.1989** Service defect: 'TS - ENGINE WATER LEAK - NO.5.WATER JUMPER LINE REPLACED A/C 'O' RING LEAKING.'.
**01.11.1989** Service defect: 'TS - VALVE BRIDGE/LASH ADJUSTER - INTERMEDIATE CRAB PLATES & LASH ADJUSTERS CHANGED A/C E.M.D.INSTRUCTION. TEST LASH ADJUSTER NOS P49 - P96 FITTED.'.

**04.11.1989** Service defect: 'UN - ENGINE - ENGINE SHUTDOWN - ENGINE PROTECTION UNIT CHANGED A/C FAULTY.LOW PRESSURE SPACER RESEALED WITH SILASTIC AND TESTED OK A/C'.
**04.11.1989** Service defect: 'UN - ENGINE - ENGINE SHUTTING DOWN ON LOW WATER.'.
**13.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLAT WHEEL CHECK COMPLETED,OK FOR TRAFFIC.'.
**18.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - 8BAGS CRATER ADDED TO ALL GEAR CASES.'.
**18.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - SHUTTING DOWN - PROTECTION UNIT & RADIATOR CAP REPLACED. ENG PROT UNIT TESTED OK ON TEST BENCH.'.
**24.11.1989** Service defect: 'UN - CONTACTOR WELDED - RECTIFIERS - G/RELAY RECTIFIER BANK REPLACED.EX.DL37 USED. - 6 RECTIFIERS ON BANK H.R.JOINTED.'.
**24.11.1989** Service defect: 'UN - CONTACTOR WELDED - RV.FLASHED - FF1 CONNECTION ON RV.CONTACTOR FLASHED TO FRAME - CONTACTOR CLEANED/UP'.
**24.11.1989** Service defect: 'UN - ENGINE - 'PRE-SERVICE'- ELECTRICAL & MECHANICAL CHECKS COMPLETED.'.
**24.11.1989** Service defect: 'UN - RADIO REPAIR - MODIFICATION - RADIO UNIT REPOSITIONED.'.
**28.11.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - NO SANDERS - IOL 2 SER.NO.88-G-02851 REMOVED.'.
**28.11.1989** Service defect: 'UN - ENGINE - - ENG.WATER PRESSURE 3-5 LBS. - VENT PIPES CHECKED.'.
**28.11.1989** Service defect: 'UN - ENGINE - SHUT/DOWN TEST - BALANCING WATER PIPE FROM W/PUMP TO DELTA - PROTECTION DEVICE REMOVED A/C SHUT/DOWN.'.
**28.11.1989** Service defect: 'UN - ENGINE - SHUTTING DOWN - LOCO SELF LOAD/TEST COMPLETED. - NO FAULT OCCURED.'.
**12.12.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - DAMAGED CABLE - FF1 CABLE REPLACED.'.
**12.12.1989** Service defect: 'UN - ELECTRICAL MISC. MODULES - NO POWER - IOL3 MODULE REPLACED.'.
**12.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - LEAK REPAIRED ON EQUALISING RESERVOIR PIPING.'.
**28.12.1989** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS TMGL ADDED TO EACH GEARCASE.'.
**28.12.1989** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE - SAFETY VALVE RESET TO 930 KPA.'.
**20.01.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(3),4 BAGS(4,5&6),8 BAGS(1),NIL(2).'.
**20.01.1990** Service defect: 'TW - OTHER BODY REPAIRS - SEAT BASE CRACKED - D/SIDE SEAT BASE RE-WELDED.'.
**24.01.1990** Service defect: 'SW - ELECTRICAL MISC. MODULES - ROMPAK - EXCITATION ROMPAK CHANGED/OUT. (IN 00422) - (ELIMINATES SANDING AT HIGH SPEED) (OUT 00996)'.
**24.01.1990** Service defect: 'SW - OTHER BODY REPAIRS - CAB VIBRATIONS - BOTH SEALS REPAIRED.(CAB/BODY + NOSE SEAL)'.
**01.02.1990** Service defect: 'UN - OTHER BODY REPAIRS - ROUGH RIDING -'.
**07.02.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - AUSTRAC MODS.NEW RADAR BRACKET (MODIFIED).REMOUNT RADAR UNITMOUNT AUSTRAC AERIAL.'.
**07.02.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - REPAIR SPEEDO CABLE.PULLED OUT OF TERMINAL BLOCK DURING WASH'.
**12.02.1990** Service defect: 'A - AIR CONDITIONING - MOUNTS U/S - AIR/COND.COMPRESSOR MOUNTS REPLACED.'.
**12.02.1990** Service defect: 'A - AUXILLARY MACHINES - AIR/FRIDGE - OIL/MIST FILTER FITTED.'.
**12.02.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(1),R.3(0). NIL. - L.4(3),R.4(4). ''.
**12.02.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(0). ' - L.6(2),R.6(2). ''.
**12.02.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4).R.1(4). TMGL 6 BAGS ADDED. - L.2(2),R.2(2). 2 ' ' .'.
**03.03.1990** Service defect: 'UN - LUBRICATING SYSTEM - LUBE CHECK - NO.1 GEAR CASE (4 BAGS ADDED).'.
**03.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SEAT REPLACED A/C FAULTY.'.
**05.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE - ELECT CABINETS & GRIDS OK.CONTACTORS OK. NO FAULT FOUND ON TEST RUN.'.
**08.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - CLYDE MOD - CAB SEALS REPLACED.'.
**15.03.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - PROTOTYPE AUSTRAC EQUIPMENT FITTED IN NOSE OF LOCO.'.
**27.03.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. FLATS 'A' BOGIE - CHECKED OK.'.
**27.03.1990** Service defect: 'UN - BROKEN PIPE - SPLIT PIPE - AIR/BOX PIPE REPLACED.'.
**27.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - WATER LEAK - WATER LINE TO L.P.LINER CHANGED.'.
**27.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION CHOKE PLATE - MODIFIED CHOKE PLATE INSTALLED. - OPERATION CHECKED OK.'.
**27.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MINIMUM REDUCTION TIME - WITH NEW PLATE 9 SECONDS. FULL SERVICE APPLICATION - ' ' ' 17 ' .'.
**27.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - FLUSH VALVE - REPLACED.'.
**31.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**09.04.1990** Service defect: 'UN - RADIO REPAIR - REPLACED ANTENNA COAX & OK.'.
**19.04.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAILURE - OPTICAL SPEEDO SENSOR REPLACED. - CABLE SHORTENED & SPEEDO READING ADJUSTED.'.
**24.04.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - SPEEDO MEMORY MODULE REPLACED.'.
**09.05.1990** Service defect: 'SW - GENERAL - UNABLE TO FIT NEW STYLE TOILET.OLD ONE REINSTALLED.'.

**09.05.1990** Service defect: 'SW - TOILET TO REPLACE WITH CORRECT SIZE'.
**10.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RCORD - L.1(4),R.1(4). - L.2(2),R.2(2).'.
**10.05.1990** Service defect: 'B - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES - NO1&10 REPLACED.'.
**14.05.1990** Service defect: 'UN - COOLING SYSTEM - COPPER WATER PIPE TO COMPRESSOR REPAIRED WITH WADE FITTING.'.
**20.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**31.05.1990** Service defect: 'UN - GENERAL - AUSTRAC MODS COMPLETED.W/SCREEN WIPER CONTROLS MOVED.DISPLAYPANEL MOVED.'.
**04.06.1990** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - WATER LEAK - WATER INLET PIPE ON COMPRESSOR REPLACED.'.
**11.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(2-6),4 BAGS(1).'.
**16.06.1990** Service defect: 'UN - EXHAUST - BLOWN GASKET - FRONT EXPANSION JOINT REPLACED.'.
**16.06.1990** Service defect: 'UN - RADIO REPAIR - RADIO - COMMUNICATIONS CHECKED OPERATION.'.
**21.06.1990** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATOR MOD - COMPLETED.'.
**21.06.1990** Service defect: 'SW - OTHER BODY REPAIRS - SPLIT FUEL TANK - TANK DE-GASSED & RE-WELDED.'.
**04.07.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO FAILURE - TURBO REPLACED.(SERIAL NO.87-C1-1020 EX.DL38(THREW BLADE)'.
**09.07.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**09.07.1990** Service defect: 'SW - OTHER BODY REPAIRS - 'GHAN' BRACKETS WELDED ON LOCO.'.
**30.07.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC FAULT -'.
**08.08.1990** Service defect: 'A - BOGIE - LUBRICANT CHECK - 5 BAGS(1,2,4,5&6),6 BAGS(3).'.
**08.08.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(2),R.3(0). - L.4(3),R.4(3).'.
**08.08.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(0). - L.6(0),R.6(0).'.
**08.08.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(4). - L.2(1),R.2(2).'.
**08.08.1990** Service defect: 'A - OTHER BODY REPAIRS - HATCH MISSING - O/SIDE REAR HATCH FITTED.'.
**08.08.1990** Service defect: 'A - RADIATOR/PRESSURISING FAN - BURNT/OUT FAN - NO.3 RADIATOR FAN REPLACED. - FUSES REPLACED A/C BLOWN.'.
**10.08.1990** Service defect: 'UN - DYNAMIC BRAKE - - LOCO TESTED OK,PLUG & PINS OK.'.
**10.08.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC NOT WORKING - IOL.6 REPLACED WITH IOL.7,TESTED OK. - ILO.6 REPLACED IN ORIGINAL POSITION.'.
**03.09.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - - (S.G.C.FROM DL46 INSTALLED) - 1 NO.DIODE/FUSE REPLACED.(BLOWN)'.
**03.09.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - 3 NO.RECTIFIERS IN G.R.CIRCUIT REPLACED. - S.G.C.REPLACED.(FLASHED/OVER)'.
**10.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORN OPERATING KNOB REPLACED.'.
**13.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - SPEEDO DRIVE REPAIRED.(RIVET SHEARED)'.
**22.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL LEVELS CHECKED OK.'.
**20.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**26.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C LONG TRAVELS.'.
**09.11.1990** Service defect: 'C - BOGIE - LUBRICANT CHECK - 2 BAGS(1&2),4 BAGS(3,4,5&6).'.
**09.11.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - - L.3(0) ,R.3(1). - L.4(3.5),R.4(4).'.
**09.11.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - - L.5(0) ,R.5(0). - L.6(1) ,R.6(0).'.
**09.11.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(3.5),R.1(5). - L.2(2.5),R.2(0).'.
**09.11.1990** Service defect: 'C - OTHER BODY REPAIRS - CAB BUMP STOP MOD.- COMPLETED. HAND RAIL MOD. - COMPLETED & OTHER MODS COMPLETED.'.
**09.11.1990** Service defect: 'C - VALVE BRIDGE/LASH ADJUSTER - EMD TEST LASH ADJUSTERS - NOS3,8,&12 TEST VALVE BRIDGES REMOVED FOR CLYDE FOR SENDING TO EMD. AN VALVE BRIDGES FIT.'.
**01.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**20.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.
**20.12.1990** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - - L.3(0),R.3(0). - L.4(5),R.4(4).'.
**20.12.1990** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - - L.5(0),R.5(1). - L.6(0),R.6(0).'.
**20.12.1990** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(3),R.1(5.5). - L.2(0),R.2(2.5).'.
**09.01.1991** Service defect: 'UN - ALTERNATOR - * LOAD TESTED OK AFTER REPAIRS COMPLETED,3000 H/P *'.
**09.01.1991** Service defect: 'UN - ALTERNATOR - ALTN CHECK & SHUT/DOWN CIRCUIT CHECK. * 9 DIODES & 8 FUSES REPLACED IN AR11 *'.
**08.03.1991** Service defect: 'SW - DYNAMIC BRAKE - MODIFICATION - DYNAMIC FAN VENT MOD.COMPLETED.'.
**08.03.1991** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO CHANGE - COMPLETED. SERIAL NO.90-J3-6033.'.
**08.03.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - MODIFICATION - AIR/COMPRESSOR MOD.COMPLETED.'.
**02.04.1991** Service defect: 'UN - GENERAL - TOILET REPAIRS- CLEANED BLOCKAGES,RESET TOILET AS PER MANUAL'.
**02.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN CHECKED OK.'.
**23.04.1991** Service defect: 'TS - LUBRICATING SYSTEM - CRACKED MICHIANNA TANK WELDED.'.
**23.04.1991** Service defect: 'TS - VIGILANCE - CONSTANT

BLOW - P2A VALVE REMOVED AND CLEANED. VIG CHECKED OK.'.

**24.05.1991** Service defect: 'UN - GENERAL - REPLACED TOILET FLUSHER VALVE EX DL46,A/C PIECES MISSING.'.

**15.06.1991** Service defect: 'UN - GENERAL - TOILET UNIT REPLACED & TESTED OK.'.

**08.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESEVOIR SAFETY VALVE REPLACED, A/C SNAPPED IN FITTING.'.

**16.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO/BRAKE - MODIFIED BRK/VALVE INSTALLED.(FRICTION PAD)'.

**16.07.1991** Service defect: 'UN - TO BE RE-ROSTERED FOR COMPRESSOR ALIGNMENT. (16/7)'.

**16.07.1991** Service defect: 'UN - TO BOXES MISSING,TAKEN FOR AL23,BOOKED 12/7 (16/7)'.

**06.08.1991** Service defect: 'A - ALTERNATOR - 1 DIODE & 1 FUSE REPLACED IN ALTERNATOR, A/C BLOWN.'.

**06.08.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - J1 RELAY VALVE,D/B MAGNET VALVE,C2W RELAY VALVE & W TYPE TRIPLE VALVE CHANGED, A/C FAULTY.'.

**06.08.1991** Service defect: 'A - TRACTION MOTOR - BLOWER MOTOR FAN CONTROL REPAIRED, A/C BOOKING IN L8 BOOK.'.

**16.08.1991** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE.'.

**16.08.1991** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - NO GLASS - FLOW METER GLASS REPLACED.'.

**19.08.1991** Service defect: 'UN - NO FAULT FOUND - LOW WATER SHUT/DOWN - ENGINE BLOCK INSPECTED,NO LEAK EVIDENT - PROTECTION DEVICE CHANGED.'.

**10.09.1991** Service defect: 'UN - COOLING SYSTEM - WATER DIFFERENTIAL PIPE REMOVED.'.

**10.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - DOOR HANDLE OBS/SIDE REPLACED.'.

**30.09.1991** Service defect: 'SW - AIR CONDITIONING - AIRCONITIONER REPLACED WITH RECON UNIT.'.

**07.11.1991** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER CHANGED.'.

**07.11.1991** Service defect: 'D - PEE PIPE - NO 10 PEE PIPE REPLACED.'.

**07.11.1991** Service defect: 'D - FUEL TANK CRACKED ADJACENT TO PATCH RHS.GEARCASE'.

**07.11.1991** Service defect: 'D - SEAL L2 DAMAGED,MONITOR.7/11.'.

**16.12.1991** Service defect: 'TS - NO FAULT FOUND - NO 3 T/MOTOR FAULT - TRIAL RUN DONE, NO FAULT FOUND.'.

**04.02.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - REV SANDING U/S WIRE OFF AT SOLENOID,REPLACED.'.

**04.02.1992** Service defect: 'A - MORGANITE TEST BRUSHES FITTED TO ALL T/MOTORS,TO'.

**04.02.1992** Service defect: 'A - MONITOR.4/2/92.'.

**24.02.1992** Service defect: 'SW - BOGIE - CHANGED 1 AND 2 BOGIES AROUND.REDRILLED BOGIE HUB.NO.R2. PEDESTAL LINER REPLACED.'.

**24.02.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BREAK GEAR INSTALED,ADJUSTED,AND PIN UNSEASED.OK.'.

**24.02.1992** Service defect: 'SW - R/HAND ARM REST TO REPLACE.'.

**26.02.1992** Service defect: 'TS - BOGIE - CHANGED 1AND2 BOGIES AROUND.NO R2 PEDESTAL LINER REPLACED.'.

**05.03.1992** Service defect: 'TS - FUEL SYSTEM INJECTORS - ALL INJECTORS REPLACED AND ADJUSTED.WITH INJECTORS BYPAST ADDITIVE ADDED TO TANK AND CIRCULATED.LOCO L/TESTED OK.'.

**17.03.1992** Service defect: 'TS - FUEL SYSTEM INJECTORS - ALL FUEL INJECTORS CHANGED.-FUEL FILTER CHANGED.LOAD TESTED FOR ONE AND A HALF HOURS.SENT TO BOLIVAR ON TRIAL RUN.-OK.'.

**27.03.1992** Service defect: 'TS - BLOCKED FILTERS - SPIN ON PRIMARY FUEL FILTERS REPLACED.'.

**27.03.1992** Service defect: 'TS - FUEL SYSTEM - AIR IN RETURN SIGHT GLASS TO MONITOR.'.

**27.03.1992** Service defect: 'TS - FUEL SYSTEM INJECTORS - NO.8 INJECTOR REPLACED.'.

**27.03.1992** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL TRANSFER PUMP REPLACED.'.

**27.03.1992** Service defect: 'TS - MECHANICAL EQUIPMENT BRAKE VALVE - 60LB RELIEF VALVE REPLACED.'.

**16.04.1992** Service defect: 'TS - FUEL SYSTEM LINES - FUEL SUCTION LEAK REPAIRED.FUEL LINES BACK FLUSHED WITH AIR.LOCO RUN UP ON LOAD TEST & SIGHTGLASS CLEAR.'.

**23.04.1992** Service defect: 'UN - FUEL SYSTEM - SUCTION FUEL PIPE CLEARED,A/C BLOCKAGE.LOAD TESTED OK.'.

**01.05.1992** Service defect: 'CA - ENGINE GOVERNOR - 'B'VALVE IN GOVERNOR U/S POWER PACK REPLACED(EX DL36).OK.'.

**01.05.1992** Service defect: 'CA - FUEL SYSTEM - FUEL FILTERS AND LINES CLEANED.OK.'.

**05.05.1992** Service defect: 'SW - BOGIE - 'A'END INSIDE SHOCK ABSORBER RUBBERS CHANGED.'.

**05.05.1992** Service defect: 'SW - TRACTION MOTOR - MORGANITE TEST BRUSHES FITTED TO ALL T/MOTORS(MONITOR).'.

**05.05.1992** Service defect: 'SW - FUELTANK.'.

**15.05.1992** Service defect: 'UN - FUEL SYSTEM - NEW FUEL TANK FITTED. LOCO LOAD TESTED OK. .'.

**15.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO WIRING CONNECTED.'.

**30.07.1992** Service defect: 'B - COOLING SYSTEM - COOLANT CHANGED.'.

**30.07.1992** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - CHANGED 2 FUSES IN A/C CABINET.-RAD.FAN MEGGERED OK.'.

**30.07.1992** Service defect: 'B - ENGINE - LEFT HAND CAM GEAR BOLTS CHECKED OK.'.

**30.07.1992** Service defect: 'B - FUEL SYSTEM - FUEL PRIME BUTTON REPLACED A/C MISSING.'.

**30.07.1992** Service defect: 'B - TRACTION MOTOR - NO.1 T/M CHECKED OK.A/C HIGH MEGGER READING.'.

**30.07.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - MORGANITE TEST BRUSHES CHECKED OK.'.

**16.10.1992** Service defect: 'A - ALTERNATOR - FUSE REPLACED IN ALTERNATOR - DIODES CHECKED OK.'.

**16.10.1992** Service defect: 'A - BOGIE - R2 HORNSTAYS TIGHTENED.NO 1 & NO 2 GEARCASES TIGHTENED.'.

**16.10.1992** Service defect: 'A - ENGINE - ENGINE PROTECTION DEVICE REPLACED, A/C LEAKING

WATER AT TELLTALE HOLE.'.

**16.10.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - L1,L6 & R6 BRAKE GEAR REPAIRED. 'B'END NO 4 PIPE HOSE REPAIRED.'.

**16.10.1992** Service defect: 'A - RADIATOR/PRESSURISING FAN - MALE & FEMALE PLUGS REPLACED ON RAD FAN 3.'.

**16.10.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - COMPLETE BRUSH CHANGE. NEW 'NATIONAL' TEST BRUSHES PLACED IN T/M'S AT 642962 KM'S.'.

**21.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR PIPE REPAIRED, A/C BROKEN.'.

**05.12.1992** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.DIRECTION TESTED OK.'.

**05.12.1992** Service defect: 'SW - DYNAMIC BRAKE - DYN/BRAKE TESTED OK.'.

**05.12.1992** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REMOVED FOR COUNTERWEIGHT INSPECTION. TURBO INSTALLED & LOCO LOAD TESTED OK.'.

**14.12.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - R4 & L5 AXLE BOX SPRINGS PUSHED BACK INTO POSITION.'.

**19.01.1993** Service defect: 'C - AIR CONDITIONING - AIR FRIDGE REPAIRED A/C BLOCKED FILTERS.'.

**19.01.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - MANY CONTACTOR FINGERS FOUND LOOSE.ALL WERE TIGHTENED.'.

**19.01.1993** Service defect: 'C - ENGINE - ENGINE TEMP PROBE NO1 BOOKED NOT WORKING .PROBES 1&3 WERE SWAPED.'.

**19.01.1993** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MAGNET VALVE FIXED A/C OIL FOUND INSIDE BETWEEN THE CONTACTS.'.

**19.01.1993** Service defect: 'C - AUXILLARY BLOWER ARM TO REPLACE.'.

**20.01.1993** Service defect: 'UN - ENGINE - ENGINE TEMPERATURE PROBE NO1 REPLACED.TESTED OK.'.

**20.01.1993** Service defect: 'UN - LUBRICATING SYSTEM - MAIN LUBE OIL PUMP CHANGED.TESTED OK.'.

**24.02.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - NEW MECHANICALLY BONDED RADIATORS FITTED.'.

**24.02.1993** Service defect: 'UN - ENGINE - ENGINE PROTECTION UNIT REPLACED.'.

**24.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - WATER HOSE REPLACED ON VENT LINE TO COMPRESSOR.'.

**15.04.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRES 9L1 & 9L33 IN DRIVERS CONTROL STAND RE-LUGGED,A/C BURNT.'.

**15.04.1993** Service defect: 'A - ENGINE - NO 8 POWER ASSEMBLY CHANGED,A/C WATER LEAK.'.

**15.04.1993** Service defect: 'A - CONDUIT TO FUEL PUMP TO REPAIR.15/4.'.

**24.06.1993** Service defect: 'SW - DYNAMIC BRAKE - COVER ON DYN/BRAKE FAN MODIFIED,A/C GROUND FAULT IN DYNAMIC.'.

**24.06.1993** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - COOLING FAN CONTACTOR WIRING REPAIRED,A/C SEQUENCE CHECK FAILED.'.

**08.07.1993** Service defect: 'B - GENERAL - OBSERVERS SEAT REPLACED,DRIVERS SEAT CHECKED OK.'.

**08.07.1993** Service defect: 'B - OTHER BODY REPAIRS - OBS WINDOW REPLACED.'.

**08.07.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 5 T/MOTOR TEST BRUSHES REPLACED.'.

**08.07.1993** Service defect: 'B - A/CON TO REPLACE,A/C SHORT BRUSHES IN COMP MOTOR,'.

**08.07.1993** Service defect: 'B - ALSO LEAKING SEAL.8/7.'.

**26.07.1993** Service defect: 'TS - DYNAMIC BRAKE - LOCO FAILED LOAD TEST - A/C GR'S, DYN/BRAKE FAN CABLES RUBBED THROUOGH TO LID. REPAIRED & LOAD TESTED OKAY.'.

**26.07.1993** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - ALTERNATOR FUSES REPLACED, COVERS REPLACED THEN LOAD TESTED.'.

**23.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPORTED AS WORKING EN-EVENLY. WATER FOUND IN THE TRANSMITTER. WATER DRAINED AND TRANSMITTER RESEALED.'.

**01.10.1993** Service defect: 'A - AIR CONDITIONING - AIR CON. BRUSHES CHECKED, FOUND TO BE SHORT BUT GOOD ENOUGH UNTIL NEXT SERVICE.'.

**01.10.1993** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - POSITIVE BASE DIODE AND PROTECTION FUSE REPLACED ON AR11.'.

**01.10.1993** Service defect: 'A - GENERAL - AUX. GEN. GRILL WELDED A/C CRACKED. FOG LIGHT CHANGED.'.

**01.10.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SALEM SANDING VALVE CHANGED. FRONT.'.

**01.10.1993** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO PULSE GEN. CHANGED.'.

**01.10.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - NO.3 RAD. FAN FUSES REPLACED, CONTACTS CHECKED OK. MALE, FEMALE PIN REPLACED IN FAN PLUG.'.

**01.10.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - 16 T/M BRUSHES CHANGED ON EACH MOTOR A/C CONDEMNING LIMIT. DE7000 TEST BRUSHES.'.

**14.10.1993** Service defect: 'UN - ALTERNATOR - DIODE CHANGED BUT FUSE POPPED AGAIN. WHOLE BANK WILL HAVE TO BE TESTED.'.

**14.10.1993** Service defect: 'UN - ALT. DIODE CHANGED BUT FUSE POPPED. WHOLE BANK TO'.

**14.10.1993** Service defect: 'UN - BE CHECKED.14/10/93.'.

**30.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TIGHTENED GF FITTING ON TRAIN PIPE, A/C AIR LEAK.'.

**08.11.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FUSE REPLACED, A/C BLOWN.'.

**08.11.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - T/M'S CHECKED OK - HT= 10KOHMS. LOAD TESTED OK.'.

**08.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NEG BASE DIODE REPLACED, A/C SHORTED.'.

**07.12.1993** Service defect: 'SW - BOGIE - BOGIE SWAP WITH DL 45 + ROTATION COMPLETED.'.

**18.12.1993** Service defect: 'F - ALTERNATOR - FUSES CHANGED IN ALT. DIODES CHECKED OK.'.

**18.12.1993** Service defect: 'F - BATTERY MAINTENANCE - BATTERIES TOPPED UP A/C ELECTROLYTE VERY LOW.'.

**18.12.1993** Service defect: 'F - BOGIE - 'A'END BOLSTER SHOCKER RUBBERS REPLACED A/C TORN. 'A'END COUPLER RODS STRAIGHTENED.'.
**18.12.1993** Service defect: 'F - GENERAL - OBSERVERS SEAT CHANGED, A/C TORN.'.
**18.12.1993** Service defect: 'F - MECHANICAL EQUIPMENT - 'A'END OBS. SIDE B/PIPE COCK AND HOSE REPLACED, A/C HOSE LEAKING AND INCORRECT COCK FITTED.'.
**18.12.1993** Service defect: 'F - NO.1 RAD. FAN DISCONNECTED A/C 0 OHMS.18/12/93.FAN'.
**18.12.1993** Service defect: 'F - FUSES TO REPLACE WITH RAD. A/C NIL STOCK MPC.18/12'.
**18.12.1993** Service defect: 'F - .'.
**21.12.1993** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - NO.1 RADIATOR FAN FUSES REPLACED.'.
**21.12.1993** Service defect: 'SW - RADIATOR/PRESSURISING FAN - NO.1 RADIATOR FAN REPLACED, A/C MEGGERED 0 OHMS.'.
**10.01.1994** Service defect: 'UN - TRACTION MOTOR - NO.6 T/M V-RING HAS MINOR DAMAGE, TO MONITOR.'.
**10.01.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - SEVERAL B/HOLDERS ADJUSTED A/C TOO FAR FROM COMM.'.
**11.01.1994** Service defect: 'UN - GENERAL - AIR FRIDGE DRAIN REPAIRED AT ISLINGTON.'.
**27.01.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - A/C CABLES INSULATED FROM RUBBING THRU, BY D. BUNYAN.'.
**10.02.1994** Service defect: 'SW - BATTERY MAINTENANCE - BATTERY BOXES REPAIRED. ROLLERS REPLACED.'.
**10.02.1994** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - FUSE IN ALTERNATOR REPLACED, ALT CHECKED OK.'.
**10.02.1994** Service defect: 'SW - GENERAL - DOOR CATCH REPAIRED.'.
**10.02.1994** Service defect: 'SW - TRACTION MOTOR - T/MOTORS INSPECTED, A/C GR'S. CHECKED OK. LOCO LOAD TESTED OK, 3028 H.P. 100
**12.04.1994** Service defect: 'A - CONTACTOR EP VALVES - COMP GOV MAGNET VALVE RENEWED.'.
**12.04.1994** Service defect: 'A - CONTACTOR INTERLOCKS - FCS (2) CONTACTOR CHANGED, A/C STICKY INTERLOCK.'.
**12.04.1994** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - STARTER MOTOR CABLE REPAIRED.'.
**12.04.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - ENGINE PROTECTION DEVICE REPLACED, A/C OIL LEAK FROM BUTTON.'J'LOOP ON RELAY IN AC CABINET REPLACED, A/C HEAT DAMAGE.'.
**12.04.1994** Service defect: 'A - GENERAL - D/SIDE ARM REST REPAIRED. CAB DOOR LATCH REPAIRED.'.
**12.04.1994** Service defect: 'A - LUBRICATING SYSTEM - PIPE TO TURBO FILTER REPAIRED, A/C LEAKING OIL.'.
**12.04.1994** Service defect: 'A - MAIN LUBRICATING OIL GAUGE TO REPLACE, NIL STOCK.'.
**15.04.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO RUN DOWN COMPLETED - LOCO LOAD TESTED 3027 H.P. L.R. 100
**15.04.1994** Service defect: 'UN - ENGINE WATER LEAK - NON RETURN VALVE ON WATER INLET PIPE REPLACED, A/C LEAKING.'.
**15.04.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FANS DIRECTION TESTED OK.'.
**11.06.1994** Service defect: 'UN - GENERAL - BLIND REPAIRED.'.
**11.06.1994** Service defect: 'UN - OTHER BODY REPAIRS - DRIVER/SIDE WINDOW REPLACED.'.
**17.06.1994** Service defect: 'UN - BOGIE - THRUST PLATE WEAR PLATE REPLACED 'B'END ONLY.'.
**17.06.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO OPTICAL SENSOR DISASSEMBLED AND CLEANED - CHECKED OK.SENSOR INSTALLED AND SPEEDO CHECKED OK.'.
**17.06.1994** Service defect: 'UN - FUEL SYSTEM - FUEL GAUGE ON D/S CLEANED AND REPAIRED.'.
**17.06.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE COCK REPLACED.'.
**20.06.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO - HASLER ANALOGUE INPUT CARD FAULTY, A/C HOT JOINT. 'ININT' CARD REPLACED FROM SPARE UNIT, CHECKED OK.'.
**27.06.1994** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - ALTERNATOR FUSE REPLACED.'.
**27.06.1994** Service defect: 'B - GENERAL - OBS/SIDE WINDOW WASHERS REPAIRED.'.
**27.06.1994** Service defect: 'B - LUBRICATING SYSTEM - LARGE RUBBER 'O'RING SEALS ON OIL COOLER CHANGED, A/C OIL LEAKING.'.
**27.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT BRAKE VALVE - A1 CHARGING VALVE CHECKED OUT OK, A/C SUSPECT IN OPERATION DURING BRAKE TEST.'.

### DL 50

Details: locomotive 'DL 50 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $2400000
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 22.12.1989
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**BSG Code:** LSAD

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 11.04.1997 | | |
| SW Service Mileage: | 358378 KM | SW Service Date: | 11.10.1996 |
| A Service Mileage: | 428251 KM | A Service Date: | 09.01.1997 |
| B Service Mileage: | 463662 KM | B Service Date: | 11.04.1997 |
| C Service Mileage: | 345678 KM | C Service Date: | 27.09.1996 |
| D Service Mileage: | 491650 KM | D Service Date: | 05.02.1992 |
| WT Service Mileage: | 991261 KM | WT Service Date: | 08.03.1994 |
| US Service Mileage: | 436782 KM | A Service Date: | 30.01.1997 |

**22.12.1989** Service defect: 'UN - ENGINE - * ENG CHECK AFTER DELIVERY FROM BATHURST *'.
**22.12.1989** Service defect: 'UN - VALVE BRIDGE/LASH ADJUSTER - EMD TEST LASH ADJUSTERS AND VALVE BRIDGES FITTED AT BATHURST'.
**11.01.1990** Service defect: 'UN - LUBRICATING SYSTEM LOW OIL PRESSURE - CHECKED IN DEPOT FOR LOW OIL PRESSURE,NO DEFECT FOUND.'.
**12.01.1990** Service defect: 'UN - ENGINE - PIPE REMOVAL - DELTA 'P'PIPE REMOVED.'.
**12.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR DRYER - FITTED TO COMPRESSOR.'.
**14.01.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - ENG PROT UNIT REPLACED A/C LOW WATER SHUTDOWN AND LEAKING WATER.'.
**14.01.1990** Service defect: 'UN - FUEL SYSTEM - FUEL GAUGE LEAK - GLO ROD RESEALED.'.
**18.01.1990** Service defect: 'TS - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**18.01.1990** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - - L.3(1),R.3(1). - L.4(3),R.4(2).'.
**18.01.1990** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - - L.5(2),R.5(1). - L.6(2),R.6(2).'.
**18.01.1990** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(4),R.1(2). - L.2(2),R.2(2).'.
**18.01.1990** Service defect: 'TS - ENGINE - 'PRE'SERVICE - MECHANICAL/ELECTRICAL CHECKS COMPLETED.'.
**18.01.1990** Service defect: 'TS - ENGINE - LOW WATER SHUT/DOWN - 1 WAY VALVE ON WATER INLET REPAIRED.'.
**27.01.1990** Service defect: 'UN - AIR CONDITIONING - NOISE IN UNIT - UNIT NOT FAULTED.'.
**27.01.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - BLOWN HEAD/LIGHTS - REPLACED.'.
**27.01.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND TRAP - R.3 SAND TRAP REPAIRED.'.
**07.02.1990** Service defect: 'SW - OTHER BODY REPAIRS - TEMP.REPAIRS - RUBBER BLOCKS FITTED TO UNDER/FRAME ON CAB.'.
**08.02.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - JUMP/START SOCKET - INSTALLED.'.
**17.02.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS(1,3&4),4 BAGS(2,5&6). (TMGL)'.
**21.02.1990** Service defect: 'SW - OTHER BODY REPAIRS - CAB MOUNTS & SEALS - REPAIRED.'.
**28.02.1990** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - ENGINE SHUTDOWN - BLOWER SHUTTER - EP VALVE CHANGED A/C BROKEN NEGATIVE TERMINAL.'.
**28.02.1990** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - ENGINE SHUTDOWN - LOCAL CCB TRIPPING . EARTH FAULT , WIRE FOUND BROKEN ON EP VALVE TO TRACTION MOTOR'.
**09.03.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND FAULT - UNIT EX.DL45 INSTALLED.(COMPRESSOR SEIZED)'.
**09.03.1990** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - HASLER MOD. - CAPACITOR INSTALLED BETWEEN SIGNAL TERMINAL & POWER SUPPLY COMMON ON EACH OF THE TRANSDUCERS'.
**10.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - SEAT REPAIRS - BOTH SEATS LOOSE IN BRACKETS - REWELDED.'.
**12.03.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE.'.
**20.03.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTOR - S.G.C.ADJUSTED.'.
**20.03.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY SWITCH - ENG/ROOM LIGHT SWITCH REPLACED.'.
**20.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - - OPERATION CHECKED OK. MINIMUM REDUCTION TIME - WITH NEW PLATE 10 SECONDS.'.
**20.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BOOKING ON BRAKES - OPERATION CHECKED OK. APPLICATION CHOKE PLATE - MODIFIED CHOKE PLATE INSTALLED.'.
**20.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FULL SERVICE APPLICATION - ' ' ' 15 ' .'.
**20.03.1990** Service defect: 'UN - NO FAULT FOUND - SPEEDO - CHECKED OK IN DEPOT.'.
**26.03.1990** Service defect: 'UN - RADIO REPAIR - RADIOS SHIFTED.ANTENNA CONVERTED.'.
**30.03.1990** Service defect: 'TW - BOGIE - LUBRICATION CHECK- 3 BAGS ADDED TO 1,5&6, OTHERS OK. WORN BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**14.04.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**14.04.1990** Service defect: 'TW - ELECTRICAL MISC. MODULES - ROMPAK - REPLACEMENT COMPLETED & O/SPEED RE-SET 1045 RPM.'.
**19.04.1990** Service defect: 'A - BOGIE - - L.3(4),R.3(4). - L.4(2),R.4(1). 'A'BOGIE NOW DL127.'.
**19.04.1990** Service defect: 'A - BOGIE - - L.5(2),R.5(3). 'B'BOGIE NOW DL126. - L.6(4),R.6(7).'.
**19.04.1990** Service defect: 'A - BOGIE - BOGIE REVERSAL - COMPLETED. LUBRICANT CHECK - 2 BAGS(2&4),4 BAGS(5&6),OTHERS OK.'.
**19.04.1990** Service defect: 'A - BOGIE - FLANGE WEAR RECORD - L.1(1),R.1(2). * AFTER REVERSAL * - L.2(1),R.2)3).'.
**21.04.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - HEAD/LIGHT MOD COMPLETED.'.
**21.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAILURE - PULSE GENERATOR REPLACED.'.
**21.04.1990** Service defect: 'UN - ODDOMETER TO ADJUST BY 630 KM'S A/C FAILURE.'.
**27.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR BLOW AT COMPRESSOR REPAIRED.'.
**07.05.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.
**07.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.3(4),R.3(4). - L.4(2),R.4(2).'.
**07.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - - L.5(0),R.5(2.5). - L.6(3.5),R.6(6.5).'.
**07.05.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(2),R.1(2). - L.2(0),R.2(2.5).'.
**07.05.1990** Service defect: 'UN - MECHANICAL

MAINTENANCE - SPEEDOMETER - ODDOMETER - ADJUSTED A/C FAILURE OF SENSOR.'.

**07.05.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC - OPERATION CHECKED OK.'.

**10.05.1990** Service defect: 'UN - GENERAL - BOOKED FOR MISSING TOILET SPLASH PLATE,NIL SPARES.RETURNED TO PT AUGUSTA FOR REPAIRS.'.

**21.05.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK -'.

**27.05.1990** Service defect: 'UN - CONTACTOR EP VALVES - COMPRESSOR MAGNET VALVE REPLACED.'.

**06.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS ADDED TO EACH G/CASE.'.

**06.06.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK EXCESSIVE - P2A & A1 VALVE PIPE FITTINGS REPLACED.'.

**16.06.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**24.06.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEAD/LIGHTS & FOG/LIGHTS - REPLACED.'.

**24.06.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MARKER LIGHTS - REPLACED. DESK LIGHT U/S - O/SIDE DESK LIGHT REPLACED.'.

**24.06.1990** Service defect: 'UN - OTHER BODY REPAIRS - DOOR LATCH U/S - CAB TO VESTIBLE REPAIRED.'.

**28.06.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC RADIO REPAIRED.'.

**09.07.1990** Service defect: 'UN - BOGIE - BOGIE LUBE - 3 BAGS ADDED TO EACH CASE.'.

**09.07.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - D/SIDE HEATER SWITCH REPLACED A/C OPEN CIRCUIT.'.

**18.07.1990** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE PROTECTION FAULTY.RETURNED TO PT AUGUSTA FOR REPS.'.

**18.07.1990** Service defect: 'TS - AIR BRAKE PROTECTION FAULTY.18/7*'.

**29.07.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - 2 BAGS(1&2),OTHERS OK.'.

**29.07.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHTS BLOWN - REPLACED & VOLTAGE ADJUSTED.'.

**29.07.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - AFT/COOLER PIPE WELDED.'.

**26.08.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**26.08.1990** Service defect: 'TW - OTHER BODY REPAIRS - REAR THROAT PLATE BOLTS - REPLACED.'.

**08.09.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - ALL LEVELS CHECKED OK.'.

**16.09.1990** Service defect: 'UN - BATTERY MAINTENANCE - UNABLE TO START - 1 NO.STARTING BATTERY REPLACED. - BATT.OUT EXIDE 904,BATT.IN EXIDE 800(DL38)'.

**20.09.1990** Service defect: 'SW - BOGIE - LUBRICANT CHECK - 4 BAGS(1),5 BAGS(2,3,4,5&6).'.

**20.09.1990** Service defect: 'SW - COOLING SYSTEM RADIATOR - LOSING WATER - O/SIDE NO.3 RADIATOR REPLACED. RADIATOR MOD - COMPLETED.'.

**20.09.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - HASLER TIME - ADJUSTED.'.

**20.09.1990** Service defect: 'SW - OTHER BODY REPAIRS - CAB BUMP STOPS - FITTED.'.

**20.09.1990** Service defect: 'SW - STARTER MOTOR - STARTER MOTOR MOD - NEW BUSHES FITTED.'.

**25.09.1990** Service defect: 'SW - FUEL SYSTEM - TANK FRACTURE - FUEL TANK DEGASSED,RE-WELDED CHECKED OK.'.

**02.10.1990** Service defect: 'UN - NO FAULT FOUND - LOW POWER - LOCO CHECKED OI DEPOT,NOT FAULTED.'.

**02.10.1990** Service defect: 'UN - TO PROFILE A/C 3' FLATS NO.2&3 WHEELS. (2/10)'.

**03.10.1990** Service defect: 'WT - SPEEDO TO SET MILE END'.

**04.10.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO CALIBRATED.'.

**29.10.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.3(2),R.3(4). - L.4(2),R.4(5).'.

**29.10.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - - L.5(0),R.5(3.5). - L.6(0),R.6(4.5).'.

**29.10.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR RECORD - L.1(0),R.1(3). - L.2(0),R.2(2).'.

**17.11.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 3 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**02.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 5 BAGS ADDED TO EACH G/CASE. EXCESS TRAVEL - SEVERAL BLOCKS REPLACED & BRAKES ADJUSTED.'.

**12.12.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRANSDUCER - CHANGE/OUT COMPLETED.(IN-ACCURATE READINGS)'.

**17.12.1990** Service defect: 'UN - GENERAL - FRONT AND REAR THROAT PLATE CARRIER BOLTS TIGHTENED'.

**22.12.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 4 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**15.01.1991** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - MODS COMPLETED.'.

**22.01.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - # 1 RAD-FAN REPLACED A/C OPEN CIRCUIT, # 2 RAD-FAN MALE PLUG& SOME FEMALE PINS REPLACED.'.

**30.01.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - BOGIES ROTATED.DIRECTION TESTED AND MOVEMENT TESTED.'.

**08.02.1991** Service defect: 'SW - AIR CONDITIONING - FRACTURED PIPE - H.P.DISCHARGE PIPE MADE UP & FITTED. - SYSTEM RE-GASSED & TESTED OK.'.

**08.02.1991** Service defect: 'SW - AUXILLARY MACHINES - C/BREAKER TRIPPED - AUX/GEN OUT/PUT CABLES RE-INSULATED. - (RUBBED THROUGH ON FIRE/WALL)'.

**05.04.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - T1 ON TRANSFORMER REPAIRED.(WIRE BURNT OFF)'.

**17.04.1991** Service defect: 'UN - DYNAMIC BRAKE - MODIFICATION - DYN/BRK FAN VENT MOD.COMPLETED.'.

**17.04.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTOR CHANGE - COMPLETED.'.

**14.05.1991** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR PRESSURE SWITCH REPLACED.'.

**14.05.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SALEM SANDING VALVE REPLACED.'.

**14.05.1991** Service defect: 'A - MECHANICAL MAINTENANCE

- AIR BRAKE - J1 RELAY VALVE SAFETY VALVE REPLACED,LHS TRAIN PIPE COCK REPAIRED,BRAKE CYLINDER SAFETY VALVE REPAIRED.'.

**14.05.1991** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - 'A' @ 'B' END LOW NOTE HORNS REPLACED.'.

**14.05.1991** Service defect: 'A - OTHER BODY REPAIRS - STEPS REPAIRED,TOILET PUT BACK TOGETHER,UNCOUPLER 'A' END REPAIRED,NO 6 GEARCASE CAP REPLACED,DOOR HANDLE REPAIRED.'.

**14.05.1991** Service defect: 'A - RADIATOR/PRESSURISING FAN - NOS 1 @ 2 FANS REPLACED.TM BLOWER FAN CRACK WELDED,CHECKED OKAY.'.

**31.05.1991** Service defect: 'UN - AUXILLARY MACHINES - BLOWER FAN - NEW FAN INSTALLED A/C ORIGINAL CRACKED.'.

**31.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MOD - COMPLETED. COUPLING - NEW RUBBERS FITTED TO COUPLING.(ENGINE END)'.

**05.06.1991** Service defect: 'UN - DYN/BRAKE CUT OUT,AWAITING PARTS FOR REPAIR.D/B'.

**05.06.1991** Service defect: 'UN - FAN.5/6.'.

**06.06.1991** Service defect: 'TW - BOGIE - LUBE CHECK - 2 BAGS ADDED TO EACH G/CASE. (TMGL)'.

**27.06.1991** Service defect: 'TW - COMPUTER OCCASIONALLY NOT WORKING - BUTTONS NOT'.

**27.06.1991** Service defect: 'TW - WORKING WHEN PRESSED.28/6.'.

**29.07.1991** Service defect: 'B - OBS SIDE FUEL GAUGE TO BE REPLACED,NIL STOCK MPC.'.

**29.07.1991** Service defect: 'B - 29/7.'.

**13.08.1991** Service defect: 'SW - DYNAMIC BRAKE - DYN/BRAKE FAN REPLACED, A/C LOOSE FIELDS. GRIDS TESTED OK.'.

**13.08.1991** Service defect: 'SW - VIGILANCE - VIG LIGHT COVER REPLACED.'.

**13.08.1991** Service defect: 'SW - WIRE HANGING OUT OF BROWN CPU CONNECTOR.TOP WIRE'.

**13.08.1991** Service defect: 'SW - PP360 +PP 6*60 (2 WIRES).REQ'S SPECIAL TOOL TO'.

**13.08.1991** Service defect: 'SW - RECONNECT.13/8.'.

**10.09.1991** Service defect: 'UN - AIR CONDITIONING - NOT COOLING - UNIT EX.DL41 INSTALLED. - (MOUNTS BROKEN & DELIVERY PIPE BROKEN)'.

**16.09.1991** Service defect: 'UN - AUXILLARY MACHINES - HASSLER AL09 FAULT - UNIT REPAIRED,CASSETTE REPLACED. - TIME ADJUSTED.'.

**16.09.1991** Service defect: 'UN - BOGIE - EXCESS TRAVEL - BRK/BLOCKS REPLACED & ADJUSTMENT COMPLETED.'.

**16.09.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEAD/LIGHT BLOWN - R/SIDE SEAL BEAM REPLACED.'.

**15.10.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON CHANGED OVER, TESTED OK.'.

**15.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATT AMMETER REPLACED,A/C REMOVED FOR DL 42.'.

**15.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - D/S MIRROR REPLACED.FUEL TANK WELDED.'.

**19.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO LIGHT REPAIRED.'.

**25.10.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - ALL T/M'S INSPECTED OK,A/C GR'S.'.

**25.10.1991** Service defect: 'UN - NEW SPEEDO REQ'D,LIGHT NOT WORKING.25/10.'.

**06.11.1991** Service defect: 'A - TRACTION MOTOR FLASHOVER - NO.1 T?M FLASHED OVER. A?C HANGING PIG TAIL.'.

**13.11.1991** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED.DIRECTION TESTED OK.'.

**13.11.1991** Service defect: 'UN - GENERAL - DOOR CATCH REPAIRED'.

**13.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HASLER CASSETE CHANGED.BRAKE PIPE TRANSDUCER REPLACED.'.

**14.11.1991** Service defect: 'TS - VIGILANCE - VIG RESET,A/C NO BRAKE PRESSURE.FRONT B/PIPE BARREL UNION TIGHTENED,A/C LOOSE.'.

**03.01.1992** Service defect: 'UN - AUXILLARY MACHINES - BRUSHES CHANGED ON FUEL PUMP.-A/C TOO SHORT;NOT MAKING CONTACT.-COMMUTATOR CLEANED.'.

**16.01.1992** Service defect: 'UN - RADIO REPAIR - RADIO TEST COMPLETED.'.

**10.02.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - LOCO CHECKED IN DEPOT,DYNAMIC OPERATING. - SLIGHT BURN MARK ON ONE GRID.'.

**14.02.1992** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - SCREW FELL OUT OF CONTACTOR AND SHORTED OUT MBR2 & 3 ALSO WIRES BURNT OFF DYNAMIC BRAKE FEED BACK RESISTOR'.

**20.03.1992** Service defect: 'TS - DYNAMIC BRAKE SETTING - DYN. BRAKE CHECKED OK IN BOTH DIRECTIONS.'.

**20.03.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - DRIVERS DESK LIGHT REPAIRED.'.

**20.03.1992** Service defect: 'TS - RADIATOR/PRESSURISING FAN - FAN AND CONTACTORS CHECKED OK.'.

**28.04.1992** Service defect: 'CA - MECHANICAL EQUIPMENT COUPLER - COLLISION REPAIRS- A END COUPLER CHANGED, ENGINE MOUNTS CHECKED OK.'.

**13.05.1992** Service defect: 'UN - AIR CONDITIONING - AIR/CON BRUSHES REPLACED & PIPE WORK REPAIRED.LOCO REGASSED.'.

**14.05.1992** Service defect: 'UN - GENERAL - RADIO REPS COMPLETED.'.

**17.06.1992** Service defect: 'SW - - L/S PEDASTAL LINER TO CHANGE.'.

**17.06.1992** Service defect: 'SW - BOGIE - BOGIE RECONNECT COMPLETE.'.

**29.06.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - 4 AXLE SPRINGS RE-ALIGNED.'.

**29.06.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON WHEELS CHECKED OK.'.

**29.06.1992** Service defect: 'UN - BROKEN PIPE - TRAIN PIPE HOSE REPLACED.'.

**29.06.1992** Service defect: 'UN - GENERAL - OBS. SIDE ARM REST REPLACED.-DOOR CATCH REPAIRED.'.

**17.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DATA CASSETTE REPLACED.'.

**17.07.1992** Service defect: 'UN - DATA LOGGER TO REPAIR.17/7/92.'.

**04.08.1992** Service defect: 'B - CONTACTOR

MISCELLANEOUS - NO.2 FAN CONTACTOR REPLACED.A/C U/S.'.

**04.08.1992** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - MARKER LIGHT TOGGLE SWITCH REPLACED.'.

**04.08.1992** Service defect: 'B - ENGINE - CAMSHAFT GEAR CHECKED OK.'.

**04.08.1992** Service defect: 'B - LUBRICATING SYSTEM OIL COOLER - SEAL REPLACED IN OIL COOLER.A/C LEAKING.'.

**04.08.1992** Service defect: 'B - FLATS ON WHEELS TO MONITOR.5/8/92'.

**01.09.1992** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATOR REPLACED WITH MECHANICAL BONDED TYPE.'.

**01.09.1992** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO REMOVED AND COUNTER WEIGHTS INSPECTED CHECKED OKAY.'.

**01.09.1992** Service defect: 'SW - FUEL SYSTEM - FUEL TANK REPLACED.- BRACKETS MODIFIED A/C NEW TANK LONGER.'.

**08.09.1992** Service defect: 'UN - AUXILLARY MACHINES - ELECTRIC FUEL PUMP CHANGED A/C NOT WORKING.'.

**23.10.1992** Service defect: 'A - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR TRANSCEIVER REPLACED, A/C SUSPECT. CONNECTIONS CHECKEDOK.'.

**23.10.1992** Service defect: 'A - FUEL SYSTEM - FUEL TANK FILLERS REMOVED & RESEALED, A/C LEAKS.'.

**17.11.1992** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR CHANGED & TESTED OK. CONTACTOR TESTED OK, A/C SUPER SERIES FAULT.'.

**17.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LOOSE PIPE, REPLACED OLIVE & TIGHTENED. TESTED OK, A/C LOCO BRAKES LEAK OFF WHILE USING AUTOMATIC BRAKE.'.

**15.12.1992** Service defect: 'TS - AUXILLARY MACHINES - AUX GEN CONNECTION REPAIRED, A/C RUBBED THROUGH.'.

**15.12.1992** Service defect: 'TS - ELECTRICAL MISC. MODULES - PSH MODULE INSTALLED EX DL 45, A/C MOUNTING CRACKED.'.

**13.01.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - REPLACED FIREMANS SIDE CONTACTS A/C ARCING ON CONTACTOR.'.

**13.01.1993** Service defect: 'C - ELECTRICAL MISC - RADAR TRANSCEIVER - RADAR DISCONECTED SPEDO RECALIBRATED,TESTED OK.'.

**13.01.1993** Service defect: 'C - TRACTION MOTOR - T/M BRUSHES FRAYED REPLACED ALL.'.

**16.04.1993** Service defect: 'A - ENGINE - REPLACED RUBBER VICTAULIC COUPLING.'.

**16.04.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES & HOSES REPAIRED.'.

**16.04.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED.'.

**16.04.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - ALL RAD FAN CONTACTORS REPLACED.'.

**08.05.1993** Service defect: 'UN - ELECTRICAL MISC. MODULES - IOL REPLACED A/C NO DYNAMIC BRAKE.'.

**06.07.1993** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCHES REPLACED.'.

**06.07.1993** Service defect: 'B - OIL PUMPS AND WATER PUMPS TO CHANGE NOT DONE ON'.

**06.07.1993** Service defect: 'B - SERVICE.7/7/93.'.

**21.07.1993** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT VOLTAGE ADJUSTED.'.

**21.07.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL PUMP CHANGE COMPLETED. LOAD TESTED,NO LEAKS.'.

**06.08.1993** Service defect: 'UN - ENGINE GOVERNOR - LOCO HUNTING - GOVERNOR CHANGED. LOAD TEST 2900HP, LOCO SENT BACK INTO TRAFFIC.'.

**03.09.1993** Service defect: 'TS - DYNAMIC BRAKE - DYN/BRAKE REPAIRS - FEEDBACK RESISTORS CHECKED OK, LOAD TESTED OK, NO OBVIOUS FAULT FOUND. HAS OCCASIONAL GRID'.

**03.09.1993** Service defect: 'TS - ELECTRICAL MISC. MODULES - BATTERIES CHANGED IN ARCHIVE MODULE, A/C FLAT.'.

**28.09.1993** Service defect: 'A - COOLING SYSTEM WATER PUMP - WATER PUMPS CHANGED.'.

**28.09.1993** Service defect: 'A - GENERAL - LOCO LOAD TESTED OK.'.

**28.09.1993** Service defect: 'A - LUBRICATING SYSTEM - OIL PUMP CHANGED.'.

**20.10.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.

**09.11.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES REPLACED ON NO 1 T/MOTOR, A/C PULLED PIGTAILS CAUSING GR'S.'.

**12.11.1993** Service defect: 'UN - GENERAL - DRIVERS SEAT REPAIRED.'.

**12.11.1993** Service defect: 'UN - NO FAULT FOUND - AIR BRAKE PROBLEM - COULD NOT FAULT IN DEPOT.'.

**17.12.1993** Service defect: 'A - BOGIE - TRI-MOUNT PADS REPLACED. NO.6 PEDESTAL LINER REPLACED.'.

**17.12.1993** Service defect: 'A - ENGINE - NO.11 POWER ASSEMBLY CHANGED A/C WATER LEAK. NO.11 CRANKSHAFT CLEANED UP, A/C LITTLE MARKS ON IT.'.

**17.12.1993** Service defect: 'A - GENERAL - D/SIDE SEAT CHANGED.'.

**17.12.1993** Service defect: 'A - FLATS ON FRONT BOGIE REPORTED.16/12/93.'.

**18.01.1994** Service defect: 'TS - BOGIE - 'B'END TRI-MOUNT REPAIRED. NEW SEALS FITTED.'.

**18.01.1994** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE REPAIRED. DRIVE COUPLING NUT REPLACED A/C HAD COME UN-DONE.'.

**27.01.1994** Service defect: 'UN - BOGIE - LOCO ROUGH RIDING. TRI-MOUNT FOUND CHEWED OUT. TRI-MOUNT 'B'END, OBSERVERS SIDE REPLACED.'.

**04.03.1994** Service defect: 'B - ENGINE AIR FILTERS - ENGINE AIR INTAKE FILTERS CHANGED.'.

**04.03.1994** Service defect: 'B - GENERAL - OBSERVERS SEAT REPAIRED. AIR FRIDGE REPAIRED. DRIVERS SIDE DOOR REPAIRED.'.

**04.03.1994** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR WATER PIPE NEAR FERRULE REPAIRED, A/C CRACKED.'.

**04.03.1994** Service defect: 'B - SMALL FLATS ON FRONT BOGIE, TO MONITOR.4/3/94.'.

**10.05.1994** Service defect: 'TS - BOGIE - ROUGH RIDING - 'B'END BOLSTER SHOCKER REPLACED.'.

**10.05.1994** Service defect: 'TS - BOGIE MAINTENANCE -

WHEELS - FLAT WHEELS - CHECKED OK.'.
**10.05.1994** Service defect: 'TS - GENERAL ACCIDENT - COLLISION REPAIRS - TRIP LEVERS REPAIRED.'.
**10.05.1994** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - W/SLIP IN D/B - FRONT SANDERS FOUND CUT OUT, CUT BACK IN ANDTESTED OK.'.
**13.05.1994** Service defect: 'SW - BOGIE - NO'S 2 AND 6 WHEELSETS ROTATED (SWAPPED). LOCO DIRECTION TESTED OK. 'B'END BOGIE SHOCK ABSORBER CHANGED.'.
**13.05.1994** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPLACED. BOLTS IN SAND PIPE BRACKETS REPLACED.'.
**13.05.1994** Service defect: 'SW - TRACTION MOTOR - NO 5 T/M COVER REPLACED, A/C MISSING.'.
**21.05.1994** Service defect: 'TS - ENGINE GOVERNOR - GONERNOR EX DL 47 INSTALLED, A/C U/S. RACKS CHECKED OK. LOCOLOAD TESTED OK - 2900HP, L/R 97.8
**01.06.1994** Service defect: 'A - AUXILLARY MACHINES - AUX GEN MOUNT WELDED UP.'.
**01.06.1994** Service defect: 'A - BOGIE - L3 BRAKE SHOE REPAIRED, A/C SEIZED.'.
**01.06.1994** Service defect: 'A - DYNAMIC BRAKE - DYN/BRAKE MOTOR BRUSHES REPLACED, A/C SHORT.'.
**01.06.1994** Service defect: 'A - FUEL SYSTEM - OIL LEAKS REPAIRED.'.
**01.06.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT M/R AUTO DRAIN VALVE REPAIRED.'.
**01.06.1994** Service defect: 'A - OTHER BODY REPAIRS - D/S WINDOW WASHER REPAIRED. OBS/SIDE 'B'END STEP STRAIGHTENED.'.
**01.06.1994** Service defect: 'A - B.P. FLOW INDICATOR GAUGE TO CHANGE. OBSERVER SIDE'.
**01.06.1994** Service defect: 'A - WINDOW TO REPAIR,RUSTY BODYWORK. BATTERY BOX HARD'.
**01.06.1994** Service defect: 'A - TO ROLL OUT.1/6.'.
**19.08.1994** Service defect: 'UN - B/BLOCKS CHANGED LUBED,MECH & ELECT S CHECKED OK'.

## 2.18 Locomotive classification starting with 'DUM'

**DUMY 1**

Details: locomotive 'DUMY 1 K' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

**DUMY 2**

Details: locomotive 'DUMY 2 T' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

**DUMY 3**

Details: locomotive 'DUMY 3 F' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

**DUMY 4**

Details: locomotive 'DUMY 4 Y' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

**DUMY 5**

Details: locomotive 'DUMY 5 A' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

**DUMY 6**

Details: locomotive 'DUMY 6 J' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

**DUMY 7**

Details: locomotive 'DUMY 7 S' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

**DUMY 8**

Details: locomotive 'DUMY 8 E' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

**DUMY 9**

Details: locomotive 'DUMY 9 N' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

**DUMY 10**

Details: locomotive 'DUMY 10 J' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 22m
**Tare Weight:** 128tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.10.1992
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 3030kw
**BSG Code:** LSAK

## 2.19 Locomotive classification starting with 'EL'

**EL 51**

Details: locomotive 'EL 51 J' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 24.07.1990
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**Remarks:** NAMED 'BOB BROWN'
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 23.04.1997 | | |
| Last Lift: | 04.06.1994 | | |
| SW Service Mileage: | 1662848 KM | SW Service Date: | 23.04.1997 |
| A Service Mileage: | 1623581 KM | A Service Date: | 13.02.1997 |
| B Service Mileage: | 1571851 KM | B Service Date: | 09.11.1996 |
| C Service Mileage: | 1150438 KM | C Service Date: | 25.05.1995 |
| D Service Mileage: | 1398358 KM | D Service Date: | 02.05.1996 |
| F Service Mileage: | 974156 KM | A Service Date: | 04.06.1994 |
| WT Service Mileage: | 795518 KM | WT Service Date: | 08.09.1993 |
| US Service Mileage: | 1629705 KM | A Service Date: | 24.02.1997 |

**10.08.1990** Service defect: 'UN - GENERAL - SOME CAB EQUIPMENT FITTED.'.
**14.08.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - WET SAND - SANDER UNBLOCKED & OPERATING OK.'.
**21.08.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - ABOVE 0.5 KM/H AND LOAD BEING DROPPED. NEW TYPE PANEL FITTED BY GONINAN REP - LOCO CHECKED OK.'.
**21.08.1990** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - NO POWER - REPLACEMENT EXC PANEL INSTALLED AT ISLINGTON HAD OLD TYPE SOFTWARE RESULTING IN WHEELSLIP OPERATION'.
**24.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - WHEEL RECORD TAKEN LHS-3,1,1,2,2,1.RHS-2,2,0,2,2,1. 65MM THICK TYRES.'.
**24.08.1990** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - CONTROL EARTH FAULT TO INVESTIGATE FURTHER.'.
**24.08.1990** Service defect: 'SW - ELECTRICAL MISC. MODULES - AUX PANEL CHANGED BY GONINAN REP A/C RADIATOR SHUTTERS FAILING TO OPEN.'.
**24.08.1990** Service defect: 'SW - GENERAL - FIRST MONTHLY SERVICE CARRIED OUT.ENGINE RETORQUE COMPLETED.'.
**24.08.1990** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - IMPROVED SEALING OF SANDING LIDS MODS CARRIED OUT BY GONINANREPS.'.
**24.08.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - SOUND WARNING - HORN MODS COMPLETED.'.
**24.08.1990** Service defect: 'SW - OTHER BODY REPAIRS - PROTOTYPE SEAT FITTED OBSERVERS SIDE.'.
**24.08.1990** Service defect: 'SW - TRACTION MOTOR BRUSHES - TM'S INSPECTED & BRUSH LENGTH MEASURED AT 44MM.'.
**03.09.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DATA LOGGER BOOKED FAULTY.DATA LOGGER CHANGED.'.
**06.09.1990** Service defect: 'UN - ELECTRICAL MISC. MODULES - DATA LOGGER & RECORDING MODULE CHANGED OUT.'.
**06.09.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AIR/CON THERMOSTAT ADJUSTED TO 30 DEG.A/C BOOKED AS NOT WORKING.'.
**10.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES BOOKED FOR SLOW RELEASE.REPAIRED.'.
**03.10.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NO PCS SWITCH FUNCTION,SWITCH (S/C188565)SQUARE D TYPE G5G3.SET CLOSE 60 OPEN 45.FITTED IN SERIES WITH EXISTING PKS.'.
**05.10.1990** Service defect: 'UN - NO FAULT FOUND - WATER LEAK-UNABLE TO FAULT NON RETURN ON WATER FILLER,LOCO CHECKED OK'.
**06.10.1990** Service defect: 'UN - COOLING SYSTEM - LOSING WATER-GATE VALVE INSTALLED IN FILLING SYSTEM,DUE TO LEAKING CHECK VALVE.'.
**06.11.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR AS STOPPED WORKING,CHECKED OK IN DEPOT.'.
**06.11.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDS BOOKED TO CLEAR,ISOLATING COCK CUT IN,OK.'.
**11.12.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST - OPERATION TESTED OK.'.
**23.01.1991** Service defect: 'SW - BOGIE - BOTH BOGIES CHANGED.'.
**07.02.1991** Service defect: 'UN - TOILET DOOR CATCH TEMPORARY REPAIR COMPLETED,BRAKE'.
**07.02.1991** Service defect: 'UN - PIPE PRESSURE TO MONITOR WILST IN TRAFFIC A/C SLOW'.
**07.02.1991** Service defect: 'UN - TO DROP DOWN TO PRESSURE'.
**08.02.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - LUG ON WIRING TO HEADLIGHT REPLACED A/C HIGH RESISTANT'.
**26.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL PIPE HOSE REPLACED.'.
**26.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN REPLACED,LARGE TRUMPET REMOVED OFF EL 54.'.
**16.04.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS CHECKED OK NO LEAK FOUND'.
**26.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FILTER MODIFICATION FITTED UNDER LOCO DASH PRIOR TO 30CW MODULE.'.
**02.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - WESTINGHOUSE AIR BRAKE CHECKS COMPLETED.'.
**10.05.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - TEMP.PROBE - NEW TEMP.PROBE INSTALLED. - (ORIGINAL USED FOR EL58)'.
**10.05.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR SYSTEM - FLUSHED OUT WITH EXIT/RUST.'.

**10.05.1991** Service defect: ‘SW - OTHER BODY REPAIRS - MODIFICATION - GONINAN RETRO/FIT PROGRAMME COMPLETED.’.
**16.05.1991** Service defect: ‘UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK - SEVERAL RADIATOR BOLTS TIGHTENED.’.
**16.05.1991** Service defect: ‘UN - OVERHEATING - O/HEATING - TEMP PROBE U/S,RETURN M.P.C FOR REPAIRS.’.
**17.05.1991** Service defect: ‘UN - ENGINE WATER LEAK - WATER TEMP PROBE REPLACED,OIL TEMP PROBE REPLACED,A/C WATER LEAKS.’.
**29.07.1991** Service defect: ‘TS - ELECTRICAL MISC. GROUND RELAY - NO 2 T/MOTOR BRUSHES REPLACED, A/C GR’S.’.
**12.12.1991** Service defect: ‘TS - NO FAULT FOUND - VIGILANCE FAILURE - LOCO CHECKED IN DEPOT,NO FAULT EVIDENT.’.
**13.12.1991** Service defect: ‘TS - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED ELECTRONIC VIG CONTROL UNIT,SEALED VIG CUT/OUT COCKS & VIG CIRCUIT/BREAKER,A/C PCS TRIPPING.’.
**13.12.1991** Service defect: ‘TS - MECHANICAL MAINTENANCE - AIR BRAKE - CHANGED A-1 & P2A AIRBRAKE VALVES,BRAKES &VIG TESTED OK.’.
**17.12.1991** Service defect: ‘TS - ENGINE WATER LEAK - WATER LEAK ON RADIATOR REPAIRED.’.
**17.12.1991** Service defect: ‘TS - LUBRICATING SYSTEM - BROKEN BOLTS REPLACED,NEW OIL ADDED,A/C OIL LEAK.’.
**17.12.1991** Service defect: ‘TS - VIGILANCE SYSTEM TO MONITOR.17/12.’.
**30.01.1992** Service defect: ‘B - CONTACTOR MISCELLANEOUS - E.B.C. CONTACTOR REPLACED.’.
**26.02.1992** Service defect: ‘UN - AIR CONDITIONING - AIR/CON CHECKED OK.’.
**26.02.1992** Service defect: ‘UN - ELECTRICAL MISC. MODULES - DATA LOGGER MEMORY MODULE CHANGED OUT.’.
**13.07.1992** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - FOG LIGHTS REPAIRED.’.
**13.07.1992** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER REPLACED A/C U/S.AIR DRYER EX DL 36 USED.’.
**13.07.1992** Service defect: ‘UN - OTHER BODY REPAIRS - COW CATCHER REPAIRED AND PAINTED.’.
**23.07.1992** Service defect: ‘UN - MECHANICAL EQUIPMENT - D/SIDE WINDSCREEN WASHER-WIPER REPLACED.’.
**31.07.1992** Service defect: ‘D - MECHANICAL EQUIPMENT - OIL TEMPERATURE PROBE REPLACED A/C WATER IN WIRING.’.
**31.07.1992** Service defect: ‘D - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE RACK CHANGED.’.
**31.07.1992** Service defect: ‘D - TRACTION MOTOR - NO.5 T/M DUST SEAL COVER REPLACED.’.
**31.07.1992** Service defect: ‘D - VIGILANCE - VIG.RELAY CLEANED.’.
**22.10.1992** Service defect: ‘A - COOLING SYSTEM RADIATOR - MECH BONDED RADIATORS FITTED, LOCO TESTED OK FOR WATER LEAKS’.
**03.12.1992** Service defect: ‘UN - EXHAUST - CHECKED AUTO EXHAUST A/C NOISY. EXHAUST DUST COVER VIBRATINGDOES NOT AFFECT BRAKING.’.
**21.01.1993** Service defect: ‘B - GENERAL - DATA LOGGER ADJUSTED.TOILET DOOR LATCH FIXED.COOLING PIPE BRACKET NEXT TO HEADER TANK REPLACED.SM/HORN TRUMPET REP.’.
**21.01.1993** Service defect: ‘B - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES CHANGED.’.
**18.02.1993** Service defect: ‘SW - AIR CONDITIONING - AIR CON MOD REPAIRS COMPLETED. RETURN AIR DUCTS REINSTALLED.’.
**19.02.1993** Service defect: ‘SW - BOGIE - BOGIE ROTATION COMPLETED. DIRECTION TESTED OK.’.
**22.03.1993** Service defect: ‘UN - BOGIE - L3 SHOCKER BRACKET REPLACED, A/C CRACKED.’.
**22.03.1993** Service defect: ‘UN - FUEL SYSTEM PUMP - L2 FUEL PUMP & ‘O’ RING CHANGED, A/C FUEL LEAK.’.
**14.04.1993** Service defect: ‘A - ENGINE - 10 AIR BOX MANIFOLD ‘O‘RING SEALS REPLACED,A/C LEAKING.’.
**14.04.1993** Service defect: ‘A - FUEL SYSTEM - L5 FUEL PUMP SEAL REPLACED,A/C FUEL LEAK.’.
**14.04.1993** Service defect: ‘A - TRACTION MOTOR BRUSHES - NO 3 T/M TOP BRUSH HOLDER REPLACED. ALL BRUSHES REPLACED ON ALL T/M’S,A/C TOO SHORT.’.
**19.07.1993** Service defect: ‘C - ALTERNATOR - 3 ALT BRUSHES REPLACED,A/C SHORT.’.
**19.07.1993** Service defect: ‘C - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED.’.
**19.07.1993** Service defect: ‘C - ENGINE - L3 POWER ASSEMBLY INSTALLED. LOCO LOAD TESTED OK.’.
**19.07.1993** Service defect: ‘C - ENGINE TURBOCHARGER/SUPERCHARGER - GAS INLET CASING BOLT REPLACED,A/C BROKEN.’.
**19.07.1993** Service defect: ‘C - GENERAL - ARM RESTS ON BOTH SEATS REPLACED.’.
**14.09.1993** Service defect: ‘UN - ENGINE - BOLT ON TURBO GAS INLET CASING REPLACED, A/C BROKEN. ENGINE TESTED, NO EXHAUST LEAKS FOUND.’.
**14.09.1993** Service defect: ‘UN - EXHAUST - EXHAUST ON LHS REMOVED - FLANGE REWELDED & FITTED WITH NEW GASKETS.’.
**14.09.1993** Service defect: ‘UN - TURBO INLET COVER TO REPLACE NEXT SERVICE.14/9.’.
**30.09.1993** Service defect: ‘A - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INLET COVER REPLACED.’.
**30.09.1993** Service defect: ‘A - EXHAUST - O/SIDE EXHAUST FLANGE BETWEEN 3 & 4 HEADS WELDED, A/C CRACKED.’.
**30.09.1993** Service defect: ‘A - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE REPAIRED.’.
**30.09.1993** Service defect: ‘A - MECHANICAL MAINTENANCE - SOUND WARNING - ONE FRONT HORN REPLACED, A/C BROKEN.’.
**30.09.1993** Service defect: ‘A - OTHER BODY REPAIRS - TEMPORARY REPAIRS CARRIED OUT ON FRONT BODY, OBS/SIDE.’.
**06.11.1993** Service defect: ‘UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN CHANGE COMPLETED AND TESTED OK.’.
**16.12.1993** Service defect: ‘B - BOGIE - 8 CRACKED PEDESTAL LINERS RE-WELDED, A/C CRACKED. D/SIDE ‘B‘END SHOCK ABSORBER REPLACED.’.
**16.12.1993** Service defect: ‘B - EXHAUST - CRACKS IN CENTRE EXHAUST FLANGE JOINTS CHECKED OK.’.
**16.12.1993** Service defect: ‘B - FUEL SYSTEM PUMP - L2

FUEL PUMP CHANGED A/C LEAKING. WARRANTY CLAIM. L2 FUEL PUMP CHANGED AGAIN, A/C FIST ONE LEAKING ALSO.'.

**16.12.1993** Service defect: 'B - OTHER BODY REPAIRS - OBS. SIDE WINDOW REPLACED A/C CRACKED. D/S QUARTER SECTION ON COW CATCHER RE-WELDED.'.

**16.12.1993** Service defect: 'B - L3 LINKAGE TO INJECTOR PUMP TO MONITOR A/C WORN.'.

**16.12.1993** Service defect: 'B - 15/12/93.'.

**07.03.1994** Service defect: 'A - BATTERY MAINTENANCE - ALL BATTERIES ROLLERS REPLACED.'.

**07.03.1994** Service defect: 'A - COOLING SYSTEM RADIATOR - MAIN RADIATOR WATER PIPE SUPPORTS REPAIRED.'.

**07.03.1994** Service defect: 'A - ENGINE - L3 LINKAGE TO INJECTOR PUMP CHECKED OK, A/C WORN.'.

**07.03.1994** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN CHECKED OK.'.

**07.03.1994** Service defect: 'A - 2 NEW LATCHES FOR BATT SWITCH DOOR AND COMPUTER'.

**07.03.1994** Service defect: 'A - DOOR REQ'D.7/3.'.

**07.04.1994** Service defect: 'UN - OTHER BODY REPAIRS - O/SIDE WINDOW REPLACED A/C BROKEN,D/SIDE SEAT REPAIRED'.

**14.04.1994** Service defect: 'UN - ENGINE - FUEL PUMP BASE SEAL AND INJECTOR COPPER WASHERS CHANGED ON L2,L3, L4 AND R4. LOAD TESTED OK.'.

**14.04.1994** Service defect: 'UN - TRACTION MOTOR - NO' 2,3,4 & 5 CONCERTINA'S REPLACED, A/C SPLIT.'.

**14.04.1994** Service defect: 'UN - NO 6 CONCERTINA TO REPLACE, NIL STOCK. 14/4.'.

**07.05.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DATA LOGGER CHANGED EX EL 63, A/C SPEEDO NOT WORKING.'.

**07.05.1994** Service defect: 'UN - TRACTION MOTOR - TWO T/MOTOR BELLOWS REPLACED.'.

**04.06.1994** Service defect: 'F - DYNAMIC BRAKE - DYN BLOWER MOTOR BRUSHES CHANGED.'.

**04.06.1994** Service defect: 'F - EARTH FAULT MISCELLANEOUS - FUEL PUMP BRUSHES CHANGED.'.

**04.06.1994** Service defect: 'F - ENGINE - NO 7 & 8 AIRBOX O-RINGS REPLACED, A/C BLOWING OUT.'.

**04.06.1994** Service defect: 'F - GENERAL - SLIDE MECHANISM ON DR/SIDE SEAT REPAIRED.'.

**04.06.1994** Service defect: 'F - MECHANICAL MAINTENANCE - AIR BRAKE - FLOWMETER REPLACED. DRIVERS BRAKE VALVE CHANGED 2 X 135 SAFETY VALVES CHANGED.'.

**23.06.1994** Service defect: 'UN - ENGINE - R3 POWER ASSEMBLY CHANGED.'.

**23.06.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - NEW TURBO INSTALLED, 220KPA BOOST 2275KW, CHECKED OK.'.

**EL 52**

Details: locomotive 'EL 52 S' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 05.09.1990
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 14.04.1997 | | |
| Last Lift: | 10.06.1994 | | |
| SW Service Mileage: | 1484500 KM | SW Service Date: | 04.10.1996 |
| A Service Mileage: | 1516988 KM | A Service Date: | 29.11.1996 |
| B Service Mileage: | 1586014 KM | B Service Date: | 04.03.1997 |
| C Service Mileage: | 1179532 KM | C Service Date: | 02.08.1995 |
| D Service Mileage: | 1454316 KM | D Service Date: | 30.08.1996 |
| F Service Mileage: | 898521 KM | A Service Date: | 10.06.1994 |
| WT Service Mileage: | 829556 KM | WT Service Date: | 23.03.1994 |
| US Service Mileage: | 1615897 KM | A Service Date: | 14.04.1997 |

**24.09.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RADIATOR FAN PANEL REPLACED A/C FAILED.'.

**29.09.1990** Service defect: 'UN - 1'.

**03.10.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NO PCS SWITCH FUNCTION,SWITCH (S/C188565)SQUARE D TYPE G5G3.SET,CLOSE 60 OPEN 45,FITTED IN SERIES WITH EXISTING PKS.'.

**05.10.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - WHEEL RECORD TAKEN LHS 2,2,2,1,2,2.RHS 2,2,2,2,2,2.65MM THICK TYRES.'.

**05.10.1990** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - LOW METER READING-CONTROL TO EARTH OF 7 K OHMS,TO BE MONITORED.'.

**05.10.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - NOTCH 1 STALL AMPS ONLY 200 (SHOULD BE 350+OR-50).'.

**05.10.1990** Service defect: 'SW - FUEL SYSTEM - FUEL TANK LEAK CHECKED.'.

**05.10.1990** Service defect: 'SW - FUEL SYSTEM PUMP - FUEL LEAK,R5 PUMP REMOVED,'O'RING MISSING,NEW FITTED.'.

**05.10.1990** Service defect: 'SW - GENERAL - FIRST MONTHLY SERVICE CARRIED OUT.ENGINE RETORQUE COMPLETED'.

**05.10.1990** Service defect: 'SW - LUBRICATING SYSTEM OIL COOLER - OIL COOLER LEAK CHECKED,TO BE MONITORED.'.

**05.10.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK,NO1 MAIN RESERVOIR DRAIN VALVE LEAKING,TEFLON SEALSROTATED.'.

**15.10.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BFR PANEL FUSE BLOWN.HR JOINT RE LUGGED.'.

**20.10.1990** Service defect: 'UN - GENERAL LOSS OF POWER - FAULT 44E4 GDM,BAD.GDM & EXC REPLACED,ALL WIRES CHECK OK.'.

**11.12.1990** Service defect: 'UN - BODY REPAIRS - ACCIDENT - COWCATCHER REPAIRED.'.

**16.01.1991** Service defect: 'UN - OTHER BODY REPAIRS - COMPRESSOR FLOOR WELDED A/C CRACKED.'.

**23.01.1991** Service defect: 'TS - BROKEN PIPE - NEW BARREL UNION FITTED TO FRONT TRAIN PIPE AND TWO

DAMAGED AIR HOSES REPLACED A/C HITTING BULLOCKS'.

**04.02.1991** Service defect: 'TS - GENERAL UNABLE TO LIFT LOAD - NOT LOADING UP-NO FAULT FOUND.'.

**11.02.1991** Service defect: 'TS - FUEL SYSTEM PUMP - L4 PUMP TIMING ADJUSTED A/C MOTOR TIMING OUT.'.

**13.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER REPLACED A/C FAULTY'.

**18.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR CHECKED OK IN DEPOT.'.

**23.02.1991** Service defect: 'UN - BOGIE - SHOCKER BRACKET REPLACED 'B'END BOGIE,A/C BROKEN.'.

**23.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TESTS-ALL STRAINERS CLEANED. DRIVERS VALVE REPAIRED.'.

**01.03.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - G.R.PROTECTION MODULE REMOVED & REPLACED FROM EL 55.'.

**01.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR SYSTEMS FLUSHED,TESTED OK.'.

**11.03.1991** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - 2 SPEEDO'S REPLACED.'.

**11.03.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - BRUSH HOLDERS RELPLACED.'.

**27.03.1991** Service defect: 'TS - ELECTRICAL MISC. MODULES - 'RC'WIRE ON GDM NOT CONNECTED CORRECTLY,BOTH RESISTORS NOW IN SERIES RC & RD,A/C 44E4 FAULT.'.

**02.04.1991** Service defect: 'UN - BOGIE - BROKEN SUPPORTS - R.1 & R.3 SHOCK/ABSORBER SUPPORTS WELDED.'.

**17.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE FAULT REPAIRED,A/C BRAKES BLOWING.'.

**06.05.1991** Service defect: 'TS - RETURN PG FOR REPAIRS & RETRO-FIT.'.

**08.05.1991** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATOR LEAK - RADIATOR CORE BOLTS TIGHTENED.'.

**08.05.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MOUNTING - REPAIRED. - AIR SYSTEM FLUSHED WITH ANTI-RUST.'.

**08.05.1991** Service defect: 'SW - OTHER BODY REPAIRS - - O/S DESK LIGHT REPLACED,WORKING OK.'.

**08.05.1991** Service defect: 'SW - OTHER BODY REPAIRS - GONINAN RETRO/FIT - COMPLETED. - LOW NOTE HORN REPAIRED.(DIAPHRAM JAMMED)'.

**18.05.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - LHS RADIATOR CHECKED FOR LEAKS,NONE FOUND.'.

**07.06.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BOTH NO 3 CONTROL HOSES 'A'END REPLACED.'.

**07.06.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - NO 4 T/M,ALL BRUSHES REPLACED,FLASHOVERS,TOP & BOTTOM BRUSH HOLDERS REMOVED & CLEANED,REPLACED.'.

**07.06.1991** Service defect: 'A - CRACKS AROUND COMPRESSOR & RADIATOR FAN MOUNTING'.

**07.06.1991** Service defect: 'A - LEGS TO BE WELDED.RADIATOR LEAKAGE TO BE MONITORED'.

**07.06.1991** Service defect: 'A - FILTER FOR SALEM AIR DRYER NEED REPLACING,NILSTOCK'.

**07.06.1991** Service defect: 'A - MPC.11/6.'.

**11.06.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO1 T/M,2 SIDE BOTTOM BRUSHES MISSING,REPLACED.BRUSH HOLDER ACCESS COVER REPLACED,A/C MISSING.NO2 T/M,2 SIDE BOTTOM'.

**17.06.1991** Service defect: 'UN - BOGIE - BOGIES REVERSED & DIRECTION TESTED OK.'.

**01.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN REMOVED,CLEANED & REFITTED.'.

**01.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - STEPS REPLACED,LHS EX EL55,RHS REBUILT & REMOUNTED.'.

**26.07.1991** Service defect: 'TS - BOGIE - SHOCKER BOLTS RETORQUED.'.

**26.07.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 3 T/MOTOR REPLACED, A/C GR'S.'.

**06.09.1991** Service defect: 'C - COOLING SYSTEM RADIATOR - RADIATOR HATCH REPAIRED, A/C CRACKS.'.

**09.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - TOILET DOOR CATCH REPAIRED. OBSERVERS SIDE WINDOWREPLACED.'.

**21.10.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS CHANGED.'.

**21.10.1991** Service defect: 'UN - GENERAL - MIRRORS REPAIRED.'.

**11.12.1991** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.

**11.12.1991** Service defect: 'SW - OTHER BODY REPAIRS - STEP REPAIRS COMPLETED.'.

**14.01.1992** Service defect: 'UN - BOGIE - DERAILMENT - REPAIRS COMPLETED. - FLANGE READINGS TAKEN,TO BE PROFILED.'.

**28.01.1992** Service defect: 'UN - BOGIE - SPREADER BARS REPLACED,A/C BENT.R6 BOLT REPLACED ON REAR SHOCKER MOUNTING.'.

**03.03.1992** Service defect: 'B - COOLING SYSTEM RADIATOR - RADIATOR GASKET TIGHTENED OK.'.

**03.03.1992** Service defect: 'B - GENERAL - BOTH MIRRIRS REPLACED.FRIDGE REPAIRED.'.

**03.03.1992** Service defect: 'B - OTHER BODY REPAIRS - CAMLOCK FITTING ON TOILET FITTED OK.'.

**03.03.1992** Service defect: 'B - SALEM AIR DRYER REQ.ARM REST ALSO REQ.NIL STOCK.'.

**31.03.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE PRESSURE ADJUSTED UP A/C PCS OPERATING. DRIVERS BRAKE VALVE REPLACED.A/C NOISY.'.

**31.03.1992** Service defect: 'UN - OTHER BODY REPAIRS - D/SIDE BLIND REPAIRED.'.

**30.04.1992** Service defect: 'TS - EXHAUST - EXHAUST MANIFOLD REPAIRED'.

**26.05.1992** Service defect: 'A - FUEL SYSTEM - FUEL 'O' RING SEAL REPLACED,A/C FUEL LEAK.'.

**26.05.1992** Service defect: 'A - NEW RADS REQ'D,A/C WATER LEAK.26/5.'.

**29.05.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO DRIVE SWAPPED.'.

**29.05.1992** Service defect: 'UN - TRACTION MOTOR - NO 2 & NO 6 T/MOTORS SWAPPED AROUND.GEAR CASE ON NO 4 T/M REPAIRED & REPLACED.'.

**05.06.1992** Service defect: 'SW - COOLING SYSTEM

RADIATOR - RADIATORS CHANGED OUT,A/C JOINT LEAKING IN RADIATOR BANK. RADIATOR HATCH SUPPORT MOD COMPLETED.'.

**05.06.1992** Service defect: 'SW - ENGINE - ENGONE HATCH FASTENERS REPAIRED.'.

**19.08.1992** Service defect: 'D - MECHANICAL EQUIPMENT BRAKE VALVE - MAIN RES. SAFETY VALVES REPLACED WITH OLD ONES A/C LEAKING.'.

**19.08.1992** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - SALEM AIR DRYER REPLACED.'.

**19.08.1992** Service defect: 'D - TRACTION MOTOR - COMPLETE BRUSH CHANGE AND 2 BRUSH HOLDERS REPLACED AT TOP A/C HAMMER PIVOTING PIN SLIDING ACROSS BECAUSE RETAINING PIN'.

**20.08.1992** Service defect: 'UN - BOGIE - BRAKES ADJUSTED AND TAKEN UP A HOLE.'.

**20.08.1992** Service defect: 'UN - ENGINE WATER LEAK - WATER PIPE REPAIRED.'.

**28.09.1992** Service defect: 'UN - TRACTION MOTOR - NO 4 T/MOTOR TOP BRUSH HOLDER REPLACED,A/C OLD ONE FELL APART.'.

**11.11.1992** Service defect: 'A - BOGIE - BOGIE CHANGE COMPLETED.'.

**11.11.1992** Service defect: 'A - TRACTION MOTOR - T/MOTOR WIRING RECONNECTED, DIRECTION TESTED OK.'.

**26.12.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGE COMPLETED.'.

**22.01.1993** Service defect: 'B - BATTERY MAINTENANCE - BATTERY SLIDE RAILS TEMPORARILY REPAIRED.'.

**22.01.1993** Service defect: 'B - LUBRICATING SYSTEM - OIL CHANGED.'.

**22.01.1993** Service defect: 'B - NEW BATTERY SLIDE RAILS REQUIRED FOR NEXT SERVICE.'.

**22.01.1993** Service defect: 'B - BOGIE ROTATION REQUIRED SOON A/C 26# ON RIGHT'.

**22.01.1993** Service defect: 'B - FLANGE. 22/1/93.'.

**28.01.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.

**28.01.1993** Service defect: 'SW - BROKEN PIPE - WATER VENT PIPE ON HEADER TANK REPLACED. 'ENZED' CALLED AND MADE NEW HOSE.'.

**14.04.1993** Service defect: 'A - ELECTRICAL MISC. MODULES - DATA LOGGER MEMORY MODULE REPLACED.'.

**14.04.1993** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORNS 'A' & 'B'END REPAIRED.'.

**14.04.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - TOP BRUSH HOLDER ON NO 1 T/M REPLACED,A/C SPRING PIVOT PIN FALLEN OUT OF LOCATING HOLES.'.

**01.06.1993** Service defect: 'SW - ENGINE - AIR BOX SEALS REPLACED A/C LEAKING SEALS.'.

**01.06.1993** Service defect: 'SW - LUBRICATING SYSTEM - ENGINE OIL CHANGED A/C LAB REPORT.'.

**16.07.1993** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - NO 2 & 5 WHEELS SWAPPED,A/C NO 5 WHEEL WEAR.'.

**16.07.1993** Service defect: 'C - CAM SHAFT - CAMSHAFT CHANGE COMPLETED.'.

**16.07.1993** Service defect: 'C - COOLING SYSTEM RADIATOR - RADIATOR HOSES TIGHTENED,A/C LEAKS.'.

**16.07.1993** Service defect: 'C - GENERAL - ARM REST REPLACED.'.

**26.08.1993** Service defect: 'UN - BOGIE - BOGIE REPAIRS COMPLETED A/C DAMAGE TO BRAKE HANGERS WHEN A SPREADER BAR CAME OFF IN TRAFFIC. SPREADER BAR REPLACED.'.

**26.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L3 AXLE SAND HOSES AND PIPES REPLACED A/C MISSING.'.

**26.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END RHS TRAIN PIPE COCK REPLACED A/C LEAKING. 'B'END RHS BRAKE LEVERS BENT. REPLACED.'.

**26.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORN TRUMPETS MISSING. REPLACED.'.

**26.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - W/SCREEN WASHERS REPLACED A/C DESTROYED WHEN SPREADER BAR CAME OFF. BOTH MIRRORS REPLACED. FRIDGE LATCH REPAIRED.'.

**26.08.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - T/M BRUSHES MEASURED.'.

**22.09.1993** Service defect: 'A - ALTERNATOR - ALL ALT BRUSHES REPLACED.'.

**22.09.1993** Service defect: 'A - BATTERY MAINTENANCE - BATTERY LEAD,DRIVERS SIDE REPAIRED.'.

**22.09.1993** Service defect: 'A - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED, A/C LEAKING.'.

**22.09.1993** Service defect: 'A - ENGINE - COVER REPLACED OVER MICHIANA TANK.'.

**22.09.1993** Service defect: 'A - ENGINE TURBOCHARGER/SUPERCHARGER - WATER FLEXIBLE LINE MODIFICATION TO TURBO COMPLETED.'.

**22.09.1993** Service defect: 'A - EXHAUST - EXHAUST FLANGE CRACKS AT TURBO & CENTRE JOINS REPAIRED.'.

**22.09.1993** Service defect: 'A - D/S MARKER LIGHTS NEGATIVE DOWN TO EARTH,DISCONNEC'.

**22.09.1993** Service defect: 'A - TED. TO INVESTIGATE WHEN TIME PERMITS.22/9.'.

**21.10.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - 100M COUNTER LIGHT WIRED & TESTED OK.'.

**21.10.1993** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT LENS REPLACED.'.

**21.10.1993** Service defect: 'UN - GENERAL - D/S WIPER REPAIRED.'.

**21.10.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED.'.

**06.11.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - RADIATOR FAN PANEL REPLACED, TESTED OK.'.

**17.11.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CAB COMPUTER CHANGED, A/C FAN HI/LOW PHASE CURRENTS WHERE OUT OF TOLERANCE, RFP CHANGED.'.

**17.11.1993** Service defect: 'TS - ENGINE GOVERNOR - GOVERNOR REPLACED, A/C MAJOR OIL LEAK.'.

**15.12.1993** Service defect: 'B - EARTH FAULT MISCELLANEOUS - EARTH ON MARKER LIGHTS REPAIRED.'.

**15.12.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - EXC AUX. PANELS REPLACED A/C BRAINLINE FAULTS IN SELF TEST. SELF TEST CHECKED OK. ORIGINAL CAB PANEL RE-INSTALLED.'.

**15.12.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - TRAINPIPE LEAK ON

OBSERVERS SIDE, 'A'END REPAIRED.'.

**15.12.1993** Service defect: 'B - OTHER BODY REPAIRS - THREE ENGINE ROOM HATCH LATCHES REPLACED, ACCOUNT BROKEN. 'A'END OBSERVERS SIDE COUPLER PULL ROD STRAIGHTENED.'.

**15.12.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - COMPLETE TRACTION MOTOR BRUSH CHANGE.'.

**15.12.1993** Service defect: 'B - BAD VIBRATIONS IN NOTCH 7 AND 8, POSSIBLE PUMP'.

**15.12.1993** Service defect: 'B - TIMING. 15/12/93.'.

**08.03.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - AIR DRYER C/B REPLACED, A/C U/S.'.

**08.03.1994** Service defect: 'A - MECHANICAL EQUIPMENT - TWIN TOWER AIR DRYER CHANGED, A/C NOT BLOWING AIR.'.

**08.03.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - TOP BRUSH HOLDER REPLACED IN NO 1 T/MOTOR, A/C PIN BROKEN.'.

**14.04.1994** Service defect: 'UN - GENERAL - D/S WIPER REPAIRED.'.

**14.04.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE LEAK REPAIRED.'.

**10.06.1994** Service defect: 'F - ELECTRICAL MISCELLANEOUS - GAUGE LIGHT RESISTOR REPAIRED FOR LOW SETTING ON GAUGE LIGHTS.'.

**10.06.1994** Service defect: 'F - ENGINE AIR FILTERS - D/SIDE ENGINE AIR FILTERS REPLACED.'.

**10.06.1994** Service defect: 'F - FUEL SYSTEM - OIL LEAK AT VICTAULIC COUPLING UNDER TURBO TIGHTENED UP.'.

**10.06.1994** Service defect: 'F - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO DRAIN VALVE ON REAR MAIN RES REPAIRED. A1 CHARGING CUT OFF VALVE CHANGED. 'B'END D/S B/P HOSECHANGE'.

**10.06.1994** Service defect: 'F - OTHER BODY REPAIRS - DRIVERS SIDE STEP (BOTTOM) WELDED UP.'.

**10.06.1994** Service defect: 'F - NO 2 LEFT HAND EXHAUST VALVE SEAL TO MONITOR.10/6.'.

**EL 53**

Details: locomotive 'EL 53 E' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 26.09.1990
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 24.03.1997 | | |
| Last Lift: | 29.06.1994 | | |
| SW Service Mileage: | 1571074 KM | SW Service Date: | 24.03.1997 |
| A Service Mileage: | 1407246 KM | A Service Date: | 31.07.1996 |
| B Service Mileage: | 1352327 KM | B Service Date: | 01.05.1996 |
| C Service Mileage: | 1211012 KM | C Service Date: | 01.11.1995 |
| D Service Mileage: | 1540814 KM | D Service Date: | 01.02.1997 |
| F Service Mileage: | 861811 KM | A Service Date: | 29.06.1994 |
| WT Service Mileage: | 412791 KM | WT Service Date: | 24.06.1992 |
| US Service Mileage: | 1551035 KM | A Service Date: | 21.02.1997 |

**02.10.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NO PCS SWITCH FUNCTION,SWITCH (S/C188565)SQUARE D TYPE G5G3.SET,CLOSE 60 OPEN 45,FITTED IN SERIES WITH EXISTING PKS.'.

**05.10.1990** Service defect: 'UN - NO FAULT FOUND - COMP.CONTACTOR BOOKED AS FAULTY-CHECKED OK'.

**05.10.1990** Service defect: 'UN - TRACTION MOTOR - NO.2 T/MOTOR GROUND RELAY-STILL CUT OUT A/C NO BRUSHES'.

**06.10.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR FAULT REPORTED.SELF LOAD TESTED CARRIED OUT, UNABLE TO FAULT.'.

**06.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - DRIVERS SIDE SPEEDO REPORTED NOT WORKING,TESTED UNABLE TO FAULT.'.

**06.10.1990** Service defect: 'UN - TRACTION MOTOR BRUSHES - BRUSH ADJUSTED NO3 TM.'.

**06.10.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO2 TM CUT OUT A/C FLASHOVER.ALL BRUSHES CHANGED,FLASHOVER PIGTAILS AGAINST HOLDER.'.

**10.10.1990** Service defect: 'UN - FUEL SYSTEM PUMP - L4 FUEL PUMP CHANGED A/C STUCK.'.

**10.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO BOOKED ERRATIC,CHECKED OK IN DEPOT.'.

**27.10.1990** Service defect: 'TW - BOGIE - LUBRICANT CHECK - 2 BAGS(4,5&6),4 BAGS(1,2&3).'.

**01.11.1990** Service defect: 'TS - RETURNED TO MEDD.A/C COMPRESSOR FAILURE. (1/11)'.

**12.11.1990** Service defect: 'TS - FUEL SYSTEM PUMP - L1 FUEL PUMP CHANGED.'.

**04.01.1991** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - SQUARE 'D' CHANGED.'.

**04.01.1991** Service defect: 'A - GENERAL ACCIDENT - HIT BULLOCK- VARIOUS REPAIRS COMPLETED.'.

**01.02.1991** Service defect: 'TS - GENERAL - TOILET REPAIRED A/C NOT FLUSHING.'.

**05.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRANSDUCER - BRAKE TRANSDUCER MANIFOLD BYPASSED A/C AWAIT PARTS. LOCO REQ'D FOR TRAFFIC.'.

**08.02.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PRESSURE TRANSDUCERS REPLACED UNDER DASH.'.

**08.02.1991** Service defect: 'UN - R2 FUEL PUMP TO REPLACE,INDEPENDANT CONTINUALLY'.

**08.02.1991** Service defect: 'UN - BLOWING IN APPLICATION,DOOR LATCHES IN ENGINE ROOM'.

**08.02.1991** Service defect: 'UN - TO REPAIR,NOSE SUSPENSION PINS @ PACKAGE TO REPAIR'.

**08.02.1991** Service defect: 'UN - A/C BADLY WORN.*'.
**11.02.1991** Service defect: 'TS - DYNAMIC BRAKE - NO FAULT FOUND ,OPERATION TESTED OKAY IN DEPOT.'.
**11.02.1991** Service defect: 'TS - OTHER BODY REPAIRS - BLIND REPAIRED'.
**21.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE EQUIPMENT CHANGED OUT SOME READJUSTMENT MADE. 30 CDW ADJUSTED. OK FOR TRAFFIC.'.
**26.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE FLUSHED WITH DIESEL,MAIN RES FLUSH WITH DIESEL. AIR TESTED OK.CONTROL MECHANISM REPLACED A/C COULDN'T REMOVE'.
**26.03.1991** Service defect: 'UN - DYNAMIC BRAKE - TEST RUN- DYN,SLIGHT SURGE AT EXTENDED RANGE DROPOUT POINT, OTHERWISE OK.'.
**26.03.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CLOPS PRESS SWITCH RESET.'.
**04.04.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - BRUSH HOLDERS IN NO4 T/MOTOR (TOP) REPLACED A/C PIN OUT OF POSTION. NO5 T/MOTOR (BOTTOM) REPLACED A/C AS ABOVE.'.
**11.04.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - GROUND RELAY - TRACTION MOTOR BRUSHES REPLACED A/C WRONG TYPE FITTED. ALL BRUSHES REPLACED IN NO2 T/MOTOR AND COMM'.
**18.04.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO2 T/M REPLACED,A/C FLASHOVERS.'.
**23.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FILTER FITTED UNDER DASH TO 30CW MODULE.'.
**03.05.1991** Service defect: 'UN - ENGINE - MODIFICATIONS - GONINAN MODIFICATION COMPLETED.'.
**10.05.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE SYSTEM - FLUSHED OUT WITH EXIT/RUST.'.
**10.05.1991** Service defect: 'SW - OTHER BODY REPAIRS - MODIFICATIONS - GONINAN RETRO/FIT PROGRAMME COMPLETED.'.
**30.05.1991** Service defect: 'UN - BOGIE - R6 SHOCKER BRACKET REPLACED EX EL 54.'.
**30.05.1991** Service defect: 'UN - GENERAL - MIRRORS REPLACED EX EL 54.'.
**06.07.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS - OBS/SIDE SPEEDO CONNECTIONS REPAIRED,A/C LOOSE.'.
**06.07.1991** Service defect: 'A - TRACTION MOTOR - BRUSH HOLDER CLEARANCE TO COMMUTATOR CHECKED OK.'.
**06.07.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - 2 BRUSHES CHANGED NO'S 4 & 6 T/M'S A/C FRAYED PIGTAILS.'.
**06.07.1991** Service defect: 'A - L/H RADIATOR LEAKING TO MONITOR.9/7.'.
**23.07.1991** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED,LOCO MOVEMENT & BRAKE TESTED OK.'.
**13.09.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR MOUNTS WELDED.RADIATORS RETORQUED.'.
**13.09.1991** Service defect: 'UN - GENERAL - TOILET REPLACED.'.
**30.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - SIDE PANEL FITTED & PAINTED.'.
**07.10.1991** Service defect: 'C - TRACTION MOTOR BRUSHES - 48 BRUSHES CHANGED A/C SOME BRUSHES THROUGH TO PIGTAILS. NO.5 T/M BRUSH HOLDER REPLACED A/C DAMAGE A/C PIGTAIL STUDS.'.
**07.10.1991** Service defect: 'C - COMP UNLOADER SUPPLY LINE BROKEN. TO REPLACE.'.
**08.10.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS TURNED.'.
**16.10.1991** Service defect: 'SW - GENERAL - GONINAN MODS COMPLETED.'.
**07.11.1991** Service defect: 'TS - BOGIE - L6 SNUBBER BOLT REPLACED,A/C CRACKED.'.
**07.11.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - COMP. LOW OIL SWITCH REPAIRED,N.C. CONTACTS USED.'.
**07.11.1991** Service defect: 'TS - FUEL SYSTEM - FUEL LEAK OBS/SIDE SIGHT GLASS REPAIRED.'.
**07.11.1991** Service defect: 'TS - GENERAL - WINDSCREEN WIPER REPLACED,A/C U/S.MIRROR REPAIRED,D & OBS/ SIDE.'.
**07.11.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN REPLACED.'.
**07.11.1991** Service defect: 'TS - OTHER BODY REPAIRS - D/SIDE STEP WELDED.'.
**07.11.1991** Service defect: 'TS - RADIATOR/PRESSURISING FAN - RFP PANEL REPLACED,A/C NOT GIVING 1/2 & 1/4 SPEED RAD FAN.'.
**24.12.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMP. REPAIRED A/C NOT ROTATING.'.
**01.01.1992** Service defect: 'A - COOLING SYSTEM - 10 LITRES OF COOLANT ADDED.'.
**01.01.1992** Service defect: 'A - COOLING SYSTEM RADIATOR - L/H RADIATOR CHECKED.-NO LEAKS FOUND.'.
**01.01.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - MANUAL POWER POT REPLACED.'.
**01.01.1992** Service defect: 'A - MAIN GENERATOR BRUSHES - 5 BRUSHES CHANGED.-BLOWN OUT A/C DUSTY.'.
**01.01.1992** Service defect: 'A - MECHANICAL EQUIPMENT - ALL NOSE SUSPENSION PINS CHANGED.'.
**01.01.1992** Service defect: 'A - R6 SHOCKER BRACKET TO REPLACE. A/C BROKEN.'.
**01.01.1992** Service defect: 'A - OBS.FRONT WINDOW CRACKED -TOP CORNER.-NIL IN STOCK'.
**05.02.1992** Service defect: 'UN - AIR CONDITIONING - AIR/CON UNIT REPLACED BY SIGMA.'.
**05.02.1992** Service defect: 'UN - GENERAL - STEP MODS COMPLETED.'.
**27.03.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - D/SIDE TRAINLINE BRAKE PIPE REPLACED.A/C HOLED.'.
**27.03.1992** Service defect: 'B - OTHER BODY REPAIRS - D/SIDE SLIDING WINDOW REPLACED.'.
**27.03.1992** Service defect: 'B - TRACTION MOTOR - T/M SUPPORT BEARING BOLTS REWIRED.'.
**29.04.1992** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR CHANGED A/C SEAL LEAKING.'.
**15.06.1992** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATOR BOLTS RETORQED.'.
**15.06.1992** Service defect: 'A - GENERAL - REPLACED TOILET OUTLET VALVE WITH SHUT OFF VALVE.'.
**15.06.1992** Service defect: 'A - TRACTION MOTOR BRUSHES -

T/MOTOR BRUSH HOLDERS RELOCATED.'.

**25.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS STEPS STRAIGHTENED .-A/C BENT.'.

**10.07.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RE-CON. RADIATOR FITTED AND TESTED OK.'.

**10.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - SERVICE WATER TANK LEAK REPAIRED.TANK FITTED AND TESTED OK.'.

**27.07.1992** Service defect: 'TS - LUBRICATING SYSTEM - OIL CHANGED.'.

**28.07.1992** Service defect: 'TS - ENGINE - VALVE TIMING CHECKED OK.'.

**28.07.1992** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMP TIMING CHECKS OK.'.

**28.07.1992** Service defect: 'TS - OTHER BODY REPAIRS - NEW HORN BRACKETS FITTED.'.

**28.07.1992** Service defect: 'TS - VIGILANCE - D/SIDE VIG.BUTTON REPLACED.'.

**19.08.1992** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATOR CHANGED A/C SERIOUS WATER LEAK.'.

**19.08.1992** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - FRONT WHITE MARKER LIGHT FITTING REPLACED A/C SHORT.'.

**19.08.1992** Service defect: 'SW - FUEL SYSTEM PUMP - FUEL PUMP R2 RETORQUED A/C LEAKING.'.

**19.08.1992** Service defect: 'SW - OTHER BODY REPAIRS - OBSERVERS SIDE FRONT WINDSCREEN REPLACED A/C CRACKED.'.

**10.09.1992** Service defect: 'D - ELECTRICAL MISCELLANEOUS - PANEL REPLACED ON 19 BOARD IN EXC. COMPUTER.'.

**10.09.1992** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE RACK CHANGED. TWIN TOWER DRYER CHANGED.'.

**17.09.1992** Service defect: 'TS - ELECTRICAL MISC. MODULES - 'SCM' MODULE CHANGED A/C FAULTY.'.

**28.09.1992** Service defect: 'UN - TRACTION MOTOR - NO 5 T/MOTOR GEARCASE BOLTS REPLACED, A/C BROKEN.'.

**26.11.1992** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATOR MODS COMPLETED.'.

**03.12.1992** Service defect: 'TS - R2 CYLINDER LINER SCORED.TO CHANGE.3/12.'.

**08.12.1992** Service defect: 'TS - ENGINE - NO 2 POWER ASSEMBLY CHANGED, LOAD TESTED OK.'.

**08.12.1992** Service defect: 'TS - GENERAL - WIPER MOTOR FITTED TO LOCO & TESTED OK.'.

**08.12.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - L/H TRAIN PIPE COCK REPAIRED.'.

**08.12.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN & BRACKET REPAIRED.'.

**14.01.1993** Service defect: 'UN - ENGINE - ENGINE TIMING CHECKED.'.

**14.01.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK R2 FOUND,LOOSE LOCK NUT REPLACED.TESTED OK.'.

**26.01.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED. BOLT REMOVED FROM OIL PIPE ON REAR OF MICHIANA TANK AND REPLACED. DRAIN UNBLOCKED.'.

**05.02.1993** Service defect: 'UN - ENG ROOM & ALT AREA TO WASH & CHECK FOR OIL LEAKS.'.

**05.02.1993** Service defect: 'UN - 5/2.'.

**10.02.1993** Service defect: 'B - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.

**10.02.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES CHANGED.'.

**18.02.1993** Service defect: 'UN - COOLING SYSTEM WATER PUMP - NEW WATER PUMP FITTED. LOCO LOAD TESTED OK.'.

**18.02.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - C.O.P. SWITCH TESTED OK.'.

**18.02.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - EDUCTOR CLEANED & CHECKED OK.'.

**18.02.1993** Service defect: 'UN - SPIN AIR FILTER REQ'D FOR T/M,TOP LEFT. O/SIDE'.

**18.02.1993** Service defect: 'UN - INSULATORS TO MONITOR A/C CRACKED & CHIPPED.18/2.'.

**03.04.1993** Service defect: 'UN - AIR CONDITIONING - AIR/CON MODS COMPLETED.'.

**03.04.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 2 WHEEL SET REPLACED,A/C THIN FLANGE.'.

**29.04.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED,4 FRAYED PIGTAILS IN NO 1 T/MOTOR.'.

**31.05.1993** Service defect: 'UN - DYNAMIC BRAKE - GRID BLOWER TOO SLOW - RESET.'.

**13.07.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET CHANGE COMPLETED. DIRECTION TESTED OK.'.

**13.07.1993** Service defect: 'UN - GENERAL - WINDSCREEN WIPER REPAIRED,D/S WIPER BLADE REPLACED.'.

**24.07.1993** Service defect: 'C - OTHER BODY REPAIRS - DRIVERS SIDE ROOF HATCHES FRONT & BACK TIE WRAPPED DOWN, A/CCATCHES U/S.'.

**28.07.1993** Service defect: 'SW - BOGIE - R4 SHOCKER BOLTS REPAIRED. LOCO MOVEMENT TESTED OKAY.'.

**28.07.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO'S 1 & 5 WHEELSETS SWAPPED POSITION, A/C WHEEL WEAR.'.

**19.08.1993** Service defect: 'SW - BOGIE - BOTH BOGIES CHANGED.'.

**19.08.1993** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO WATER PIPE MOD. DONE.'.

**19.08.1993** Service defect: 'SW - EXHAUST - EXHAUST CRACK REPAIRED.'.

**19.08.1993** Service defect: 'SW - GENERAL - AIR FRIDGE REPAIRED.'.

**05.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE WINDOW REPLACED, A/C BROKEN.'.

**18.09.1993** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR CHANGED, A/C OIL LEAKS. LOCO LOAD TESTED OK, 2300KW'.

**18.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - ROOF WINDOW (DRIVERS SIDE) REPLACED.'.

**08.10.1993** Service defect: 'UN - NO FAULT FOUND - PARK BRAKE WARNING LIGHT COMMING ON WHEN THROTTLE OPENED. UNABLE TO FAUT AT MPC. NO SIGN OF WHEELS DRAGGING.'.

**21.10.1993** Service defect: 'A - ALTERNATOR - ALTERNATOR CLEANED & ALL BRUSHES REPLACED.'.

**21.10.1993** Service defect: 'A - BATTERY MAINTENANCE - BATTERY ROLLER REPAIRS COMPLETED. BATTERIES REINSTALLED.'.
**21.10.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - 100M COUNTER LIGHT FITTED.'.
**21.10.1993** Service defect: 'A - GENERAL - DRIVERS SEAT REPLACED.'.
**21.10.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - BRUSH HOLDER NO 3 9 O'CLOCK CHANGED.'.
**21.10.1993** Service defect: 'A - RAD FAN TO MONITOR.21/10.'.
**10.11.1993** Service defect: 'SW - BOGIE - R1 AND R4 AXLE SHOCKER BRACKETS WELDED, A/C CRACKED.'.
**10.11.1993** Service defect: 'SW - EXHAUST - L4,5 & 6 EXHAUST MANIFOLD WELDED, A/C CRACKED.'.
**14.12.1993** Service defect: 'SW - BOGIE - BOGIES ROTATED. DIRECTION TESTED OK.'.
**14.12.1993** Service defect: 'SW - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.
**13.01.1994** Service defect: 'B - BOGIE - L6 AXLE BOX RE-WELDED.'.
**13.01.1994** Service defect: 'B - ENGINE - 18 AIR BOX SEALS REPLACED, A/C LEAKING. MORE TO REPLACE NEXT SERVICE , A/C NIL STOCK.'.
**13.01.1994** Service defect: 'B - OTHER BODY REPAIRS - 'B'END COW CATCHER REPAIRED.'.
**13.01.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED.'.
**13.01.1994** Service defect: 'B - RADIATOR FAN TO MONITOR FOR OVER HEATING.13/1/94'.
**31.01.1994** Service defect: 'UN - AIR CONDITIONING - AIR CON TESTED OK, RESET THERMOSTAT TO 20DEGS.'.
**31.01.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - CA10 CANNON PLUG 'HARD WIRED', A/C BURNT OUT.'.
**31.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DATA LOGGER SWAPPED WITH EL 62.'.
**31.03.1994** Service defect: 'A - CAM SHAFT - L4 CAMSECTION AND ROLLER REPLACED, A/C U/S.'.
**31.03.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L3 AND L6 SANDER NOZZLES REPLACED.'.
**31.03.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 30 CN AIR VALVE REPLACED.'.
**31.03.1994** Service defect: 'A - TRACTION MOTOR - NO 5 T/M TOP BRUSH HOLDER REPLACED, BELLOWS REPLACED. XFC CONTACT TIPS REPLACED, A/C BURNT.'.
**31.03.1994** Service defect: 'A - AIR FRIDGE TO REPAIR. DATA LOGGER MISSING.'.
**31.03.1994** Service defect: 'A - MB AND REV EP VALVES TO MONITOR, A/C LEAKING. 31/1'.
**29.04.1994** Service defect: 'UN - NO FAULT FOUND - BRAKES TESTED, CHECKED OK. COMPRESSOR GOVERNOR CHECKED OK. PARK BRAKE CHECKED OK. UNABLE TO FAULT LOCO.'.
**10.05.1994** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - CANON PLUG REPLACED ON CAIO CABINET.'.
**27.05.1994** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK ON TOP RADIATOR BOOT REPAIRED.'.
**27.05.1994** Service defect: 'TS - NO FAULT FOUND - CONTROL CCT BREAKER TRIPPING ABOVE NOTCH 4 - TRAINLINE CHECKOK WITH ANOTHER EL. GOVERNOR SOLENOIDS OK. COMP PRESSURE'.
**29.06.1994** Service defect: 'F - BOGIE - BOLT REPLACED SHOCKER BRACKET R3 AXLE.'.
**29.06.1994** Service defect: 'F - ELECTRICAL MISCELLANEOUS - BCP TRANSDUCER REPLACED, A/C INTERMITTENT FAULT SHOWING UP ON DATA LOGGER GRAPH.'.
**29.06.1994** Service defect: 'F - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO INSPECTION COVER GASKET REPLACED.'.
**29.06.1994** Service defect: 'F - FUEL SYSTEM PUMP - R1 FUEL PUMP CHANGED, A/C STICKING.'.
**29.06.1994** Service defect: 'F - GENERAL - AIR FRIDGE REPAIRED.'.
**29.06.1994** Service defect: 'F - MECHANICAL EQUIPMENT BRAKE VALVE - DRIVERS BRAKE VALVE + 2 M.R. SAFETY VALVES CHANGED.'.
**29.06.1994** Service defect: 'F - MECHANICAL MAINTENANCE - SOUND WARNING - INLINE STRAINER FOR 'B'END LOW NOTE REPLACED.'.
**29.06.1994** Service defect: 'F - RADIATOR/PRESSURISING FAN - RADIATOR FAN CHANGED.'.
**29.06.1994** Service defect: 'F - TRACTION MOTOR - NO 3 T/MOTOR BELLOW CHANGED, A/C SPLIT.'.

**EL 54**

Details: locomotive 'EL 54 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 25.10.1990
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 11.04.1997 | | |
| Last Lift: | 01.08.1994 | | |
| SW Service Mileage: | 1523713 KM | SW Service Date: | 28.10.1996 |
| A Service Mileage: | 1502813 KM | A Service Date: | 24.09.1996 |
| B Service Mileage: | 1566850 KM | B Service Date: | 02.01.1997 |
| C Service Mileage: | 1103556 KM | C Service Date: | 06.04.1995 |
| D Service Mileage: | 1339136 KM | D Service Date: | 15.03.1996 |
| F Service Mileage: | 954254 KM | A Service Date: | 01.08.1994 |
| WT Service Mileage: | 201035 KM | WT Service Date: | 29.08.1991 |
| US Service Mileage: | 1606384 KM | A Service Date: | 11.04.1997 |

**22.11.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVE ON BRAKE MODULE REPAIRED.'.
**22.11.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - SOUND WARNING - HORN REPLACED.'.
**21.01.1991** Service defect: 'UN - OTHER BODY REPAIRS - COMPRESSOR MOUNTS WELDED.'.

**13.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT BRAKE VALVE REPAIRED'.
**13.02.1991** Service defect: 'UN - ARM REST TO REPAIR RIGHT HAND SIDE'.
**19.02.1991** Service defect: 'TS - MECHANICAL EQUIPMENT BRAKE VALVE - C2W RELAY VALVE REPAIRED.TESTED OK.'.
**28.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - ALL BRAKE VALVES OVERHAULED.'.
**28.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN & MAIN RES PIPES FLUSHED OUT, 2 EXTRA STRAINERS FITTEDCHECKED OK.'.
**05.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO BRK/PIPE OR EQUALISING PRESSURE - P2A REPAIRED/REPLACED. * SHAFT BRUISED CAUSING FAULTY OPERATION *'.
**28.03.1991** Service defect: 'SW - BOGIE - BOGIE ROTATION'.
**28.03.1991** Service defect: 'SW - LARGE TRUMPET NEEDED.'.
**05.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - UNABLE TO REPAIR RETURNED TO M.P.C.'.
**05.04.1991** Service defect: 'UN - RETURN TO M.P.C. A/C SPEEDO FAULTY. (5/4)'.
**10.04.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRS EFFECTED.'.
**15.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - CRACKED STEP MOUNT - O/SIDE TOP BRACKET RE-WELDED.'.
**03.05.1991** Service defect: 'TS - ENGINE - MODIFICATIONS - GONINIAN MODS COMPLETED.'.
**06.05.1991** Service defect: 'TW - CAB LIGHT REQUIRES INVERTER.'.
**24.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMP DRIVE MOTOR TERMINAL BOX COVER SECURED.'.
**24.05.1991** Service defect: 'UN - GENERAL - RADIATOR COVER SECURED.'.
**24.05.1991** Service defect: 'UN - O/S LIGHT INVERTER U/S.'.
**05.06.1991** Service defect: 'B - BOGIE - R6 SHOCKER BRACKET REPAIRED.'.
**05.06.1991** Service defect: 'B - COOLING SYSTEM - RHS INTERCOOLER REPLACED-CHECKED OK.'.
**05.06.1991** Service defect: 'B - FUEL SYSTEM PUMP - L3 FUEL PUMP SEAL REPLACED.'.
**05.06.1991** Service defect: 'B - OTHER BODY REPAIRS - MARKER (CLASS) LIGHTS SEALED OBS/SIDE,A/C LEAKING.'.
**17.06.1991** Service defect: 'UN - GENERAL - D/SIDE FLORO INVERTER REPLACED,OBS/SIDE WINDSCREEN WASHER VALVE REPLACED.'.
**17.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE 'A'END D/SIDE REPLACED.'.
**17.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - BOLTS REPLACED IN COW CATCHER.DRIVERS SIDE STEP WELDED,OBS SIDE STEP WELDED.'.
**17.06.1991** Service defect: 'UN - TRACTION MOTOR - BRUSHHOLDERS ADJUSTED TO 1.7MM FROM COMM.'.
**26.06.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - BRUSH HOLDER REPLACED IN NO 1 T/MOTOR.'.
**20.08.1991** Service defect: 'UN - BOGIE - R1 SHOCKER REPAIRED,R6 SHOCKER BRACKET REPLACED,A/C BOLT BROKEN.'.
**20.08.1991** Service defect: 'UN - FUEL SYSTEM PUMP - L2,L3 FUEL PUMPS CLEANED & REPLACED,CHECKED OK,A/C LEAKING.'.
**20.08.1991** Service defect: 'UN - GENERAL - D/SIDE SEAT REPLACED.WINDSCREENS WASHER HOSES REPLACED.'.
**20.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE ROOM DOORS REPAIRED.STEP BRACKETS WELDED.RIVETS REPLACED ON BODY PANELS,A/C MISSING.'.
**20.08.1991** Service defect: 'UN - COAT HOOK TO REPLACE,LATCH ON COMPUTER DOOR TO'.
**20.08.1991** Service defect: 'UN - REPLACE.20/8.'.
**25.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - MESH ON RIGHT SIDE COMPRESSOR END REPLACED.'.
**11.11.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 1 T/MOTOR LOOSE PIGTAILS CAUSING GR'S,REPAIRED.'.
**15.11.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - 20 T/MOTOR BRUSHES CHANGED 'A'BOGIE,A/C SHORT + 2 T/M BRUSHES ON NO 5 T/M.'.
**12.12.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - 48 D2 ON COMPUTER - ADJUSTED POSITION INDICATOR SWITCH ON P3(P3 FAULT) - CONTACTOR.'.
**13.12.1991** Service defect: 'TS - CONTACTOR INTERLOCKS - P3 POSITION SENSOR CHANGED,CHECKED OK, SELF TEST PERFORMED.'.
**23.12.1991** Service defect: 'UN - BLOCKED FILTERS - AIR FRIDGE FILTERS REPLACED. A/C BLOCKED.'.
**23.12.1991** Service defect: 'UN - OTHER BODY REPAIRS - SIDE PANEL REPLACED WITH BLANKING PLATE.'.
**23.12.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO.1 T/M BRUSHES REPLACED.'.
**11.02.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - DATA - LOGGER CHANGED,A/C WATER LOGGED.'.
**11.02.1992** Service defect: 'UN - GENERAL - SIDE WINDOW CHANGED.FRONT WINDSCREENS SEALED.TOILET LOCK REPAIRED.'.
**25.02.1992** Service defect: 'A - - NO 6 T/MOTOR SENDER CABLE RUBBING THROUGH ON NEARBY CONDUIT.ADDITIONAL RUBBER PLACED AROUND CONDUIT.OK.'.
**25.02.1992** Service defect: 'A - MECHANICAL EQUIPMENT - SPREADER BARS INSTALLED.'.
**23.06.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - SPRING AND TIPS ADJUSTED ON XFC CONTACTOR. A/C 4476 FAULT. NO AUX.POWER.'.
**06.07.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - XFT CONTACT TIPS &SHUNT CHANGED A/C OVER HEATED.AUX.ALT. WOULD NOT START.REPAIRED OK.'.
**06.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DATA LOGGER REPLACED.A/C SPEEDO FLUCTUATING BADLY.'.
**15.07.1992** Service defect: 'SW - BOGIE - BOGIES ROTATED.'.
**15.07.1992** Service defect: 'SW - NO FAULT FOUND - SPEEDO CHECKED OK ON TRIAL RUN.DID NOT FLUCTUATE.'.

**11.08.1992** Service defect: 'A - COOLING SYSTEM - COOLANT CHANGED.'.
**11.08.1992** Service defect: 'A - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW REPLACED A/C CRACKED. D/SIDE DOOR PANEL RE-RIVETED BACK ON SECURELY.'.
**18.08.1992** Service defect: 'UN - BOGIE - L1 SHOCKER BOLTS REPLACED, BRACKET REPLACED.'.
**30.10.1992** Service defect: 'D - GENERAL - WIPER BLADES REPLACED. OBS/SIDE WINDSCREEN NOZZLE REPLACED. DRIVERS SEAT REPLACED.'.
**30.10.1992** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER REPLACED. BRAKE RACK REPLACED.'.
**30.10.1992** Service defect: 'D - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED. BRUSH HOLDER IN NO 2 T/M TOP POSITION REPLACED, A/C BLOWN.'.
**20.01.1993** Service defect: 'A - FUEL SYSTEM - FUEL FLOAT CUT OUT REMOVED AND CHECKED FOR OPERATION AND ADJUSTED.CHECKED OK.'.
**20.01.1993** Service defect: 'A - NO FAULT FOUND - NO NOTICABLE SIGNS OF LEAKAGE FROM DESK LIGHT HOLES.'.
**20.01.1993** Service defect: 'A - TRACTION MOTOR - BOLT REPLACED IN NO3 T/MOTOR.'.
**23.02.1993** Service defect: 'UN - BOGIE - R1 SHOCKER MOUNTING BRACKET REPLACED A/C BROKEN IN TWO.'.
**23.02.1993** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS SIDE WINDSCREEN & SLIDING WINDOW REPLACED A/C BROKEN ENROUTE.'.
**23.02.1993** Service defect: 'UN - AIR CONDITIONING TO BE CHECKED NEXT SERVICE.'.
**31.03.1993** Service defect: 'B - AIR CONDITIONING - AIR CON MODS COMPLETED.'.
**31.03.1993** Service defect: 'B - COOLING SYSTEM RADIATOR - RADIATOR MODS COMPLETED.'.
**31.03.1993** Service defect: 'B - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED.'.
**31.03.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - NO 2 T/MOTOR TOP BRUSH HOLDER REPLACED, A/C SPRING U/S.'.
**15.06.1993** Service defect: 'UN - LUBRICATING SYSTEM - MICHIANA COVER REPAIRED,A/C OIL LEAK.'.
**15.06.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FAN PANEL REPLACED,TESTED OKAY.'.
**24.06.1993** Service defect: 'A - BOGIE - BOLTS REPLACED ON R3 & R4 SHOAK ABSORBER BRACKET,A/C SHEAREDSPREADER BAR 'B'END TIGHTENED.'.
**24.06.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R4 & R6 SAND BRACKETS TIGHTENED.'.
**24.06.1993** Service defect: 'A - TRACTION MOTOR - DUST SEAL REPLACED ON NO 1 T/M,A/C MISSING.'.
**07.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RECON. DATA LOGGER FITTED EX STORE. OLD DATA LOGGER PLACED IN TONY WIILS OFFICE.'.
**07.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW LEAKS REPAIRED.'.
**16.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NO.5 FF CABLE LUGS REPLACED A/C BURNT.'.
**17.09.1993** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - NO'S 2 & 3 WHEELSETS REPLACED.'.
**17.09.1993** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - 'B'END KNUCKLE CHECKED OK.'.
**17.09.1993** Service defect: 'C - VIGILANCE - VIG WARNING CHECKED OK, A/C HARD TO HEAR.'.
**14.10.1993** Service defect: 'UN - BOGIE - L1 AND L3 SHOCK ABSORBERS AND BRACKETS REPLACED A/C MISSING.'.
**14.10.1993** Service defect: 'UN - GENERAL - PILOT HEIGHT ADJUSTED. TOILET DOOR LATCH REPLACED.'.
**14.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER REPLACED.'.
**14.10.1993** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SLIDING WINDOW REPLACED.'.
**14.10.1993** Service defect: 'UN - VIGILANCE - DRIVERS VIGILANCE BUTTON REPLACED A/C BROKEN.'.
**21.10.1993** Service defect: 'UN - RAD FAN TO MONITOR, A/C CRACKS.21/10..'.
**17.12.1993** Service defect: 'SW - BOGIE - NEW BOGIES FITTED.'.
**29.12.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - SLIGHT FLASH NO.6 T/M. REPLACED 6 BRUSHES. REPLACED 2 BRUSHES IN NO. 2 T/M. A/C FRAYED PIGTAILS.'.
**17.01.1994** Service defect: 'TS - TRACTION MOTOR LOOSE PINION - NO.5 T/M CHANGED, A/C SLIPPED PINION. T/M IN. 8911027. T/M OUT. 8911037.'.
**24.02.1994** Service defect: 'B - ELECTRICAL MISC. GROUND RELAY - NO 4 T/M - GR'S, HAMMER HANDLE BROKEN OFF, HOLDER CHECKED OK'.
**24.02.1994** Service defect: 'B - ENGINE - INTAKE MANIFOLD 'O'RINGS CHANGED, A/C SOME LEAKING.'.
**24.02.1994** Service defect: 'B - GENERAL - FASTENERS UNDER D/S DESK ON COVER REPLACED.'.
**24.02.1994** Service defect: 'B - LUBRICATING SYSTEM - OIL CHANGED.'.
**24.02.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND HOSE REPLACED ON L1.'.
**14.05.1994** Service defect: 'A - CONTACTOR MISCELLANEOUS - REPLACED CONTACT TIPS, SPRING AND SHUNT ON XFC.'.
**14.05.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - OBS/SIDE FOG LIGHT - GLOBE REPLACED. OPITICAL SENSOR VISUALLY CHECKED OK.'.
**14.05.1994** Service defect: 'A - FUEL SYSTEM - FUEL LEAK REPAIRED.'.
**14.05.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED.'.
**24.05.1994** Service defect: 'SW - BOGIE - LOCO LIFTED AND BOGIES ROTATED. OBS/SIDE LONG LATERAL SHOCK ABSORBER CHANGED.'.
**24.05.1994** Service defect: 'SW - TRACTION MOTOR - NO 4 AND 6 T/M BELLOWS CHANGED.'.
**21.06.1994** Service defect: 'UN - ENGINE - RADIATOR RUBBER BOOT U/S - NO SPARES - TO MPC FOR REPAIR'.
**22.06.1994** Service defect: 'TS - RADIATOR/PRESSURISING FAN - FAN REPLACED - SERIAL NO IN- EE93120139. LOCO LOAD TESTED OK'.

**EL 55**

Details: locomotive 'EL 55 W' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 10.12.1990
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 21.04.1997 | | |
| Last Lift: | 29.09.1994 | | |
| SW Service Mileage: | 1166681 KM | SW Service Date: | 24.10.1995 |
| A Service Mileage: | 1331247 KM | A Service Date: | 23.05.1996 |
| B Service Mileage: | 1238488 KM | B Service Date: | 12.02.1996 |
| C Service Mileage: | 1114553 KM | C Service Date: | 25.08.1995 |
| D Service Mileage: | 1419949 KM | D Service Date: | 26.08.1996 |
| F Service Mileage: | 862535 KM | A Service Date: | 29.09.1994 |
| WT Service Mileage: | 580469 KM | WT Service Date: | 11.03.1993 |
| US Service Mileage: | 1518133 KM | A Service Date: | 21.04.1997 |

**12.12.1990** Service defect: 'UN - VIGILANCE - TEMPORARY REPAIRS MADE TO VIG CONTROL.'.
**13.12.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - TEMP PROBE REPLACED.'.
**04.01.1991** Service defect: 'SW - GENERAL - FIRST MONTHLY SERVICE COMPLETED'.
**14.01.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR SHUTTER SPOOL VALVE REPLACED'.
**05.03.1991** Service defect: 'TS - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED, RADS REPLACED, DIRECTION TESTED OK.'.
**07.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - D/SIDE SPEEDO REPLACED,A/C NOT WORKING.'.
**07.03.1991** Service defect: 'UN - O/SIDE SPEEDO NOT REPLACED,A/C NIL STOCK J.NEVILLE'.
**07.03.1991** Service defect: 'UN - ADVISED.'.
**06.05.1991** Service defect: 'TW - HORN BRACKET TO WELD.NO 3 SANDING NOZZLE @ BRACKET'.
**06.05.1991** Service defect: 'TW - REQUIRED.'.
**12.05.1991** Service defect: 'SW - OTHER BODY REPAIRS - MODIFICATION - GONINAN RETRO/FIT PROGRAMME COMPLETED.'.
**02.07.1991** Service defect: 'B - VIGILANCE - VIG CONTROL BUTTON REPAIRED.'.
**02.07.1991** Service defect: 'B - 3 SAND NOZZLES TO BE REPLACED,NIL STOCK MPC.2/7.'.
**27.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDING ISOLATING COCK WAS CUT OUT ON 'B' END BOGIE,CHECKED NOW WORKING OK, A/C NO SAND.'.
**09.09.1991** Service defect: 'TS - AIR CONDITIONING - NEW ELEMENTS FITTED BY SIGMA TO A/C UNITS.'.
**09.09.1991** Service defect: 'TS - CONTACTOR EP VALVES - RAD SHUTTER MAGNET VALVE ISOLATION COCK CUT BACK IN,A/C CUT OUT.'.
**09.09.1991** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR BOLTS RETORQUED.'.
**09.09.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END BRAKE PIPE REPAIRED.'.
**09.09.1991** Service defect: 'TS - NO FAULT FOUND - HOT ENGINE FAULT NOT EVIDENT.'.
**17.09.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK - FLANGE ABOVE RADIATORS TIGHTENED.'.
**02.10.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL BRUSHES ON ALL T/M,S REPLACED. A/C TOO SHORT.'.
**02.10.1991** Service defect: 'A - DOOR VENT TO REPLACE.TOILET DOOR LATCH TO REPAIR.'.
**17.10.1991** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.MOVEMENT TESTED OK.'.
**17.10.1991** Service defect: 'SW - OTHER BODY REPAIRS - NEW STEPS FITTED,A/C CRACKED.'.
**02.01.1992** Service defect: 'C - COOLING SYSTEM - 15 LITRES OF COOLANT ADDED.'.
**02.01.1992** Service defect: 'C - ELECTRICAL MISCELLANEOUS - MANUAL POWER CONTROL POT REPLACED.'.
**02.01.1992** Service defect: 'C - LUBRICATING SYSTEM - OIL CHANGED.'.
**02.01.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 4 SANDING NOZZLES REPLACED.'.
**02.01.1992** Service defect: 'C - TRACTION MOTOR - 12 T/M NOSE SUSPENSION PINS REPLACED.'.
**02.01.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED.'.
**02.01.1992** Service defect: 'C - FLAT SPOT ON LEADING AXLE TO MONITOR.'.
**24.03.1992** Service defect: 'A - OTHER BODY REPAIRS - CAB DOOR LATCH ADJUSTED FOR EASIER CLOSING.'.
**24.03.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 24 T/M BRUSHES CHANGED.A/C CONDEMNING LIMIT.'.
**24.03.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CRANKING FAULT RECTIFIED-COMPUTER RESET FUNCTION.'.
**21.05.1992** Service defect: 'UN - VIGILANCE - SOLENOID IN VIG UNIT CLEANED,A/C LEAKING.'.
**18.06.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - NO1 TRACTION MOTOR SLIGHT MARKS ON COMMUTATOR NO4 TRACTION MOTOR SLIGHT STALL MARKS ON COMMUTATOR,ALL'.
**16.08.1992** Service defect: 'CA - ELECTRICAL MISC. GROUND RELAY - TOP 4 T/M BRUSHES REPLACED ON NO.2 T/M. PIG TAILS RUBBING ON RISER.'.
**02.09.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - XFC CONTACT TIPS AND SHUNT REPLACED A/C WELDED IN.'.
**02.09.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CGS SET. CUT IN 800KPA CUTS OUT 875 KPA.'.
**08.09.1992** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - SAFETY VALVES REPLACED A/C BLOWING.'.
**08.09.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R6 SANDING BRACKET REPLACED. A/C MISSING. ALL SAND PIPES TIGHTENED.'.
**08.09.1992** Service defect: 'A - OTHER BODY REPAIRS - DRIVERS SIDE STEPS REPLACED. OBSERVERS SIDE SLIDING WINDOW REPLACED A/C CRACKED.'.

**08.09.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED ON NO'S 1,2 AND 3 T/M'S. A/C SHORT.'.
**19.10.1992** Service defect: 'UN - AIR CONDITIONING - AIR/CON CHECKED, WORKING OK.'.
**10.12.1992** Service defect: 'D - BOGIE - BOGIE ROTATION COMPLETED. LOCO MOVEMENT TESTED OK POWER & DYN.'.
**10.12.1992** Service defect: 'D - FUEL SYSTEM - FUEL FLOAT REPLACED.'.
**10.12.1992** Service defect: 'D - GENERAL - MIRROR REPAIRED.'.
**10.12.1992** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE LEAKS REPAIRED.'.
**02.03.1993** Service defect: 'A - BOGIE - L3 SHOCKER BOLT REPLACED, R6 SHOCKER BRACKET REPAIRED.'.
**08.03.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 3 & 5 W/SET SWAP COMPLETED.'.
**08.03.1993** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATOR MODS COMPLETED.'.
**08.03.1993** Service defect: 'SW - TRACTION MOTOR - NO 3 & 5 T/M SWAP COMPLETED.'.
**08.03.1993** Service defect: 'SW - FRIDGE REQ'S NEW VORTEX,NIL STOCK.8/3.'.
**12.03.1993** Service defect: 'SW - AIR CONDITIONING - VORTEX GENERATOR REPLACED'.
**12.03.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR LOW OIL PRESSURE SWITCH RECONNECTED A/C MICRO SWITCH REPLACED AND TESTED OKAY.'.
**23.03.1993** Service defect: 'SW - COOLING SYSTEM - BRACKET FOR WATER PIPE ABOVE TURBO FITTED, A/C BROKEN.'.
**23.03.1993** Service defect: 'SW - GENERAL - O/SIDE WINDOW REPLACED, A/C BROKEN.'.
**23.03.1993** Service defect: 'SW - MECHANICAL EQUIPMENT - HATCH BRACKETS & BOLTS ABOVE TURBO FITTED, A/C MISSING & BROKEN.'.
**07.04.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 5 WHEEL SET REPLACED,A/C THIN FLANGE.'.
**07.04.1993** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - NO 1 T/M SPEED SENSOR CABLE RECONNECTED.'.
**15.04.1993** Service defect: 'UN - ENGINE - ENGINE OIL & WATER CHECKED OK.'.
**15.04.1993** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR REPLACED,FUEL RACKS ADJUSTED. LOAD TESTED OK.'.
**15.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - NEW D/SIDE MIRROR FITTED.'.
**25.05.1993** Service defect: 'B - GENERAL - OBS/SIDE SEAT CHANGED.'.
**25.05.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - NO 2 BOTTOM BRUSH HOLDER REPLACED,A/C PIGTAIL BOLT CROSSED THREAD & HEAD BROKE OFF.'.
**13.07.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED. DIRECTION TESTED OK.'.
**13.07.1993** Service defect: 'UN - GENERAL - ARM REST FITTED EX EL 52.'.
**13.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED.'.
**11.08.1993** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - COMPRESSOR SWITCH WIRING CHECKED FOR DAMAGE, FOUND TO BE OKAY.'.
**11.08.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - DUMMY COULPINGS REPLACED ON NO 3 & 4 CONTROL PIPES.'.
**16.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DATA LOGGER FAULT - D/LOGGER SWITCHED OFF & BACK ON, CHECKEDOK. SPEEDO WORKING OK.'.
**16.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - THROTTLE CONTROLLER SPRING REPLACED.'.
**16.09.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL T/MOTORS BRUSHES REPLACED.'.
**24.09.1993** Service defect: 'TS - COOLING SYSTEM - WATER LINE MOD COMPLETED.'.
**24.09.1993** Service defect: 'TS - COOLING SYSTEM RADIATOR - BRACKET HOLDING WATER PIPE TO RADIATOR REWELDED, A/C BROKEN.'.
**24.09.1993** Service defect: 'TS - COOLING SYSTEM WATER PUMP - WATER PUMP REPLACED.'.
**24.09.1993** Service defect: 'TS - SPEEDO NOT WORKING - NO LOGGER AVAILABLE.24/9.'.
**06.11.1993** Service defect: 'C - ALTERNATOR - BOLT FOR MAIN ALT PIGTAIL REPLACED, A.C MISSING.'.
**06.11.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - XFC CONTACTOR TIPS REPLACED, ALSO SPRING FOR CONTACTOR REPLACED.'.
**06.11.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP REPS - H/PRESS VALVES STRIPPED & CHECKED OK.'.
**06.11.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED AND TESTED OK.'.
**20.12.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - T/M'S INSPECTED. 8 BRUSHES IN NO.3 T/M CHANGED. 2 BRUSHES CHANGED IN NO.5 MOTOR.'.
**20.01.1994** Service defect: 'A - CAM SHAFT - L4 CAMSHAFT REPLACED, A/C BAD FLAT ON LOBE AND ROLLER.'.
**20.01.1994** Service defect: 'A - GENERAL - LOCO TO TRAIL ONLY,A/C NO OPTICAL SENSOR OR FRIDGE OR DATA LOGGER.'.
**20.01.1994** Service defect: 'A - OTHER BODY REPAIRS - D/SIDE STEP REPAIRED, A/C CRACKED.'.
**20.01.1994** Service defect: 'UN - GENERAL - AIR FRIDGE REMOVED FOR REPAIRS. FRIDGE TAKEN OUT THRU ROOF.AIR COND. REPLACED. TO TRAIL ONLY.'.
**20.01.1994** Service defect: 'UN - OTHER BODY REPAIRS - BATTERY SLIDES REPLACED, A/C OLD ONES SIEZED.'.
**14.02.1994** Service defect: 'TS - CONTACTOR MISCELLANEOUS - NO POWER. AFC CONTACTOR REPAIRED. CONTACT HOLDING ARM, SHUNT, SPRING AND CONTACT TIPS REPLACED.'.
**14.02.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - AFR PANEL REPLACED, A/C RESITANCE TOO LOW ACROSS PANEL.'.
**12.04.1994** Service defect: 'B - COOLING SYSTEM RADIATOR - RADIATOR COUPLING TIGHTENED, A/C LOOSE,CAUSING LEAK.'.
**12.04.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - DATA LOGGER CHANGED, OUT-LO15/MO.11 - IN- LO10/M.130. OPTICAL SENSOR FOR SPEEDO REPLACED, A/C MISSING. CHECKED OK.'.
**15.04.1994** Service defect: 'TS - BOGIE - L3 SHOCKER

BRACKET BOLT REPLACED.'.

**15.04.1994** Service defect: 'TS - ENGINE - R6 POWER ASSEMBLY REPLACED, A/C U/S.'.

**15.04.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - COCK HANDLE REPLACED ON M.R. COCK D/SIDE REAR.'.

**21.04.1994** Service defect: 'UN - GENERAL - AIR FRIDGE REPLACED.'.

**31.05.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELSET TAKEN EX WTM.'.

**EL 56**

Details: locomotive 'EL 56 X' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 27.12.1990
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 15.04.1997 | | |
| SW Service Mileage: | 1531349 KM | SW Service Date: | 15.04.1997 |
| A Service Mileage: | 1505105 KM | A Service Date: | 13.03.1997 |
| B Service Mileage: | 1287482 KM | B Service Date: | 05.05.1996 |
| C Service Mileage: | 1137717 KM | C Service Date: | 31.10.1995 |
| D Service Mileage: | 997757 KM | D Service Date: | 14.10.1994 |
| WT Service Mileage: | 893170 KM | WT Service Date: | 06.05.1994 |
| US Service Mileage: | 1530266 KM | A Service Date: | 11.04.1997 |

**22.01.1991** Service defect: 'SW - GENERAL - FIRST MONTHLY SERVICE COMPLETED.'.

**05.02.1991** Service defect: 'UN - NO FAULT FOUND - DYNAMIC BRAKE SURGING-NO FAULT FOUND.'.

**05.02.1991** Service defect: 'UN - NO FAULT FOUND - INDEPENDANT BRAKE FAULTY-NO FAULT FOUND.'.

**05.02.1991** Service defect: 'UN - NO FAULT FOUND - NO BATTERY CHARGE-NO FAULT FOUND.'.

**21.02.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES NOT RELEASING - CONTROL & INDEPENDANT HOSES REVERSED. ('A'END O/SIDE HOSES INCORRECT)'.

**21.02.1991** Service defect: 'TS - NO FAULT FOUND - NO POWER - LOCO CHECKED IN DEPOT UNABLE TO FAULT. - (PROBABLE CAUSE LISTED BELOW)'.

**28.02.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - ALL BRAKE VALVES OVERHAULED.'.

**28.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN & MAIN RES PIPES FLUSHED OUT, 2 EXTRA STRAINERS FITTEDCHECKED OK.'.

**07.03.1991** Service defect: 'TS - OVERHEATING - ENGINE TEMP PROBE REMOVED,A/C FAULTY.REPLACED WITH ONE FROM EL 52.LOAD TESTED OK.'.

**03.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER - O/SIDE NO.6 SANDER SUPPORT TIGHTENED. - (HORN/STAY BOLTS LOOSE)'.

**03.04.1991** Service defect: 'UN - VIGILANCE - NO RESPONSE - VIGILANCE OPERATION CHECKED,NOT FAULTED.(RJH)'.

**16.04.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - 'CAB' MODULE REPLACED BY GONINAN SERVICE REP.'.

**16.04.1991** Service defect: 'UN - GENERAL LOSS OF POWER - POWER LOSS CHECKED OK.'.

**19.04.1991** Service defect: 'UN - MECHANICAL AIR BRAKE REPAIRS - ACCIDENT - TRAIN PIPE REPAIRS COMPLETED,A/C HIT KANGAROO.'.

**23.04.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - FILTER FITTED UNDER 30CW MODULE. COMPRESSOR FLOOR WELDED A/C CRACKS.'.

**01.05.1991** Service defect: 'SW - OTHER BODY REPAIRS - MODIFICATIONS - GONINAN MODS COMPLETED.'.

**06.05.1991** Service defect: 'UN - DRIVER FAULT - H/BRAKE NOT RELEASING - RE-POSITIONED AIR/COCKS,TESTED OK. - WRONG AIR/COCKS TURNED OFF.'.

**10.05.1991** Service defect: 'UN - VIGILANCE - FISHER UNIT U/S - TRAILING UNIT ONLY A/C WAIT FISHER UNIT.'.

**30.05.1991** Service defect: 'TS - RADIATOR/PRESSURISING FAN - WATER TEMP PROBE & AIR TEMP PROBE CHANGED,A/C RAD FAN PROBLEMS.'.

**17.06.1991** Service defect: 'UN - GENERAL - CAB SEALED & TESTED FOR AIR & WATER LEAKS,OK.'.

**17.06.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FAN CHECKED OK IN DEPOT.'.

**26.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RFP WIRES CBLF14 & CBLG13 FOUND OPEN,RELUGGED & CONNECTED. SELF TESTED OK.'.

**26.06.1991** Service defect: 'UN - GENERAL - 223-03 SOFTWARE INSTALLED.'.

**03.07.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - FULL AIRBRAKE TEST OF LOCO CARRIED OUT & TESTED,COULD NOT FAULT AT MPC.'.

**23.07.1991** Service defect: 'B - BOGIE - SPREADER BARS STRAIGHTENED.'.

**23.07.1991** Service defect: 'B - ELECTRICAL MISC. MODULES - 30CW MODULE REPLACED,A/C LEAK FROM EXHAUST WHILE BRAKES APPLIED.'.

**23.07.1991** Service defect: 'B - TRACTION MOTOR - 4 NOSE SUSPENSION PINS FROM T/M REPLACED.'.

**23.07.1991** Service defect: 'B - 2 SANDING NOZZLES TO BE REPLACED,A/C NIL STOCK MPC'.

**23.07.1991** Service defect: 'B - 23/7.'.

**03.09.1991** Service defect: 'UN - BOGIE - R3 AND R4 BRAKE CYLINDERS DAMAGED A/C COLLISION.REPLACED'.

**03.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - O/SIDE SIDE CAB WINDOW CRACKED.REPLACED'.

**30.09.1991** Service defect: 'UN - BODY REPAIRS - ACCIDENT - COLLISION REPAIRS FIXED.'.

**03.10.1991** Service defect: 'UN - BOGIE - L4 SHOCKER SUPPORT BOLT REPLACED.'.

**03.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - WINDSCREEN SEALED WITH SILASTIC.'.

**18.02.1992** Service defect: 'UN - GENERAL - CRACKED REAR VISION MIRROR,REPLACED.'.

**18.02.1992** Service defect: 'UN - AIR/CON.TO HAVE PRESSURE SWITCH CHANGED.(NIL'.
**18.02.1992** Service defect: 'UN - SPARES AT SIGMA.)'.
**03.03.1992** Service defect: 'UN - TRACTION MOTOR - NO1 T/MOTOR CABLES SHORTING OUT.REPAIRED.'.
**20.03.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - DATA LOGGER INFORMATION TAKEN.-LOCO OK FOR TRAFFIC.'.
**20.03.1992** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP CHANGED,A/C CIRCUIT BREAKER TRIPPING.'.
**21.04.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - (XFC) EXCITER FIELD CONTACTOR CONTACT TIP REPLACED,A/C TIP BURRED & ARCED.'.
**21.04.1992** Service defect: 'A - GENERAL - TOILET DOOR LATCH FIXED.OBS/SIDE MIRROR TO REPAIR.'.
**02.07.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.3 T/M ALL BRUSHES CHANGED.A/C PIGTAILS FRAYED AND BROKEN.'.
**10.07.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - P1 CONTACTOR TIPS CHANGED.A/C BURNT AND PITTED.'.
**10.07.1992** Service defect: 'B - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.
**16.10.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - NEW RADIATOR FITTED.'.
**23.11.1992** Service defect: 'TS - ENGINE - STARTING FIRES. ENGINE INSPECTION CHECKED OK.FUEL PUMP TIMING OK. ENGINE AIR BOX CHECKED OK. LOCO LOAD TESTED OK'.
**23.11.1992** Service defect: 'TS - EXHAUST - EDUCTOR TUBE CLEANED A/C SLIGHT CARBON BUILD UP.'.
**23.11.1992** Service defect: 'TS - LUBRICATING SYSTEM - OIL LEAK - MICHIANNA BOLT REPAIRED A/C BROKEN.'.
**07.01.1993** Service defect: 'D - BOGIE MAINTENANCE - WHEELS - WHEEL SWAP COMPLETED,(2 & 5).'.
**07.01.1993** Service defect: 'D - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES REPLACED.'.
**12.01.1993** Service defect: 'UN - AIR CONDITIONING - AIR COND.WORKING OK.'.
**25.01.1993** Service defect: 'SW - NOSE SUSPENSION PIN TO REPLACE. HEADLIGHT SWITCH'.
**25.01.1993** Service defect: 'SW - TO REPLACE.25/1/93.'.
**19.03.1993** Service defect: 'A - GENERAL - CAB DOOR LATCH REPAIRED. D/S WINDOW WASHER REPAIRED.'.
**24.03.1993** Service defect: 'UN - ENGINE AIR FILTERS - ALL AIR STRAINERS CLEARED & TESTED OK, A/C FULL OF RUST COMPRESSOR NOT LOADING OR OFF LOADING PROPERLY.'.
**02.04.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET CHANGE COMPLETED,A/C THIN FLANGE.'.
**02.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR MAGNET VALVE REPLACED,A/C NOT SEATING,TESTED OK. 'EXC'PANEL WAS CHANGED ALSO.'.
**16.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMPUTER SUPPLY REPLACED,A/C BAD OUTPUT VOLTAGES (LOW & FLUCATING). ALL TESTED OK. LOAD AMMETER REPLACED,A/C FAILED SELF'.
**16.04.1993** Service defect: 'UN - R/H SIDE FUEL GAUGE TO CHANGE.16/4.'.
**29.05.1993** Service defect: 'TW - BOGIE - HORN STAY BOLTS ON L1, L4 AND R3 REPLACED.'.
**01.06.1993** Service defect: 'B - AIR CONDITIONING - AIR-CON THERMOSTAT SET AT 29 DEGREES.'.
**01.06.1993** Service defect: 'B - BOGIE - HORN STAY BOLTS HAVE BEEN HUCK BOLTED.'.
**01.06.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - AUXILLARY ALTERNATOR FIELD CONTACT TIPS REPLACED A/C BURNT.'.
**01.06.1993** Service defect: 'B - ENGINE - WATER SAMPLE COCK FITTED.'.
**01.06.1993** Service defect: 'B - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.
**01.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - INTERNAL SAND FILLERS BLANKED OFF.'.
**01.06.1993** Service defect: 'B - OTHER BODY REPAIRS - HAND RAIL INFRONT OF LOCO PAINTED BLACK.- OBSERVERS SIDE STEPS REPAIRED.'.
**01.06.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED.'.
**01.06.1993** Service defect: 'B - AIR-CON. COMPRESSOR LEAKING OIL BADLY.2/6/1993.'.
**04.06.1993** Service defect: 'SW - AIR CONDITIONING - AIR CON MODS COMPLETED, AIR CON INSTALLED,DRAINS & DUCTS CONNECTED. THERMOSTAT RESET TO 21DEGS.'.
**09.08.1993** Service defect: 'UN - EXHAUST - MIDDLE EXHAUST JOINT WELDED UP, A/C LEAKING.'.
**09.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END KNUCKLE REPAIRS COMPLETED, KNUCKLE REPLACED.'.
**03.09.1993** Service defect: 'A - COOLING SYSTEM - WATER SIGHT GLASS REPLACED.'.
**03.09.1993** Service defect: 'A - GENERAL - OBS/SIDE W/WASHER REPAIRED.'.
**03.09.1993** Service defect: 'TS - BOGIE - ALL DELRAILMENT REPAIRS COMPLETED. BOGIE SAFETY SLINGS INSTALLED.'.
**03.09.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED OK.'.
**03.09.1993** Service defect: 'TS - COOLING SYSTEM WATER PUMP - WATER PUMP REPLACED.'.
**15.09.1993** Service defect: 'UN - EXHAUST - EXHAUST CRACKS REPAIRED, BROKEN EXHAUST BOLT REPLACED, EXHAUST OK.'.
**15.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - THROTTLE TENSION (RHS) SPRING REPAIRED. TESTED OK.'.
**03.11.1993** Service defect: 'UN - AUXILLARY MACHINES - AUX GEN WOULD NOT FIRE UP ON RESTART. FOLLOWED THROUGH FAULTPROCEDURE 445B FAULT. FAULT RECTIFIED ITSELF.'.
**03.11.1993** Service defect: 'UN - BOGIE - L4 SHOCKER BRACKET BOLT REPLACED, A/C BROKEN.'.
**03.11.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END KNUCLE REPLACED.'.
**03.11.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED EXCEPT ON NO 1 T/M.'.
**23.11.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - CHANGED XFC CONTACT TIPS.'.
**23.11.1993** Service defect: 'C - ENGINE WATER LEAK - RHS WATER LEAK NEAR RADIATOR REPAIRED.'.
**26.11.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 2 & 5 WHEELSETS SWAPPED, LOCO

LOAD TEST OK.'.

**31.12.1993** Service defect: 'TW - TRACTION MOTOR - 6 BRUSHES CHANGED ON NO.1 T/M. 2 CHANGED ON NO.3 T/M.'.

**19.01.1994** Service defect: 'SW - BOGIE - BOGIES ROTATED.'.

**19.01.1994** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO.2 WHEEL SET CHANGED, A/C FLANGES.'.

**10.02.1994** Service defect: 'A - AIR CONDITIONING - AIR CON REPAIRED BY RAC FITTER.'.

**10.02.1994** Service defect: 'A - OTHER BODY REPAIRS - DRIVERS WINDOW REPAIRED.'.

**24.02.1994** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONER UNIT CHANGE OUT COMPLETED. DRAINS CHECK OK.'.

**28.04.1994** Service defect: 'B - BOGIE - L1,L2,L4,L5,R1,R2 AND R6 PEDESTAL LINERS REWELDED, A/C CRACKED.'.

**28.04.1994** Service defect: 'B - GENERAL - OBS/SIDE ENGINE ROOM DOOR REPAIRED.'.

**28.04.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - L1 SAND HOSE REPLACED.'.

**28.04.1994** Service defect: 'B - OTHER BODY REPAIRS - DUMMY COUPLING AND HOSE REPAIRED 'A'END.'.

**02.06.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - EXC COMPUTER CHANGED AMD LOCO LOAD TESTED OK. LOCO TO TRAFFIC.'.

**12.09.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN AIR HOSE IP BRAKE REPAIRED OK'.

**EL 57**

Details: locomotive 'EL 57 R' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 06.03.1991
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 17.04.1997 | | |
| Last Lift: | 11.11.1994 | | |
| SW Service Mileage: | 1606953 KM | SW Service Date: | 17.04.1997 |
| A Service Mileage: | 1568730 KM | A Service Date: | 22.02.1997 |
| B Service Mileage: | 1359459 KM | B Service Date: | 15.05.1996 |
| C Service Mileage: | 1199952 KM | C Service Date: | 26.10.1995 |
| D Service Mileage: | 1518006 KM | D Service Date: | 27.11.1996 |
| F Service Mileage: | 962114 KM | A Service Date: | 11.11.1994 |
| WT Service Mileage: | 452232 KM | WT Service Date: | 05.11.1992 |
| US Service Mileage: | 1565138 KM | A Service Date: | 12.02.1997 |

**06.03.1991** Service defect: 'UN - GENERAL - CAB EQUIPMENT FITTED.'.

**12.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRIPLE VALVE ISOLATING COCK OPENING,RESET,TESTED OK.'.

**12.03.1991** Service defect: 'UN - OVERHEATING - WATER TEMP PROBE CHANGED,A/C FAULTY.'.

**21.03.1991** Service defect: 'TS - ELECTRICAL MISC. MODULES - DATA LOGGER CHANGED OUT,REINITIATLIZED & CHECKED OK. COMPUTERS CHANGED OUT,LOAD TESTED & SELF CHECKS OK.'.

**04.04.1991** Service defect: 'SW - AIR CONDITIONING - AIR COND REPAIRED & OPERATING NORMALLY,A/C NOT OPERATING IN COOL.'.

**16.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE & BRAKING SYSTEM CHECKED OK,BRAKE PIPE LEAK REPAIRED.'.

**22.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - STEPS WELDED.'.

**23.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FILTER FITTED UNDER DASH TO 30CW MODULE.'.

**14.05.1991** Service defect: 'SW - OTHER BODY REPAIRS - MODIFICATION - GONINAN RETRO/FIT PROGRAMME COMPLETED.'.

**31.05.1991** Service defect: 'A - TRACTION MOTOR FLASHOVER - ALL BRUSHES REPLACED ON NO 3 T/M,A/C FLASHOVER. NO 6 T/M FLASHOVER,3 BRUSHES REPLACED,PIGTAILS BROKEN.'.

**19.11.1991** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE STEP REPLACED WITH MODIFIED TYPE.'.

**12.12.1991** Service defect: 'UN - OTHER BODY REPAIRS - OBS/SIDE WINDOW REPLACED,A/C BROKEN.'.

**17.01.1992** Service defect: 'UN - FUEL SYSTEM - FUEL FILLER CHECKED OK.'.

**11.02.1992** Service defect: 'UN - AIR CONDITIONING - EVAPERATIVE DRAIN LINE REPAIRED.(SIGMA).'.

**28.02.1992** Service defect: 'C - GENERAL - RADIATOR INSTALED AND LOCO TESTED.OK.'.

**28.02.1992** Service defect: 'C - RADIATOR/PRESSURISING FAN - RAD.FAN FRAME LEGS WELDED THROUGH TO SUB FRAME.OK.'.

**22.05.1992** Service defect: 'A - T/M'S 1,2,5 & 6 INSPECTED,A/C TMGL ENTERING THRU'.

**22.05.1992** Service defect: 'A - SIDE VENTS,TO MONITOR.22/5.'.

**11.08.1992** Service defect: 'B - BROKEN PIPE - RESIDUE DRAIN SUMP PIPE REPAIRED A/C CRACKED.'.

**11.08.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL CHANGED.'.

**11.08.1992** Service defect: 'B - OTHER BODY REPAIRS - LARGE HORN REPLACED. BOTH BLINDS REPLACED.'.

**11.08.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - COMPLETE BRUSH CHANGE.'.

**04.11.1992** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATOR PANNELLING REPLACED. LOCO LOAD TESTED OK.'.

**05.02.1993** Service defect: 'D - AIR CONDITIONING - AIR CONDITIONER INTAKE DUCTS INSTALLED.'.

**24.04.1993** Service defect: 'A - AIR CONDITIONING - AIR CONDITIONING THERMOSTAT ADJUSTED TO 25 DEG. CELCIUS A/C HEATERS NOT CUTTING IN AT ALL.'.

**24.04.1993** Service defect: 'A - ENGINE - FOUR AIRBOX SEALS REPLACED A/C BLOWING OUT UNDER LOAD TEST.'.

**24.04.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CHECKED OPERATION OF

OKAY IN BOTH DIRECTIONS.'.
**24.04.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - NO.4 COCK HANDLE REPLACED 'B' END.'.
**18.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED.'.
**18.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - FRONT MIDDLE PORTION OF COWCATCHER STRAIGHTENED & BRAKE PIPEREPAIRED & TESTED OK.'.
**20.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS REPLACED.'.
**20.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - COWCATCHER REPAIRED & REPLACED.'.
**07.06.1993** Service defect: 'TS - GENERAL LOSS OF POWER - LOCO TESTED FOR WATER LEAKS, NO FAULT FOUND.'.
**22.06.1993** Service defect: 'SW - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED,CHECKED OK.'.
**22.06.1993** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO WATER LINE MOD COMPLETED.'.
**22.06.1993** Service defect: 'SW - GENERAL - WINDSCREEN WIPER REPAIRED.'.
**22.06.1993** Service defect: 'SW - OTHER BODY REPAIRS - OBS/SIDE FOG LIGHT REPLACED. D.SIDE REAR STEP LIGHT REPAIRED'.
**17.07.1993** Service defect: 'B - BOGIE - TWO BOGIE SAFETY STRAPS REPLACED. ONE SHOCKER COVER REWELDED'.
**17.07.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED.'.
**12.08.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.
**12.08.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - M/R AUTO DRAIN VALVE SEATS REPAIRED, PORT HOLES CLEANED, TESTED OK.'.
**30.09.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - COMPLETE BRUSH CHANGE CARRIED OUT.'.
**30.09.1993** Service defect: 'UN - CRACKS IN THE 2 SHORT EXHAUST SECTIONS IN VALLEY.'.
**30.09.1993** Service defect: 'UN - 30/9.'.
**11.10.1993** Service defect: 'A - COOLING SYSTEM - MAIN COOLING PIPE TO RADIATORS REPAIRED A/C CRACKED.'.
**11.10.1993** Service defect: 'A - EXHAUST - CRACKS IN CENTRE SHORT EXHAUST CONNECTIONS REPAIRED.'.
**11.10.1993** Service defect: 'A - GENERAL - REAR T/M BLOWER DUCT WELDED A/C CRACKED.'.
**11.10.1993** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR INSPECTION COVER GASKET REPLACED A/C LEAKING.'.
**11.10.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES. COCK REPLACED.'.
**11.10.1993** Service defect: 'A - OTHER BODY REPAIRS - TOILET DOOR LOCK REPAIRED. W/WIPER SPLINE REPAIRED.'.
**23.10.1993** Service defect: 'SW - BATTERY MAINTENANCE - BATTERIES CHECKED WITH STAB TESTER, CHECKED OUT OK. LOCO STARTED OK.'.
**23.10.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.
**23.10.1993** Service defect: 'SW - BOTH ROLLERS FOR LHS BATTERY BOX TO BE REPLACED.'.
**23.10.1993** Service defect: 'SW - 23/10.'.
**03.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CONTROLLER FITTED EX EL 58, A/C BROKEN SPRING.'.
**03.11.1993** Service defect: 'UN - GENERAL - TOILET DOOR LATCH REPAIRED.'.
**23.11.1993** Service defect: 'SW - RADIATOR/PRESSURISING FAN - RADIATOR FAN CHANGE - NEW MODIFIED TYPE FITTED. FAN OPERATION CHECKED OK. CONTROLLER THROTTLE SPRING REPLACED.'.
**20.12.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - T/M'S CHECKED. 6 BRUSHES REPLACED ON NO.2. 4 BRUSHES REPLACED ON NO.3. 4 BRUSHES REPLACED ON NO.4.'.
**07.01.1994** Service defect: 'C - ENGINE - 26 AIR BOX SEALS CHANGED, A/C SEALS GONE HARD AND LEAKING.'.
**07.01.1994** Service defect: 'C - OTHER BODY REPAIRS - DRIVERS SEAT REPLACED A/C TORN.'.
**07.01.1994** Service defect: 'C - TRACTION MOTOR BRUSHES - NO.5 T/M TOP BRUSH HOLDER REPLACED, A/C PIVOT PIN MOVED.'.
**07.01.1994** Service defect: 'C - T/M SUPPORT BEARINGS TO GREASE NEXT SERVICE. AIR'.
**07.01.1994** Service defect: 'C - DRYER TO CHANGE NEXT SERVICE.7/1/94.'.
**09.03.1994** Service defect: 'TS - BOGIE - BRAKE STRAP SPREADER REPLACED ON 'A'END BOGIE.'.
**09.03.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOCO MEGGERED 500KOHMS. LOW READING ISOLATED TO INSULATOR INBRAKE TANK. INSULTAOR REPAIRED AND TANK RE-ASSEMBLED. LOCO'.
**09.03.1994** Service defect: 'TS - TRACTION MOTOR - NO 1 T/MOTOR RECONNECTED, ALL JUMPERS REMOVED, LOCO LOAD LOAD TESTED OK.'.
**15.03.1994** Service defect: 'TS - INSULATION WORN - NO.1 T/M FLASHING OVER. FOUND NO.1 T/M CABLES ARCING THRU CLEAT. CABLES RE-INSULATED AND CLEANED UP. CHECKED OK.'.
**15.03.1994** Service defect: 'TS - OTHER BODY REPAIRS - BODY WASHED.'.
**23.03.1994** Service defect: 'A - ALTERNATOR - 4ALTERNATOR SLIP RING BRUSHES CHANGED, A/C SHORT.'.
**23.03.1994** Service defect: 'A - BOGIE - TRACTION MOTOR SUPPORT BEARINGS GREASED, A/C NOT DONE ON PREVIOUS SERVICE, A/C NO GREASE AVAILABLE AT TIME.'.
**23.03.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DYER CHANGED, A/C NONE AVAILABLE LAST SERVICE.'.
**07.04.1994** Service defect: 'SW - OTHER BODY REPAIRS - DRIVERS SIDE FRONT WINDOW REPLACED.'.
**07.04.1994** Service defect: 'SW - DATA LOGGER TO FIT.7/4.'.
**02.06.1994** Service defect: 'B - COOLING SYSTEM - RUBBER BOOT ON RADIATOR TIGHTENED.'.
**02.06.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - MANUAL POWER CHECK - RHEOSTAT REPLACED.'.
**02.06.1994** Service defect: 'B - ENGINE - AIR DRYER CHANGED.'.
**02.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - D/S REAR SANDER REPAIRED.'.

**02.06.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - B/P LEAK REPAIRED.'.
**02.06.1994** Service defect: 'B - OIL LEAK FROM'.
**30.06.1994** Service defect: 'UN - BOGIE - SHOCKER REPAIRED.'.
**30.06.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - SPRING REPLACED IN THROTTLE CONTROLLER.'.

**EL 58**

Details: locomotive 'EL 58 D' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.04.1991
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 01.12.1994 | | |
| SW Service Mileage: | 1559863 KM | SW Service Date: | 08.04.1997 |
| A Service Mileage: | 1512914 KM | A Service Date: | 07.02.1997 |
| B Service Mileage: | 1288886 KM | B Service Date: | 19.04.1996 |
| C Service Mileage: | 1153699 KM | C Service Date: | 26.10.1995 |
| D Service Mileage: | 1445519 KM | D Service Date: | 25.10.1996 |
| F Service Mileage: | 909333 KM | A Service Date: | 01.12.1994 |
| WT Service Mileage: | 669401 KM | WT Service Date: | 15.10.1993 |
| US Service Mileage: | 1567556 KM | A Service Date: | 22.02.1997 |

**04.04.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CIRCUIT BREAKER REPLACED.'.
**17.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHECKED NO FAULT FOUND,A/C REPORTED ERRATIC.'.
**30.04.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRK/PIPE FLUSH/OUT - COMPLETED.'.
**30.04.1991** Service defect: 'SW - OTHER BODY REPAIRS - OTHER REPAIRS - COMPLETED BY GONINIAN.'.
**06.05.1991** Service defect: 'TS - COOLING SYSTEM - ONEWAY VALVE IN FILLER PIPE FOUND BLOCKED,UNBLOCKED,A/C ENGINE SHUT DOWN LOST COOLING WATER.'.
**08.05.1991** Service defect: 'TS - ENGINE WATER LEAK - * ACTUAL CAUSE OF WATER LEAK AS ABOVE *'.
**08.05.1991** Service defect: 'TS - ENGINE WATER LEAK - LOSS OF COOLING WATER - TEMP/PROBE REPLACED.(EX EL51) (DETATCHED TRN.NO.3347) - WATER TEMP.RECORDED 115C.'.
**13.06.1991** Service defect: 'TS - COOLING SYSTEM - FAULTY WATER TEMP PROBE,REPLACED WITH AB.AIR TEMP PROBE.LOADTESTED OK, A/C HOT ENGINE.'.
**01.07.1991** Service defect: 'A - L6 FUEL PUMP LEAKING SLIGHTLY,TO MONITOR.2/7.'.
**01.07.1991** Service defect: 'A - SLIP RING ON AC ALTERNATOR SLIGHTLY PITTED,TO'.
**01.07.1991** Service defect: 'A - MONITOR.2/7.'.
**01.10.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - OBS.DESK LAMP HOLDER REPAIRED.'.
**01.10.1991** Service defect: 'B - FUEL SYSTEM PUMP - L16 FUEL PUMP LEAK REPAIRED.'.
**01.10.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - NO.2 MAIN RES.AUTO DRAIN COCK LEAK REPAIRED.'.
**01.10.1991** Service defect: 'B - OTHER BODY REPAIRS - REAR MIRRORS REPLACED.'.
**01.10.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - EVERY SINGLE T/M. BRUSH CHANGED A/C TOO SHORT.'.
**09.12.1991** Service defect: 'SW - OTHER BODY REPAIRS - STEP MODS COMPLETED.'.
**12.12.1991** Service defect: 'TS - BOGIE - SPREADER BAR DAMAGED - 'B'BOGIE SPREADER BAR RE-NEWED.'.
**12.12.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE FAILURE - SPEEDO ASSEMBLY REPLACED. (DRIVE BROKEN)'.
**02.01.1992** Service defect: 'A - BOGIE - ALL NOSE SUSPENSION PINS CHANGED.'.
**02.01.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED.'.
**02.01.1992** Service defect: 'A - SLIP RING TO MONITOR A/C PITTED.'.
**24.01.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - CABLES TO NO 3 TRACTION MOTOR ARCED OUT ON CABLE CLAMP,CABLE RE TAPED AND RUBBER INSULATION REPOSITIONED'.
**18.02.1992** Service defect: 'UN - BOGIE - ROTATE BOGIES ADVISEDBY B.MCDONALD.'.
**18.02.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED ACCOUNT OF SHARP FLANGES.'.
**18.02.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP.UNLOADS,PIPES AND FILTERS ALL DIRTY .CLEANED.'.
**26.02.1992** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - SPEEDO CONNECTED.LOCO MOVEMENT TESTED OK.'.
**11.03.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE REPAIRED FRONT O/SIDE.COCK REPLACED,HOSES REP.'.
**25.03.1992** Service defect: 'C - COOLING SYSTEM - COOLANT CHANGED.'.
**25.03.1992** Service defect: 'C - DYNAMIC BRAKE - DYNAMIC BRAKE ERRATIC IN NOTCHES 3,4&5.'.
**25.03.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - COMPLETE BRUSH CHANGE ON ALL MOTORS.'.
**25.03.1992** Service defect: 'C - SLIP RING TO MONITOR ON ALTERNATOR.A/C PITTED.'.
**19.05.1992** Service defect: 'UN - BLOCKED FILTERS - INLINE STRAINER RENEWED TO BRAKE RACK,A/C BLOCKED.'.
**25.05.1992** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR FLEXIBLE COUPLING REPAIRED.'.
**25.05.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - MODIFIED D.B.V FITTED.'.
**25.05.1992** Service defect: 'TS - VIGILANCE - SOLENOID VALVE IN V/C REPAIRED & TESTED OK.'.
**01.06.1992** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL

PUMPS TIMED R2 ADJUSTED,A/C DROPPING POWER + TORCHING.'.

**01.06.1992** Service defect: 'UN - GENERAL - OBS/BLIND REPAIRED.'.

**29.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DRIVERS BRAKE VALVE CHANGED A/CBLOWING.'.

**13.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER IN AIR CON. CHECKED OK.'.

**13.07.1992** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.

**21.08.1992** Service defect: 'B - FUEL SYSTEM PUMP - L6 FUEL PUMP TIGHTENED A/C SLIGHT LEAK.'.

**21.08.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL CHANGE COMPLETED.'.

**21.08.1992** Service defect: 'B - OTHER BODY REPAIRS - HOOTER METAL GAURD FITTED. O/SIDE STEP WELDED.'.

**14.09.1992** Service defect: 'UN - ENGINE - LOCO ENGINE ROOM WASHED,A/C OIL LEAK. Q/FIX TO LOCATE OIL LEAK.'.

**22.09.1992** Service defect: 'TS - GENERAL - SOFTWARE CHANGED OVER ON AUX COMPUTER,A/C INCORRECT ONE FITTED.'.

**16.10.1992** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR U/S - HAULED TO PT AUG TO CHANGE WITH ONE FROM SPARE ENGINE.'.

**10.11.1992** Service defect: 'A - AIR CONDITIONING - AIR/CON HEATING CHECKED OK. THERMOSTAT SET AT 25DEGS.'.

**10.11.1992** Service defect: 'A - GENERAL - W/WIPER DRIVERS SIDE CHANGED. BOTH FOOT HEATERS CHECKED OK.'.

**10.11.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - LONG HORN REPLACED, A/C THREAD WORN.'.

**20.11.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR MODS COMPLETED. LOCO LOAD TESTED OK & CHACKED OK FOR WATER LEAKS.'.

**30.12.1992** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED. L4 SHOCKER BRACKET FITTED.'.

**18.02.1993** Service defect: 'D - ENGINE - R4 POWER ASSEMBLY CHANGED, A/C FAULTY VALVES.'.

**18.02.1993** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - MANIFOLD LEAK TO BRAKE RACK REPAIRED & RELAY VALVE REPLACED.'.

**18.02.1993** Service defect: 'D - NO 3 T/M HAS 2 GOUGES OUT OF COM, A/C BRUSHES'.

**18.02.1993** Service defect: 'D - BEING ALLOWED TO GET TO SMALL.18/2. UNLOADER CAPS'.

**18.02.1993** Service defect: 'D - SEIZED.18/2.'.

**05.03.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO'S 2 & 5 WHEELSETS ROTATED, DIRECTION TESTED OK,SPEEDO CHECK OK.'.

**05.03.1993** Service defect: 'UN - TRACTION MOTOR - NO'S 2 & 5 T/MOTORS ROTATED.'.

**21.04.1993** Service defect: 'UN - BOGIE - SHOCKER & SHOCKER BRACKETS REPLACED. SPREADER BAR SECURED.'.

**21.04.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - 2 BRUSH HOLDERS REPLACED IN NO 2 T/M. ALL BRUSHES REPLACED.'.

**22.07.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - INSPECTION PLATE ON TURBO WATER JACKET WAS LEAKING,REMOVED PLATE & RENEWED GASKET.'.

**22.07.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES CHANGED,A/C TOO SHORT.'.

**17.09.1993** Service defect: 'UN - ENGINE WATER LEAK - WATER PUMP CHANGED, A/C WATER LEAKS. TESTED OK.'.

**07.10.1993** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - BCP PRESSURE SWITCH REPLACED A/C BADLY BURNT.'.

**07.10.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - TOP BRUSH HOLDER ON NO.1 T/M REPLACED A/C HAMMER PIVOT PIN MOVED. ALL OTHER B/HOLDERS CHECKED OK.'.

**09.10.1993** Service defect: 'UN - BOGIE - NO.2 WHEEL ASSEMBLY PLACED IN NO. 4 POSITION AND NO.4 PLACEDIN NO.2 POSITION.'.

**09.10.1993** Service defect: 'UN - TRACTION MOTOR - NO.2 T/M REPLACED A/C DAMAGED COMMUTATOR.'.

**26.11.1993** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT LENS REPLACED.'.

**26.11.1993** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR REPLACED.'.

**26.11.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADERS REPLACED.'.

**26.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - M/R PIPE REPLACED.'.

**26.11.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED. CONTROLLER REINSTALLED. LOCO LOAD TESTED OIK.'.

**26.11.1993** Service defect: 'UN - TRACTION MOTOR - NO 4 GEARCASE T/M BOLT REPLACED.'.

**26.11.1993** Service defect: 'UN - DATA LOGGER, 100M COUNTER & SWITCH FOR COUNTER'.

**26.11.1993** Service defect: 'UN - REQ'D.26/11.'.

**12.12.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - J1 RELAY VALVE REPLACED WITH VALVE EX EL53 A/C LEAKING.'.

**22.12.1993** Service defect: 'C - BATTERY MAINTENANCE - BATTERY BOX SLIDES WASHED AND LUBRICATED, CHECKED OK.'.

**22.12.1993** Service defect: 'C - BOGIE - REAR SPREADER BAR REPLACED. AXLE BOX SNUBBER BRACKETS FOUNDBROKEN. BOLTS DRILLED OUT AND REPLACED.'.

**22.12.1993** Service defect: 'C - LUBRICATING SYSTEM - OIL CHANGED.'.

**22.12.1993** Service defect: 'C - MECHANICAL EQUIPMENT - AIR DRYER REPLACED.'.

**22.12.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - A1 CHARGING VALVE REPLACED. 'A'END AUTO DRAIN VALVE REPLACED.'.

**22.12.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - NO.1 TOP B?HOLDER CHANGED A/C PIVOT PIN MOVED.'.

**29.12.1993** Service defect: 'TW - ELECTRICAL MISC. MODULES - NEW MEMORY MODULE FITTED, A/C SPEEDO ONLY REGISTERING UP TO 49 KPH.'.

**01.03.1994** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - BOGIE SPRING (REAR) L5 REPOSITIONED.'.

**01.03.1994** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLASS REPLACED.'.

**11.03.1994** Service defect: ‘A - BOGIE - NO.5 T/M CONCERTINA REPLACED, A/C SPLIT.’.
**11.03.1994** Service defect: ‘A - ELECTRICAL MISCELLANEOUS - CAB COMPUTER DOWN LOADED AND FAULT MEMORY ERASED.’.
**11.03.1994** Service defect: ‘A - OTHER BODY REPAIRS - HATCH SEAL REPLACED. HATCH HOLD DOWN BRACKETS INSTALLED.’.
**11.03.1994** Service defect: ‘A - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED.’.
**26.04.1994** Service defect: ‘SW - BOGIE MAINTENANCE - WHEELS - NO 2 WHEELSET REPLACED.’.
**26.04.1994** Service defect: ‘SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE - MPC MANUFACTURED, FITTED TO LOCO.’.
**11.06.1994** Service defect: ‘B - ALTERNATOR - ALTERNATOR BLOWER DUCT REPAIRED.’.
**11.06.1994** Service defect: ‘B - BOGIE - L4 SHOCKER BRACKET TIGHTENED.’.
**11.06.1994** Service defect: ‘B - CONTACTOR MISCELLANEOUS - CONTACT TIPS REPLACED - P6 CONTACTOR, SHUNT P6 REPLACED, SPRING P6 REPLACED.’.
**11.06.1994** Service defect: ‘B - ENGINE WATER LEAK - WATER LEAK AT RADIATOR BELLOW D/SIDE TIGHTENED.’.
**11.06.1994** Service defect: ‘B - MECHANICAL EQUIPMENT BRAKE VALVE - A1 CHARGING VALVE REPAIRED.’.
**11.06.1994** Service defect: ‘B - CENTRE EXHAUST FLANGE CRACKED - OBS SIDE.’.
**15.09.1994** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - GF C/BREAKER TRIPPING CHECKED OK’.
**99.99.9999** Service defect: ‘UN - ROUGH RIDING - SPREADER BAR & LUG MISSING ‘B‘BOGIE’.

**EL 59**

Details: locomotive ‘EL 59 M’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 10.05.1991
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 08.02.1997 | | |
| SW Service Mileage: | 1357147 KM | SW Service Date: | 06.11.1996 |
| A Service Mileage: | 1343802 KM | A Service Date: | 15.10.1996 |
| B Service Mileage: | 1266124 KM | B Service Date: | 12.07.1996 |
| C Service Mileage: | 1120506 KM | C Service Date: | 05.01.1996 |
| D Service Mileage: | 1398243 KM | D Service Date: | 23.01.1997 |
| WT Service Mileage: | 594065 KM | WT Service Date: | 30.09.1993 |
| US Service Mileage: | 1414366 KM | A Service Date: | 08.02.1997 |

**14.05.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - FULL AIR BRAKE TEST COMPLETED.’.
**14.05.1991** Service defect: ‘UN - OTHER BODY REPAIRS - CAB AND ENGINE ROOM FITTINGS COMPLETED.’.
**14.05.1991** Service defect: ‘UN - ‘KOBE’ BANK LABEL TO BE POP RIVETED WHEN AVAILABLE’.
**15.05.1991** Service defect: ‘SW - OTHER BODY REPAIRS - MODIFICATION - GONINAN RETRO/FIT PROGRAMME COMPLETED.’.
**22.05.1991** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - NOZZLE REPLACED ON SANDER.’.
**22.05.1991** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR PIPE ‘A’ END REPAIRED.’.
**29.05.1991** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS DAMAGED - R.1&4 SANDER NOZZLES & BRACKETS RE-ALIGNED’.
**08.06.1991** Service defect: ‘SW - GENERAL - RESEALED FRONT CAB & ROOF.’.
**08.06.1991** Service defect: ‘SW - MECHANICAL EQUIPMENT SANDING GEAR - 2 SANDING NOZZLES REPLACED.’.
**08.06.1991** Service defect: ‘SW - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE REPAIRED.’.
**25.06.1991** Service defect: ‘UN - NO FAULT FOUND - SPEEDO CHECKED,NO FAULT FOUND.POWER FAULT,NO FAULT EVIDENT.’.
**09.07.1991** Service defect: ‘UN - SPEEDO TO CHECK,MIRROR TO REPLACE.9/7.*’.
**12.08.1991** Service defect: ‘A - STAINLESS PLATE & ’O’RING REMOVED FROM LONG HORN’.
**12.08.1991** Service defect: ‘A - ‘A‘END FOR EL 61.12/8.’.
**25.09.1991** Service defect: ‘UN - GENERAL - FRONT A/C HIT COW.AIR HOSE REPAIRED.’.
**11.10.1991** Service defect: ‘UN - OTHER BODY REPAIRS - TOILET DOOR CATCH REPAIRED.’.
**01.11.1991** Service defect: ‘SW - LUBRICATING SYSTEM - OIL CHANGED,A/C HIGH VISCOCITY.’.
**11.11.1991** Service defect: ‘B - OTHER BODY REPAIRS - STEPS ON LOCO REPLACED WITH NEW TYPE.’.
**11.11.1991** Service defect: ‘B - TRACTION MOTOR BRUSHES - BRUSHES CHANGED IN ALL 6 T/MOTORS,A/C VERY SHORT.’.
**28.11.1991** Service defect: ‘SW - BOGIE - BOGIE ROTATION COMPLETED.MOVEMENT TESTED OK.’.
**19.12.1991** Service defect: ‘UN - ENGINE WATER LEAK - RADIATOR REMOVED, MIDDLE GASKET SET REPLACED,A/C WATER LEAK.’.
**19.12.1991** Service defect: ‘UN - GENERAL - KETTLE POWER OUTLET CHECKED OK.’.
**10.01.1992** Service defect: ‘UN - COOLING SYSTEM RADIATOR - RADIATOR REPLACED AND STRENGTHENED.’.
**13.02.1992** Service defect: ‘A - CONTACTOR MISCELLANEOUS - XFC CONTACTS AND SHUNT CHANGED.’.
**13.02.1992** Service defect: ‘A - TRACTION MOTOR BRUSHES - FULL BRUSH CHANGE,A/C CONDEMING LIMIT.’.
**03.04.1992** Service defect: ‘TS - ELECTRICAL MAINTENANCE -WIRING - LOCO REWIRED.-HI-POT TESTED.OK.’.
**03.04.1992** Service defect: ‘TS - ELECTRICAL MISC - FUSES/HOLDERS - COMP. GOV. SQUARE‘D’ ADJUSTED.’.

**03.04.1992** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMP REPLACED,A/C REMOVED FOR EL 56.'.
**03.04.1992** Service defect: 'TS - GENERAL - WINDSCREEN WIPER MOTOR REPLACED,A/C REMOVED FOR EL 63.'.
**03.04.1992** Service defect: 'TS - LUBRICATING SYSTEM - OIL PRESSURE TRANSDUCER REPLACED.'.
**21.04.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADS INSPECTED A/C BAD LEAK. TO BE REPLACED ASAP. RADS TO BE MADE AVAILABLE EARLY NEXT WEEK EX ISLINGTON WORKS.'.
**07.05.1992** Service defect: 'C - COOLING SYSTEM RADIATOR - MODS TO RADIATOR MOUNTS AND RADIATOR FLOOR MOUNTS COMPLETED.'.
**07.05.1992** Service defect: 'C - GENERAL - D/SIDE MIRROR REPLACED.WINDSCREEN WIPER REPAIRED.'.
**31.07.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 30 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.
**28.10.1992** Service defect: 'B - COOLING SYSTEM RADIATOR - MECH BONDED RADIATORS FITTED, A/C RAD MOD. CHECKED OK FOR WATER LEAKS.'.
**28.10.1992** Service defect: 'B - ENGINE - ENGINE HATCH CLIPS REPAIRED.'.
**03.11.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - T/M BRUSH REPLACED IN NO 6 T/MOTOR, A/C PIGTAILS.'.
**22.12.1992** Service defect: 'UN - AIR CONDITIONING - AIR/CON.CHANGED.TESTED OK.'.
**15.01.1993** Service defect: 'A - AIR CONDITIONING - AIR/COND.WORKING THERMOSTAT ADJUSTED.'.
**28.01.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO.2 AND NO.5 WHEEL SET ROTATED.'.
**26.03.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.
**26.03.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 2 WEELSET INSTALLATION COMPLETED. LOCO DIRECTION TESTED OK.'.
**14.04.1993** Service defect: 'D - BOGIE - SPREADER BAR REPLACED ON B END BOGIE.'.
**19.06.1993** Service defect: 'UN - TRACTION MOTOR - MOST OF COPPER SCRAPPED OUT OF NO 6 T/MOTOR. T/M CLEANED UP'.
**19.06.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED,A/C DOWN TO PIGTAILS OR SHORTER'.
**19.06.1993** Service defect: 'UN - NO 6 T/M TO VEE OUT.19/6.'.
**29.06.1993** Service defect: 'A - COOLING SYSTEM - WATER VENT PIPE REPLACED WITH FLEXIBLE FITTING.'.
**29.06.1993** Service defect: 'A - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED,A/C LEAKING.'.
**29.06.1993** Service defect: 'A - TRACTION MOTOR - NO 6 T/MOTOR VEED OUT.'.
**03.08.1993** Service defect: 'UN - GENERAL - NEW FLANGE ASSEMBLY FITTED & TOILET ASSEMBLY COMPLETED.'.
**03.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - ROOF CAB SEAL REPAIRED.'.
**03.08.1993** Service defect: 'UN - TRACTION MOTOR - T/MOTOR BRUSH MEASUREMENTS TAKEN.'.
**16.09.1993** Service defect: 'B - EXHAUST - EXHAUSTS REPAIRED AND CHECKED OK.'.
**16.09.1993** Service defect: 'B - GENERAL - OBS/SIDE REAR STEP LIGHT REPAIRED. D/SIDE WINDOW LATCH REPAIRED.'.
**28.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WILL NOT LOAD : TRAINLINE FAULT FOUND BETWEEN PINS 8 & 9 - TRAINLINE RESET AT COMPUTER,LOADED OK.'.
**11.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR PIPE LEADING INTO B/CYLINDER REPLACED A/C BROKEN AWAY. B/CYLINDER WAS OBS. SIDE 'B'END.'.
**21.10.1993** Service defect: 'UN - RAD FAN TO MONITOR, A/C CRACKS.21/10.'.
**05.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE REPAIRED TO OBS/SIDE REAR H/BRAKE.'.
**05.11.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN REPLACED, A/C 1' CRACK IN NO 2 BLADE. LOAD TESTED OK 2275KW.'.
**03.12.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - REPLACED SPRING IN CONTROLLER, A/C SKIPPING NOTCHES.'.
**03.12.1993** Service defect: 'A - LUBRICATING SYSTEM - VICTAULIC REPLACED, A/C OIL LEAK ABOVE W/PUMP'.
**03.12.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - REPLACED TOP BRUSH HOLDER IN NO 1 T/M, A/C ROLL PIN MOVED ALLOWING SHAFT TO FALL OUT.'.
**10.02.1994** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 2 AND 5 WHEELSETS SWAPPED AND RECONNECTED. DIRECTION TESTED OK.'.
**10.02.1994** Service defect: 'SW - TRACTION MOTOR - NO 6 T/M CHECKED OK, CLEANED UP AND VEED OUT WHERE NECESSARY'.
**24.02.1994** Service defect: 'C - BOGIE - BOGIE ROTATION COMPLETED.'.
**24.02.1994** Service defect: 'C - CONTACTOR MISCELLANEOUS - XFC CONTACTS & SPRINGS CHANGED.'.
**24.02.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - RV REPLACED, A/C BLOWN TRANSISTOR.'.
**24.02.1994** Service defect: 'C - GENERAL - DRIVERS SIDE WINDOW CHANGED. ARM RESTS REPLACED.'.
**24.02.1994** Service defect: 'C - MECHANICAL EQUIPMENT BRAKE VALVE - M.R. AUTO DRAIN VALVES, NEW SEALS FITTED.'.
**21.04.1994** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 5 WHEESET AND T/MOTOR INSTALLATION COMPLETED, A/C FLANGE CONDITION.'.
**21.04.1994** Service defect: 'SW - TRACTION MOTOR - TRACTION MOTOR SERIAL NO OUT: 8910009. IN: 8912046.'.
**29.04.1994** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - P.C. GROUNDS - FAULT FOUND IN GROUND DETECTION CIRCUIT. GRIDS OK. R.B. RESISTOR REPLACED IN GROUND CIRCUIT. LOCO'.
**29.04.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE REPAIRS 'B'END - T/P COCK REPAIRED AND HOSES REPLACED ON LOCO.'.
**02.05.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - PCS TRIPPING - PCS ADJUSTED TO CORRECT PRESSURES AND TESTEDOK IN DEPOT.'.
**02.05.1994** Service defect: 'TS - TRACTION MOTOR - 'A'CABLE ON NO 2 T/MOTOR REINSULATED, A/C

TRACKING TO FRAME (ON HI POT TEST).'.

**07.05.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - COPPER PIPE TO P2A NO 3 PORT REPAIRED, A/C HOLED.'.

**07.05.1994** Service defect: 'UN - VIGILANCE - VIG CUT IN AND TESTED OK.'.

**07.05.1994** Service defect: 'UN - FUEL LINES TO CHANGE FROM FUEL TANK OBS/SIDE, A/C'.

**07.05.1994** Service defect: 'UN - RUBBED ON COPPER PIPE.7/5.'.

**20.05.1994** Service defect: 'A - ELECT - RECEPTACLES/INTER CAR COUPLINGS - CONDUIT GROMMET CHECKED OUT OK, A/C MELTED ON JUMP START RECEPTACLE THROUGH BATTERY BOX.'.

**20.05.1994** Service defect: 'A - FUEL SYSTEM LINES - FUEL LINES FROM FUEL TANK OBS/SIDE REPAIRED, A/C RUBBED ON COPPER PIPE.'.

**20.05.1994** Service defect: 'A - DRIVERS SIDE CAMSHAFT LOBES WORN - TO MONITOR'.

**20.05.1994** Service defect: 'A - INTERMEDIATE WEAR.23/5.'.

**31.05.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - P4 CONTACTOR REPLACED - CHECKED OK.'.

**08.09.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - WHB AUTO BRAKE FAULT'.

**08.09.1994** Service defect: 'UN - AUTO BRAKE FOR REPAIR'.

**EL 60**

Details: locomotive 'EL 60 X' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 18.06.1991
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 09.04.1997 | | |
| SW Service Mileage: | 1388031 KM | SW Service Date: | 04.09.1996 |
| A Service Mileage: | 1434885 KM | A Service Date: | 13.11.1996 |
| B Service Mileage: | 1359798 KM | B Service Date: | 03.08.1996 |
| C Service Mileage: | 1211015 KM | C Service Date: | 01.02.1996 |
| D Service Mileage: | 1503221 KM | D Service Date: | 14.03.1997 |
| WT Service Mileage: | 1404619 KM | WT Service Date: | 08.10.1996 |
| US Service Mileage: | 1525543 KM | A Service Date: | 09.04.1997 |

**18.06.1991** Service defect: 'UN - BOGIE - 'A'END BOGIE WASHED,A/C HIT SHEEP.'.

**18.06.1991** Service defect: 'UN - GENERAL - AFULE INSPECTION COMPLETED,OK.'.

**24.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - D/S SPEEDO REPLACED.'.

**24.07.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - MONTHLY SERVICE (ELECTRICAL) COMPLETED.'.

**24.07.1991** Service defect: 'SW - GENERAL - TOILET DOOR LATCH REPAIRED.'.

**24.07.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - MONTHLY SERVICE (MECHANICAL) COMPLETED.'.

**01.08.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - MAIN DC+ & DC- BUS BARS MACHINED & RETINNED,A/C BURNT WHERE CONNECTED TO POWER RECTIFIERS.TESTED OK.'.

**01.08.1991** Service defect: 'TS - ELECTRICAL MISC. LOOSE CONNECTIONS - 2 POWER RECTIFIER ASSEMBLIES REPLACED, A/C BURNT.'.

**07.09.1991** Service defect: 'UN - MECHANICAL AIR BRAKE REPAIRS - ACCIDENT - NEW FRONT TRAIN PIPE FITTED'.

**17.09.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES CHANGED,A/C WOULD NOT REACH NEXT SERVICE'.

**16.10.1991** Service defect: 'SW - GENERAL - GONINAN MODS COMPLETED.'.

**22.10.1991** Service defect: 'UN - BOGIE - SPREADER BAR - 'B'BOGIE SPREADER BAR REPLACED. (REMOVED BY DRIVER ON 2139 A/C DRAGGING)'.

**22.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN STEP - O/SIDE STEP RE-WELDED.'.

**08.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HOSE BROKEN - BRAKE/PIPE REPLACED,I.R.HOSE REPLACED(HEAD U/S('A'END)'.

**08.11.1991** Service defect: 'UN - NO FAULT FOUND - NO AIR FROM PIPES - I.R.PIPES CHECKED OK BOTH ENDS.'.

**08.11.1991** Service defect: 'UN - OTHER BODY REPAIRS - MIRROR U/S - O/SIDE MIRROR REPLACED.'.

**17.12.1991** Service defect: 'B - GENERAL - NEW STEPS FITTED.ALL NOSE SUSPENSION PINS REPLACED.'.

**17.12.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES CHANGED.'.

**20.12.1991** Service defect: 'UN - BOGIE - BOGIES ROTATED.'.

**20.01.1992** Service defect: 'UN - ENGINE WATER LEAK - COPPER VENT PIPE ON ENGINE REMOVED,WELDED & REPLACED,A/C WATER LEAK.'.

**17.03.1992** Service defect: 'A - FUEL SYSTEM - FUEL FLOAT REPLACED.'.

**17.03.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED ON T/MS NO.1-4.A/C SHORT.'.

**17.03.1992** Service defect: 'A - RADIATORS LEAKING AT JOINTS.'.

**31.03.1992** Service defect: 'TS - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 2 CONTROL PINS REPAIRED.A/C BROKEN.'.

**31.03.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - RADIATOR FAN PANEL REPLACED A/C AUX GEN NOT FIRING UP'.

**12.06.1992** Service defect: 'C - COOLING SYSTEM RADIATOR - JOINTS RETORQUED,A/C RADIATORS LEAKING AT JOINTS.'.

**24.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS REPORTED AS CONDEMNED. LOCO CHECKED OK IN DEPOT.SENTINTO TRAFFIC.'.

**24.08.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE POT REPLACED A/C BLOWN.'.

**02.09.1992** Service defect: 'A - BOGIE - BRAKE RIGGING RESET AFTER RETURN FROM WTM.'.

**02.09.1992** Service defect: 'A - COOLING SYSTEM RADIATOR

- RADIATOR LEAK REPAIRED - LOOSE FITTING TIGHTENED.'.

**02.09.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE COCK LEAK REPAIRED.'.

**02.09.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 38 BRUSHES CHANGED A/C CONDEMNING LIMIT.'.

**04.12.1992** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED.'.

**04.12.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOCO RADIATORS REPLACED & TESTED FOR WATER LEAKS. PIN HOLE LEAK ON WELD REPAIRED.'.

**04.12.1992** Service defect: 'UN - FUEL SYSTEM - MOD FUEL FLOAT INSTALLED.'.

**04.12.1992** Service defect: 'UN - GENERAL - OBS/SIDE WINDOW WIPER REPLACED.'.

**22.01.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - 402A FAULT. * SEE CLIVE GOLDSMITH FOR DETAILS.*.'.

**23.02.1993** Service defect: 'A - AUXILLARY MACHINES - RFP REPLACED A/C TAKEN FOR EL63.'.

**23.02.1993** Service defect: 'A - EXHAUST - EXHAUST MANIFOLD OBS. SIDE WELDED A/C CRACKING AROUND FLANGECONNECTION.'.

**23.02.1993** Service defect: 'A - GENERAL - AIR CONDITIONING MOD. FITTED,THERMSTAT RESET TO 20 DEGREES CELCIUS.'.

**23.02.1993** Service defect: 'A - OTHER BODY REPAIRS - HAND RAIL BLACKENED ABOVE MARKER LIGHTS.'.

**12.03.1993** Service defect: 'UN - BOGIE - FLANGE LUBRICATORS REPLACED CENTURY DRI-LUBE TYPE,BRACKETSMODIFIED TO SUIT.'.

**12.03.1993** Service defect: 'UN - AIR CONDITIONER TO BE REPAIRED A/C AIR COMPRESSOR'.

**12.03.1993** Service defect: 'UN - LOOSE ON ITS MOUNTINGS'.

**13.04.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - NEW COMPRESSOR INSTALLED,A/C BURNT OUT. TESTED OK.'.

**22.05.1993** Service defect: 'D - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED,A/C LEAKING EXCESSIVELY.'.

**22.05.1993** Service defect: 'D - ELECTRICAL MISCELLANEOUS - MAN POWER CONTROL RHEOSTAT CHANGED,A/C BURNT.'.

**22.05.1993** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - EXHAUST & INLET VALVE IND BRAKE MODULE FOUND ASSEMBLED INCORRECTLY & WRONG GASKET FITTED. PROBLEM CORRECTED. BRAKES'.

**22.05.1993** Service defect: 'D - MECHANICAL MAINTENANCE - SOUND WARNING - 'A'END HORN REPLACED,A/C MISSING.'.

**28.07.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES CHANGED AND LOCO RELEASED TO TRAFFIC.'.

**05.08.1993** Service defect: 'A - BOGIE - ALL FLANGE LUBES REPLACED, A/C WORN OUT. L.H. FRONT FLANGE LUBE BRACKET REPAIRED.'.

**05.08.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - NEW COMPRESSOR CONTACT FITTED (MIDDLE CONTACTOR ), A/C TIPS DISCOLOURED + LOOSE.'.

**05.08.1993** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - HIGH NOTE HORN REPAIRED.'.

**05.08.1993** Service defect: 'A - OTHER BODY REPAIRS - M.R. DUMMY COUPLING REPLACED.'.

**10.08.1993** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED, ELECTRICAL & MECHANICAL RECONNECTION COMPLETED.'.

**22.10.1993** Service defect: 'B - GENERAL - DRIVERS SEAT REPLACED, A/C NO WEIGHT ADJUSTMENT.'.

**05.11.1993** Service defect: 'TS - GENERAL ACCIDENT - COLLISION REPAIRS - INCID NO TX78. BRAKE CYLINDERS REPLACEDOBS/SIDE. BATTERY BOX COVER FABRICATED.'.

**22.11.1993** Service defect: 'TS - ENGINE GOVERNOR - GOVERNOR REPLACED,EX EL 58, A/C LEAKING UNDER LOAD. LOAD TEST OK.'.

**22.11.1993** Service defect: 'TS - GENERAL - OBS/SIDE SEAT REPLACED.'.

**22.11.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR GAUGE GLASS REPLACED.'.

**18.12.1993** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED, A/C LEAKING. THIS WAS LAST W/PUMP MOD.'.

**29.12.1993** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER REMOVED AND DRAINS RE-ROUTED SO AS WATER CANDRAIN AWAY FROM AIR COND. UNIT.'.

**07.01.1994** Service defect: 'A - BOGIE - R2 B/CYLINDER REPLACED. WELDS REPAIRED ON WEAR PLATES.'.

**07.01.1994** Service defect: 'A - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED, A/C LEAKING.'.

**07.01.1994** Service defect: 'A - EXHAUST - CRACKED EXHAUST FLANGES, ONE AT TURBO AND ONE AT CENTRE CHECKED OK.'.

**07.01.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BP ON 'B'END LEAKING AT JOINT. REPAIRED.'.

**17.01.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - EBC CONTACTOR OVERLOAD, A/C CONTACTOR POSITIONING. AUXILARY FALLEN OFF. REPLACED AND CHECKED OK.'.

**07.03.1994** Service defect: 'UN - BOGIE - NEW BOGIES FITTED EX ISL. MOVEMENT TESTED OK.'.

**22.03.1994** Service defect: 'C - EXHAUST - CRACK IN EXHAUST TOP OBS/SIDE 'B'END OF ENGINE WELDED.'.

**22.03.1994** Service defect: 'C - GENERAL - WINDOW WASHERS REPAIRED. BATTERY BOX ROLLERS FREED UP WITH CRC.'.

**22.03.1994** Service defect: 'C - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.

**22.03.1994** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UN-LOADERS CHECKED.'.

**22.03.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER REPLACED.'.

**22.03.1994** Service defect: 'C - TRACTION MOTOR - ALL T/M INSPECTED BY T. GARRARD, A/C OILY FILM INSIDE MOTORSMR. GARRARD GAVE THE MOTORS THE OK.'.

**22.03.1994** Service defect: 'C - EXHAUST MANIFOLD L1,2,3 TO BE WELDED, A/C CRACKED.'.

**22.03.1994** Service defect: 'C - 22/3/94. 3-12 EQUIP. BLOWER TEST 261DOES NOT'.

**22.03.1994** Service defect: 'C - WORK.22/3.'.

**28.03.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - COMPUTER POWER SUPPLY CHANGED, A/C NO OUTPUT ON ANY TEST POINTS. TESTED OK.'.
**16.06.1994** Service defect: 'A - BOGIE - L6 SHOCKER BOLT REPLACED, A/C BROKEN.'.
**16.06.1994** Service defect: 'A - ENGINE - ENGINE MOUNTS TIGHTENED.'.
**16.06.1994** Service defect: 'A - EXHAUST - EXHAUST MANIFOLD L1,L2 AND L3 WELDED, A/C CRACKED.'.
**16.06.1994** Service defect: 'A - ALT BLOWER DUCT TO MONITOR, A/C CRACKING. 100M'.
**16.06.1994** Service defect: 'A - COUNTER TO REPLACE.16/6.'.
**01.07.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CDCI CONTACTOR REPLACED.'.

**EL 61**

Details: locomotive 'EL 61 R' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 09.07.1991
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 15.04.1997 | | |
| SW Service Mileage: | 1514464 KM | SW Service Date: | 15.04.1997 |
| B Service Mileage: | 1299823 KM | B Service Date: | 05.07.1996 |
| C Service Mileage: | 1102831 KM | C Service Date: | 10.10.1995 |
| D Service Mileage: | 1389686 KM | D Service Date: | 11.10.1996 |
| US Service Mileage: | 1456497 KM | A Service Date: | 24.01.1997 |

**09.07.1991** Service defect: 'UN - RADIO REPAIR - AUSTRAC RADIO REPAIRED.'.
**07.10.1991** Service defect: 'A - OTHER BODY REPAIRS - DOOR LATCH REPAIRED.'.
**04.12.1991** Service defect: 'UN - AIR CONDITIONING - AIR CON REPAIRED.'.
**10.12.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED OK FOR CRACKS,A/C BLOCKS RUBBING BADLY.'.
**10.12.1991** Service defect: 'UN - GENERAL - WINDOW REPAIRED,O/SIDE SEAT ADJUSTED.'.
**10.12.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE FRONT O/SIDE AIR LEAK REPAIRED.BRAKE TESTED OK. BOTH LEADING & TRAILING.'.
**07.01.1992** Service defect: 'B - BOGIE - NOSE SUSPENSION PINS REPLACED.'.
**07.01.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED.A/C VERY SHORT.'.
**13.02.1992** Service defect: 'TS - MECHANICAL AIR BRAKE REPAIRS - ACCIDENT - BREAK FAULT FOUND,A/C LEAK IN BREAK PIPE.FLOWMETER FAULT COULD NOT BE DUPLICATED.CHANGED TRIPLE,30ACDW,P2AA1 CUT OFF.'.
**20.02.1992** Service defect: 'UN - GENERAL - AIR FRIDGE REPAIRED,REPLACED STRAINER.'.
**20.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES.SEDIMENT STRAINER ELEMENT REPLACED.'.
**18.03.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - NEW RADIATORS INSTALLED & INSPECTED FOR LEAKS.OK.'.
**09.04.1992** Service defect: 'UN - GENERAL - D/SIDE ENGINE ROOM DOOR,TEMP REPS.'.
**09.04.1992** Service defect: 'UN - LUBRICATING SYSTEM - CRACKED PIPE ON BACK OF OIL FILTERS WELDED.'.
**03.07.1992** Service defect: 'C - LUBRICATING SYSTEM - OIL CHANGED.'.
**03.07.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER REPLACED.'.
**03.07.1992** Service defect: 'C - VIGILANCE - OBSERVERS VIG.BUTTON REPLACED.'.
**28.08.1992** Service defect: 'SW - CONTACTOR MISCELLANEOUS - P2 CONTACTOR REPLACED. A/C FRONT CONTACT TIP BROKE OFF PIVOTARM.'.
**31.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - O/SIDE WINDOW REPLACED A/C CRACKED.'.
**25.09.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - CHANGED CONTACTS ON XFC CONTACTOR, A/C BURNT & PITTED BADLY.'.
**25.09.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - LONG HORN REPLACED.'.
**10.11.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL PIPE TO REAR OF MICHIANA TANK WELDED UP, A/C CRACKED.'.
**21.12.1992** Service defect: 'B - MAIN GENERATOR - ALL BRUSHES CHANGED ON MAIN GEN.'.
**30.12.1992** Service defect: 'UN - GENERAL - 'A'END COW CATCHER & TRAIN PIPE REPAIRS COMPLETED, COW CATCHER PAINTED.'.
**13.01.1993** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER REMOVED.'.
**13.01.1993** Service defect: 'UN - COW CATCHER TO REAPPLY.'.
**15.01.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS FITTED AND TESTED OK.'.
**15.01.1993** Service defect: 'SW - OTHER BODY REPAIRS - COW CATCHER FITTED AND PAINTED.'.
**08.02.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - RFP PANEL REPLACED, AIR CON CHECKED OK BY SIGMA, LOCO LOAD TEST OK.'.
**24.03.1993** Service defect: 'A - AIR CONDITIONING - AIR COND MOD COMPLETED.'.
**24.03.1993** Service defect: 'A - GENERAL - OBS/SIDE SIDE WINDOW REPLACED.'.
**19.04.1993** Service defect: 'UN - BOGIE - BRAKE SPREADER BAR REPLACED.'.
**19.04.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS REPLACED & MOD COMPLETED. AIR LEAK FROM PIPE UNDERFLOOR (TO RADIATOR SHUTTERS) REPAIRED.'.
**19.04.1993** Service defect: 'UN - VIGILANCE - VIG BUTTON REPAIRED.'.
**02.06.1993** Service defect: 'UN - RADIATOR/PRESSURISING

FAN - 44F3 RADIATOR FAN STOPPED WORKING. CBLG16 WIRE HAD COME OFFAT RFP PLUG. REFITTED NEW SOCKET PIN. PIN NO.1..'.

**25.08.1993** Service defect: 'UN - EXHAUST - R/H/S. 1, 2 AND 3 EXHAUST MANIFOLD CRACKS WELDED.'.

**25.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS SIDE CAB STEPS RE-WELDED A/C CRACKED.'.

**03.09.1993** Service defect: 'A - EXHAUST - EXHAUST JOINT REPLACED.'.

**03.09.1993** Service defect: 'A - HEADER TANK MOD TO DO.3/9.'.

**28.09.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - CRACK TEST COMPLETED.'.

**28.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MV BRAKE TEST COMPLETED. REPAIRED 3 BRAKE PIPE LEAKS, FOUND AND REPAIRED 9KPA LEAKAGE.'.

**21.10.1993** Service defect: 'SW - RAD FAN TO MONITOR, A/C CRACKS.21/10.'.

**03.12.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE LEAK REPAIRED.'.

**03.12.1993** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - LONG HORN REPLACED.'.

**18.12.1993** Service defect: 'UN - BROKEN PIPE - CRACKED PIPE AT MICHIANA REPAIRED.'.

**15.02.1994** Service defect: 'UN - AIR CONDITIONING - AIR COND. DRAIN HOSES CLEARED AND RE-DIRECTED, A/C DRAINS WERE FACING UP NOT ALLOWING WATER TO DRAIN.'.

**15.02.1994** Service defect: 'UN - GENERAL - SIGHT GLASS REPAIRED. RADIATOR COOLANT.'.

**23.02.1994** Service defect: 'A - BOGIE - R1 SHOCKER RUBBERS REPLACED. R4 SNUBBER BOLT REPLACED. DUMMYCOUPLING 'A'END REPLACED.'.

**23.02.1994** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATOR PIPE BRACKET REPAIRED.'.

**23.02.1994** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - ELECT CONDUIT WIRING TO M.R. DRAIN VALVE REPAIRED, A/C RUBBING THROUGH.'.

**23.02.1994** Service defect: 'A - ENGINE - VENT HOSE FITTED.'.

**23.02.1994** Service defect: 'A - GENERAL - OBS/SIDE SEAT REPLACED. TOILET FLUSH KNOB REPAIRED. WATER SAMPLE COCK FITTED.'.

**23.02.1994** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - LONG HORN FITTED.'.

**18.03.1994** Service defect: 'UN - CAM SHAFT - R1 FUEL PUMP ROLLER AND GUIDE REPLACED. RE-INSTALLED POWER ASSEMBLY.'.

**18.03.1994** Service defect: 'UN - COOLING SYSTEM - COOLANT CHANGED.'.

**18.03.1994** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED, A/C STILL ORIGINAL AND LEAKING.'.

**18.03.1994** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED, A/C WATER IN OIL.'.

**18.03.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN CHECKED FOR CRACKS AND FOUND 6-20MM CRACKS. LOCO TO BE BROUGHT BACK FOR REPAIRS NEXT WEEK.'.

**08.04.1994** Service defect: 'UN - LUBRICATING SYSTEM - MICHIANA OIL LEAK - REPAIRED AND CHECKED OK.'.

**08.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL LEAK - REPAIRED.'.

**08.04.1994** Service defect: 'UN - TRACTION MOTOR - T/MOTOR CLEAT ON NO 1 T/M TIED UP.'.

**19.05.1994** Service defect: 'C - BOGIE - L1,L3, AND R4 PEDESTAL LINERS WELDED, A/C CRACKED. R3 VERTICAL SHOCK ABSORBER REPAIRED.'.

**19.05.1994** Service defect: 'C - ENGINE - AIR DRYER CHANGED.'.

**19.05.1994** Service defect: 'C - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN REPLACED.'.

**19.05.1994** Service defect: 'C - OTHER BODY REPAIRS - FRONT SUPPORT BEAM CONNECTED TO COWCATCHER. MOUNTING BRACKET D/S WINDSCREEN WIPERS REPLACED.'.

**19.05.1994** Service defect: 'C - SCREW TO PLUG IN ON FRP PANEL MISSING.19/5.'.

**26.05.1994** Service defect: 'TS - ELECTRICAL MISC. MODULES - CPS MODULE REPLACED, A/C NO (V) OUTPUTS.'.

### EL 62

Details: locomotive 'EL 62 D' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 06.08.1991
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 15.04.1997 | | |
| Last Lift: | 28.04.1995 | | |
| SW Service Mileage: | 1450665 KM | SW Service Date: | 15.04.1997 |
| A Service Mileage: | 1392107 KM | A Service Date: | 25.01.1997 |
| B Service Mileage: | 870229 KM | B Service Date: | 08.11.1994 |
| C Service Mileage: | 1332585 KM | C Service Date: | 14.10.1996 |
| D Service Mileage: | 512535 KM | D Service Date: | 26.06.1993 |
| F Service Mileage: | 975157 KM | A Service Date: | 28.04.1995 |
| WT Service Mileage: | 746411 KM | WT Service Date: | 05.05.1994 |
| US Service Mileage: | 1399744 KM | A Service Date: | 10.02.1997 |

**05.08.1991** Service defect: 'SW - GENERAL - CAB FITTING COMPLETED.'.

**05.08.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST COMPLETED.'.

**09.08.1991** Service defect: 'UN - BOGIE - GEAR CASE CRATER CAP FROM TOP PLACED ON BOTTOM,PLATE WELDED OVER TOP & SILASTIC SEALED.'.

**09.08.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN /BRAKE POT REPLACED.'.

**09.08.1991** Service defect: 'UN - DATA LOGGER FAULT TO BE RESOLVED AT LATER DATE'.

**09.08.1991** Service defect: 'UN - WITH FISHER INDST & GONINAN.9/8.'.
**30.09.1991** Service defect: 'UN - FUEL SYSTEM - FUEL SHUT OFF FLOAT VALVE REPLACED A/C FAULTY.'.
**29.11.1991** Service defect: 'UN - GENERAL - STEPS FITTED.F/MANS SIDE WINDOW FITTED.DUMMY COUPLINGS FITTED.'.
**17.12.1991** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.
**17.12.1991** Service defect: 'SW - GENERAL - STEP BRACKETS WELDED.'.
**10.01.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FLOW METER REPLACED. A/C FAULTY.'.
**08.02.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FILTERS ON LOCO CLEANED - FLOW METER TESTED OK.'.
**12.02.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL TRACTION MOTOR BRUSHES REPLACED.'.
**30.03.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - PIG TAILS FOUND BROKEN ON TWO BRUSHES NO 6 TRACTION MOTOR'.
**30.03.1992** Service defect: 'UN - TWO BRUSHES TO CHANGE OUT NO 6 TRACTION MOTOR'.
**14.04.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO 3 T/MOTOR BRUSHES REPLACED,A/C WORN OUT,PIGTAILS TOUCHINGEARTH.3 O'CLOCK BRUSH HOLDER REMOVED,FILED & REPLACED. 9 O".
**23.04.1992** Service defect: 'UN - ENGINE - VICTAULICS REPLACED & LOAD TESTED OK.'.
**01.05.1992** Service defect: 'UN - GENERAL - TOILET DOOR LOCK REPAIRED.OK.'.
**04.05.1992** Service defect: 'A - OTHER BODY REPAIRS - BOTH FRONT WINDOWS SEALED.OK. TOILET DOOR LATCH REPAIRED.OK.'.
**28.05.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - JOINT ON MAIN RADIATOR TIGHTENED A/C LEAKING TOP DRIVERS SIDE'.
**28.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - FLOW METER CHANGED OUT A/C NOT INDICATING CORRECTLY WHEN ON TRAIN'.
**10.06.1992** Service defect: 'UN - AIR CONDITIONING - A/CON. THERMOSTAT CHECKED OK.'.
**10.06.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV. OIL CHECKED OK.'.
**10.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER CHECKED OK.'.
**16.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER CHANGED A/C WOULD NOT OPERATE UNTIL TRAIN PIPE RECHARGED.-C.ALEXANDRDIES TO FOLLOW UP ON FAULT.'.
**29.07.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER REPACED. COMP. UNLOADERS DONE.'.
**29.07.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED ON NO.1&2 T/MS.'.
**14.10.1992** Service defect: 'A - COOLING SYSTEM - ENGINE TEMP PROBE REPAIRED.'.
**14.10.1992** Service defect: 'A - GENERAL - SIGHT GLASS REPAIRED.'.
**14.10.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - HORN MOD COMPLETED.'.
**24.11.1992** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR MODS COMPLETED. LOCO LOAD TESTED OK.'.
**26.11.1992** Service defect: 'TS - COOLING SYSTEM - TEMP PROBE REPLACED, A/C U/S. LOCO LOAD TESTED OK, NO WATER LEAKS.'.
**03.12.1992** Service defect: 'TS - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED, A/C SEIZED. FAN SPEEDS OK. LOAD TEST 2260 KW. WATER TEMP 89 DEG CENT. OIL TEMP 99 DEG CENT.'.
**03.12.1992** Service defect: 'TS - M.R. AUTO DRAIN VALVE TO REPAIR NEXT SERVICE.3/12.'.
**12.01.1993** Service defect: 'B - ENGINE WATER LEAK - DRAIN VALVE LEAKING.REPLACED WATER TEMP SENSOR PLUG OK.'.
**12.01.1993** Service defect: 'B - EXHAUST - EXHAUST MANIFOLD FITTED.WATER PIPE ABOVE TURBO SECURED WITH BRACKET.'.
**12.01.1993** Service defect: 'B - GENERAL - VIGILANCE WARNING BELL FIXED OK.'.
**26.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - L4 SHOCK ABSORBER BRACKET WELDED AND BROKEN BOLTS REPLACED'.
**28.01.1993** Service defect: 'UN - BOGIE - L4 SHOCKER BRACKET REPLACED A/C CRACKED.'.
**13.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - DRIVER SIDE WINDOW CHANGED A/C CRACKED'.
**07.04.1993** Service defect: 'A - FUEL SYSTEM - FUEL TANK FLOAT VALVE MODIFIED.'.
**16.06.1993** Service defect: 'UN - AIR CONDITIONING - AIR COND MODS COMPLETED.'.
**16.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR FILLED & TESTED OK.'.
**26.06.1993** Service defect: 'D - ALTERNATOR - BLOWER DUCT ON ALTERNATOR WELDED,A/C CRACKED.'.
**26.06.1993** Service defect: 'D - BOGIE - 2 BOLTS REPAIRED ON L4 AXLE SHOCKER MOUNT,A/C BROKEN.'.
**26.06.1993** Service defect: 'D - COOLING SYSTEM - WATER TEMP SENSOR PLUG REPLACED.'.
**26.06.1993** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - DRIVERS BRAKE VALVE CHANGED,A/C BLOWING.'.
**26.06.1993** Service defect: 'D - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED.'.
**07.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DATA LOGGER CLEANED.'.
**07.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE LEAK REPAIRED.'.
**07.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - WATER LEAKS IN FRONT CAB SEALED.'.
**19.08.1993** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED AND WATER LINE REPAIRS DONE.'.
**07.09.1993** Service defect: 'A - LUBRICATING SYSTEM - OIL FILLER CAP (DRIVERS SIDE) REPLACED.'.
**07.09.1993** Service defect: 'A - OTHER BODY REPAIRS - D/S MIRROR REPLACED.'.
**07.09.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED.'.
**07.09.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 2 & NO 4 WHEELSETS REPLACED, A/C THIN FLANGES.'.
**22.10.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - EXISTING FAN REASSEMBLED & INSTALLED.

HATCHES INSTALLED, LOCO FILLED WITH WATER, LOAD TESTED OK.'.

**29.11.1993** Service defect: 'B - OTHER BODY REPAIRS - FRIDGE DOOR LATCH RE-LOCATED.'.

**29.12.1993** Service defect: 'UN - BOGIE - R4 SHOCKER BRACKET REWELED AND REPLACED ONTO LOCO.'.

**29.12.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HIGH NOTE HORN REPLACED A/C MISSING COMPLETELY.'.

**29.12.1993** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE STEP REWELDED A/C CRACKED THROUGH MOUNTS.'.

**26.01.1994** Service defect: 'TW - ELECTRICAL MISC. MODULES - DATA LOGGER INTER-CHANGED WITH EL53, A/C SPEEDO ERRATIC. FOR FURTHER INFO. SEE D. SLIEGHTHOLME.'.

**01.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE LEAKS REPAIRED AND HOSES REPLACED.'.

**01.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER CLEANED, REPAIRED AND PAINTED.'.

**25.02.1994** Service defect: 'A - COOLING SYSTEM - BRACKETS ON MAIN COOLING PIPE TO RADIATOR REPAIRED, A/C BROKEN.'.

**25.02.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS - DATA LOGGER DOWN LOADED AND TIME RESET.'.

**25.02.1994** Service defect: 'A - EXHAUST - EXHAUST JOINTS WELDED UP, A/C CRACKED.'.

**25.02.1994** Service defect: 'A - FUEL SYSTEM PUMP - FUEL PUMPS ADJUSTED.'.

**25.02.1994** Service defect: 'A - RADIO REPAIR - RADIO POWER SUPPLY CIRCUIT BREAKER RESET, CHECKED OK.'.

**25.02.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES CHANGED, A/C SHORT.'.

**03.03.1994** Service defect: 'UN - EXHAUST - EXHAUST FLANGE WELDED AND GASKETS REPLACED. LOAD TESTED OK. 2250KW.'.

**20.05.1994** Service defect: 'C - FUEL SYSTEM PUMP - L5 FUEL PUMP CAM ROLLER AND CROSSHEAD REPLACED, A/C WORN. FUEL PUMP TIMING LOCK NUTS REPLACED ON 1,2,& 4 RHS, 5LHS.'.

**20.05.1994** Service defect: 'C - GENERAL - SIDE DOOR WINDOW OBS/SIDE REPLACED.'.

### EL 63

Details: locomotive 'EL 63 M' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 03.09.1991
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 09.04.1997 | | |
| Last Lift: | 27.05.1995 | | |
| SW Service Mileage: | 1037953 KM | SW Service Date: | 28.10.1995 |
| A Service Mileage: | 1167214 KM | A Service Date: | 09.04.1997 |
| B Service Mileage: | 1043257 KM | B Service Date: | 08.12.1995 |
| C Service Mileage: | 722168 KM | C Service Date: | 08.06.1994 |
| D Service Mileage: | 504864 KM | D Service Date: | 16.07.1993 |
| F Service Mileage: | 957434 KM | A Service Date: | 27.05.1995 |
| WT Service Mileage: | 271502 KM | WT Service Date: | 02.09.1992 |
| US Service Mileage: | 1156858 KM | A Service Date: | 27.02.1997 |

**04.09.1991** Service defect: 'UN - FUEL SYSTEM - FUEL FILLER OBS SIDE REPAIRED.'.

**20.09.1991** Service defect: 'UN - ELECTRICAL MISC. MODULES - RAD FAN PANEL REPLACED, A/C SHORT ON INPUT CAUSING LOSS OF AUXILLARY SYSTEMS.'.

**02.10.1991** Service defect: 'SW - OTHER BODY REPAIRS - BOTH STEPS CRACKED,REPAIRED.'.

**02.10.1991** Service defect: 'SW - NOSE SUSPENSION PINS WEARING.'.

**29.11.1991** Service defect: 'TS - ENGINE WATER LEAK - COPPER WATER PIPE BETWEEN HEADER TANK & ENGINE REPAIRED,A/C BROKEN.'.

**05.03.1992** Service defect: 'B - GENERAL - TOILET DRAIN VALVE MODS COMPLETED OK.'.

**05.03.1992** Service defect: 'B - OTHER BODY REPAIRS - STEPS REPLACED OK.'.

**19.03.1992** Service defect: 'SW - BOGIE - BOGIES ROTATED.'.

**25.08.1992** Service defect: 'C - FUEL SYSTEM - FUEL CUT-OFF REPLACED. A/C OLD ONE U/S.'.

**25.08.1992** Service defect: 'C - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.

**25.08.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER CHANGED.'.

**25.08.1992** Service defect: 'C - OTHER BODY REPAIRS - TOILET DOOR LATCH REPLACED. ARM RESTS REMOVED. ENGINE ROOM HATCH LATCH REPLACED A/C MISSING.'.

**12.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WIPER MOTOR REPLACED.'.

**13.11.1992** Service defect: 'A - GENERAL - WIPER MOTOR REPLACED OBS/SIDE.'.

**19.12.1992** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED, A/C FLANGE READINGS. WEAR PADS SHIFTED FROM BOGIES FOR CORRECT HEIGHT CLEARANCE.'.

**19.12.1992** Service defect: 'UN - BOGIE - WHEEL WEAR RECORDED.'.

**19.12.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES REPLACED, A/C VERY LOW.'.

**31.12.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR CHANGE COMPLETED. RAD HATCH GOUGED & REWELDED AROUND FLOOR.'.

**31.12.1992** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK FROM RAD HEADER TANK WELDED,A/C POROUS WELD. LOCOLOAD TESTED OK.'.

**18.01.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - A RESISTER IN THE G/RELAY DETECTION SYSTEM REPLACED.TESTED OK.'.

**18.01.1993** Service defect: 'TS - ELECTRICAL MISC. MODULES - GMD MODULE REPLACED.'.

**29.01.1993** Service defect: 'B - FUEL SYSTEM PUMP - FUEL PUMP REMOVED & PIECES OF RUBBER REMOVED,

A/C LOW FUEL PRESSURE (30PSI). FUEL PUMP TESTED OK.'.

**29.01.1993** Service defect: 'B - GENERAL - ARM RESTS FITTED TO SEATS. FRIDGE FILTER REPLACED & OPERATION OK.'.

**29.01.1993** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - LARGE HORN REPAIRED, FITTED & TESTED OK.'.

**03.02.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN PANEL CHANGED,A/C SHORT CIRCUIT BETWEEN PHASES.FAN SPEEDS CHECKED OK. LOAD TEST OK.'.

**21.02.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB COMPUTER CHANGED, A/C 482E FAULT STILL OCCURED AFTER SWAPPING RFD PANEL WITH EL 60.'.

**21.02.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FFAN WORKS OK ON SELF TEST IN ALL SPEEDS.'.

**03.03.1993** Service defect: 'TS - AIR CONDITIONING - AIR COND TESTED OK.'.

**03.03.1993** Service defect: 'TS - COOLING SYSTEM RADIATOR - RAD MOD & HATCH MOD COMPLETED.'.

**03.03.1993** Service defect: 'TS - OTHER BODY REPAIRS - CAB DOOR HINGES CHECKED OK. TOILET DOOR LATCH REPLACED.'.

**03.03.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - RFP PLUG REPAIRED, NEW PINS FITTED, FAN TESTED OK.'.

**07.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - TRIPLE VALVE CHANGED,A/C NO LOCO BRAKE ON AUTO APPLICATION. TRIPLE VALVE COCK OPENED TO CORRECT POSITION. LOCO TESTED OK'.

**20.04.1993** Service defect: 'A - AIR CONDITIONING - AIR CONDITIONING MODIFICATION COMPLETED.'.

**20.04.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - O/S REAR HANDBRAKE CUT OUT COCK REPAIRED.'.

**20.04.1993** Service defect: 'A - OTHER BODY REPAIRS - TOILET DOOR LATCH REPAIRED.'.

**23.06.1993** Service defect: 'UN - ENGINE - ENGINE RETORQUE COMPLETED. CHECKED OK.'.

**03.07.1993** Service defect: 'UN - AIR CONDITIONING - AIR CON. WIRE REPLACED A/C HOT JOINT.'.

**03.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE LEAK REPAIRED.'.

**16.07.1993** Service defect: 'D - CONTACTOR MISCELLANEOUS - CHANGED CONTACTS ON XFCSD62 CONTACTOR.'.

**16.07.1993** Service defect: 'D - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE CHANGED.'.

**16.07.1993** Service defect: 'D - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES CHANGED.'.

**26.07.1993** Service defect: 'UN - EXHAUST - EXHAUST REPAIRS COMPLETED.'.

**26.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR DRYER UNIT REPLACED, A/C U/S.'.

**26.07.1993** Service defect: 'UN - W/MOTOR KNURL REQ'D, A/C NIL STOCK. A/CON CIRCUIT'.

**26.07.1993** Service defect: 'UN - BREAKER U/S, NIL STOCK.26/7.'.

**29.09.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - COUPLER LIGHT REPAIRED.'.

**29.09.1993** Service defect: 'A - L4 CAMSHAFT TO MONITOR.29/9.'.

**21.10.1993** Service defect: 'UN - RAD FAN TO MONITOR, A/C CRACKS.'.

**26.10.1993** Service defect: 'UN - GENERAL - AIR FRIDGE DRAIN WELDED.'.

**22.11.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED.'.

**27.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - B.P. M.R. C.P. + I.R. PIPE REPAIRS COMPLETED TO 'A'END OBS/ SIDE, A/C DAMAGED.'.

**27.11.1993** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER SUPPORT STRUT BOLTS REPLACED.'.

**10.12.1993** Service defect: 'B - AIR CONDITIONING - AIR CON. CIRCUIT BREAKER CHANGED PREVIOUSLY.'.

**10.12.1993** Service defect: 'B - DYNAMIC BRAKE - DYN. BRAKE SURGES BETWEEN 30 AND 40KPH. SOFT WARE PROBLEM.'.

**10.12.1993** Service defect: 'B - ENGINE - L4 CAM LOBE HAS A NICK ON IT- TO MONITOR.'.

**10.12.1993** Service defect: 'B - LUBRICATING SYSTEM - LUBRICATING OIL CHANGED.'.

**10.12.1993** Service defect: 'B - OTHER BODY REPAIRS - OBS. SIDE DOOR REPAIRED A/C HARD TO CLOSE.'.

**10.12.1993** Service defect: 'B - RADIATOR/PRESSURISING FAN - RADIATOR FAN CHECKED FOR CRACKS. CHECKED OK.'.

**10.12.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - COMPLETE BRUSH CHANGE DONE.'.

**09.02.1994** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO 2 AND 4 WHEELSETS ROTATED. SPEEDO DRIVE REPAIRED.'.

**09.02.1994** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - C.A.B PANEL REPLACED, A/C MANUAL POWER NOT WORKING. MANUAL POWER CHECKED AND NOW WORKING. CAB IN-016L0011.OUT-037L0018.'.

**09.02.1994** Service defect: 'SW - OTHER BODY REPAIRS - OBS/SIDE MIRROR REPLACED, A/C CRACKED.'.

**01.03.1994** Service defect: 'A - GENERAL - WINDSCREEN WIPER KNURL CHECKED OK, WATER HOSE AND NOZZLE REPLACED.'.

**01.03.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DISCHARGE PIPE REPAIRED, A/C CRACKED.'.

**22.04.1994** Service defect: 'SW - BOGIE - BOGIE ROTATION COMPLETED.'.

**22.04.1994** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - L3 SANDER BRACKET REPLACED.'.

**26.04.1994** Service defect: 'UN - SPEEDO DRIVE AND PLATE TO REPAIR - AWAITING'.

**26.04.1994** Service defect: 'UN - MANUFACTURE - LOCO TO TRIAL.26/4.'.

**03.05.1994** Service defect: 'UN - GENERAL - DRIVERS CAB MODS COMPLETED. RADIO MODS COMPLETED.'.

**13.05.1994** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR REPAIRS COMPLETED, A/C OVERCHARGING.'.

**13.05.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER LEAK ON 'A'END BOGIE REPAIRED. PARK BRAKE LEAK REPAIRED.'.

**13.05.1994** Service defect: 'TS - VIGILANCE - VIG BRACKET REPAIRED/REPAINTED.'.
**13.05.1994** Service defect: 'TS - DRIVER ONLY MODS TO COMPLETE.13/5..'.
**17.05.1994** Service defect: 'SW - GENERAL - REFIT MODS FOR DRIVER ONLY APPLICATION.'.
**17.05.1994** Service defect: 'SW - OTHER BODY REPAIRS - WINDSCREEN WASHER REPAIRS COMPLETED.'.
**20.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE WINDOW AND MIRROR REPLACED, A/C CRACKED.'.
**26.05.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE RELEASE VALVE CHANGED.'.
**26.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - WINDSCREEN WIPER BLADES REPLACED.'.
**08.06.1994** Service defect: 'C - ENGINE - AIR DRYER REPLACED.'.
**08.06.1994** Service defect: 'C - FUEL PUMP MOTOR - FUEL PUMP MOTOR BRUSHES REPLACED, A/C SHORT.'.
**08.06.1994** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - LARGE BARREL UNION ON COMPRESSOR AFTERCOOLER REPAIRED, A/C LEAKING. PLUG FITTED TO COMPRESSOR OIL DRAIN.'.
**08.06.1994** Service defect: 'C - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE PLATE WELDED, A/C CRACKED.'.
**08.06.1994** Service defect: 'C - OTHER BODY REPAIRS - D/S WINDOW REPAIRED.'.
**29.06.1994** Service defect: 'SW - BOGIE - BOGIES EXCHANGED, DIRECTION TESTED OK.'.
**29.06.1994** Service defect: 'SW - DYNAMIC BRAKE - DYN/BRAKE OPERATION CHECKED OK.'.
**29.06.1994** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHECK OK.'.

**EL 64**

Details: locomotive 'EL 64 V' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 19.6m
**Tare Weight:** 112.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 11.10.1991
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 2430kw
**BSG Code:** LSAE

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 01.04.1997 | | |
| Last Lift: | 28.06.1995 | | |
| SW Service Mileage: | 1363536 KM | SW Service Date: | 13.02.1997 |
| A Service Mileage: | 1311425 KM | A Service Date: | 25.10.1996 |
| B Service Mileage: | 1069960 KM | B Service Date: | 13.01.1996 |
| C Service Mileage: | 1229528 KM | C Service Date: | 20.07.1996 |
| D Service Mileage: | 468977 KM | D Service Date: | 12.08.1993 |
| F Service Mileage: | 901905 KM | A Service Date: | 28.06.1995 |
| WT Service Mileage: | 656733 KM | WT Service Date: | 27.05.1994 |
| US Service Mileage: | 1395887 KM | A Service Date: | 01.04.1997 |

**11.10.1991** Service defect: 'SW - GENERAL - CAB INSPECTION COMPLETED,AFULE PASSED.'.
**03.12.1991** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BRAKE FAILURE - WASHER REMOVED FROM DB3 CONTACTOR. (FAILED TRN.NO 2347) - (WASHER JAMMING OPERATION)'.
**07.01.1992** Service defect: 'A - BOGIE - NOSE SUSPENSION PINS REPLACED.'.
**07.01.1992** Service defect: 'A - ''.
**17.01.1992** Service defect: 'TS - TRACTION MOTOR LOOSE PINION - NO 4 T/MOTOR REPLACED,A/C SLIPPED PINION.IN- 8911026.OUT- E91010110.'.
**01.04.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE BARREL UNION REPLACED.'.
**07.05.1992** Service defect: 'UN - BODY REPAIRS - ACCIDENT - COW CATCHER AND PIPES ETC.REPAIRED OR REPLACED.'.
**12.06.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS REPLACED & CHECKED FOR LEAKS.LOAD TESTED OK,WELDS CHECKED OK.'.
**18.06.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - MANUAL POWER RHEOSTAT REPLACED.'.
**18.06.1992** Service defect: 'A - GENERAL - FUEL TANK CUT OFF FLOAT REPLACED,A/C U/S.'.
**11.09.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - EXC PANEL REPLACED,A/C SANDER PROBLEM ON FOWARD SANDERS. SANDERS TESTED OK.'.
**17.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - D/SIDE QUARTER WINDOW REPLACED A/C HIT BY BOTTLE AT SALSBURYSTATION.'.
**22.09.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - POWER SUPPLY TO COMPUTER REPLACED. LOW LOAD TESTED OK, CONTACTOR TEST OK.'.
**29.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DATA LOGGER U/S - CASSETTE CHANGED.'.
**29.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HAND BRAKE LEAKING ON IN M/U CONSIST - DEAD ENGINE DEVICE SET INCORRECTLY, VIG RUN THROUGH & CHECKED OK.'.
**01.12.1992** Service defect: 'A - BOGIE - BOGIE ROTATION COMPLETED. LOCO MOVEMENT TESTED OK.'.
**01.12.1992** Service defect: 'A - COOLING SYSTEM - FLEXIBLE WATER PIPE REPLACED & BRACKETS WELDED TO BODY FOR SUPPORT.'.
**01.12.1992** Service defect: 'A - FUEL SYSTEM - FUEL TANK FLOAT FITTED TO TANK.'.
**01.12.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO OK.'.
**04.01.1993** Service defect: 'UN - GENERAL - COPPER PIPE AT REAR OF TAP ON FRIDGE REPAIRED, A/C CRACKED.'.

**18.02.1993** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER REPAIRS COMPLETED.'.
**23.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDER HOSE D/S REPLACED'.
**23.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - HOSES ON FRONT OF LOCO REPLACED'.
**23.02.1993** Service defect: 'B - OTHER BODY REPAIRS - BOTH MIRRORS REPLACED,W/SCREEN WASHER REPAIRED,WINDOW HANDLEREPAIRED.'.
**23.02.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL TRACTION MOTOR BRUSHES REPLACED.'.
**01.03.1993** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK ON TURBO REPAIRED.'.
**01.03.1993** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL REPLACED.'.
**01.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - D/SIDE DOOR HANDLE REPAIRED.'.
**06.04.1993** Service defect: 'SW - AIR CONDITIONING - AIR/COND MOD COMPLETED.'.
**15.04.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BRUSHES REPLACED IN NO 1 T/MOTOR,A/C FLASH OVER.'.
**13.05.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END KNUCKLE REPLACED.'.
**13.05.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BOTH 'A'END B/PIPE COCKS REPAIRED,A/C LEAKING.'.
**18.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NO 6 D/S BRAKE HANGER REPAIRED,A/C SEIZED. BRAKES ADJUSTED & BRAKE TEST CHECKED OK.'.
**18.06.1993** Service defect: 'UN - MAIN RES AUTO DRAIN TO REPLACE.16/6.'.
**28.07.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - BRUSH HOLDERS REPLACED IN NO 1 TOP T/M AND NO 2 TOP T/M. ALLBRUSHES CHANGED, A/C GR'S.'.
**12.08.1993** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE WORK ON BRAKE RACK CORRECTED.'.
**12.08.1993** Service defect: 'D - TRACTION MOTOR - NO 1 T/MOTOR REPLACED, A/C COMM DAMAGE DUE TO SHORT BRUSHES.'.
**12.08.1993** Service defect: 'D - VIGILANCE - VIGILANCE REPAIRED.'.
**17.09.1993** Service defect: 'UN - GENERAL - OBS/SIDE BLIND ASSY COMPLETED.'.
**17.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - DR/SIDE WINDOW (SLIDING) REPLACED. D/S WINDOW LATCH RE-STUCKTO WINDOW WITH DOUBLE SIDED TAPE.'.
**17.09.1993** Service defect: 'UN - VIGILANCE - VIGILANCE SOLENOID VALVE CHECKED OK, A/C LEAKING.'.
**28.09.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - CRACK TEST COMPLETED OK.'.
**28.09.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE TEST OK.'.
**28.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST OK.'.
**05.11.1993** Service defect: 'A - OTHER BODY REPAIRS - ENGINE ROOM HATCH WINDOW REPLACED.'.
**05.11.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED.'.
**05.11.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED. FAN TESTED OK. LOCO LOAD TESTED OK.'.
**02.12.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - ALL T/MOTOR BRUSHES REPLACED.'.
**02.12.1993** Service defect: 'TW - TRACTION MOTOR FLASHOVER - NO 6 T/M FLASHED, CLEANED, CHANGED BRUSHES & REMOVED 'DAG' FROM BRUSH HOLDER.'.
**22.12.1993** Service defect: 'SW - GENERAL - CONTROLLER SPRING REPLACED.'.
**27.12.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - NO.6 T/M FLASHED. 2BRUSHES CHANGED. CLEANED BETWEEN RISERAND COMM. NO.6 T/M TO MONITOR.'.
**12.01.1994** Service defect: 'SW - BOGIE - NO.3 WHEEL SET AND TRACTION MOTOR CHANGED, A/C FLANGES. TRACTION MOTOR AND W/SET CAME AS COMPLETE UNIT FROM ISLING.'.
**20.01.1994** Service defect: 'B - DYNAMIC BRAKE - B/BRAKE FAN MOTOR BRUSHES CHANGED.'.
**20.01.1994** Service defect: 'B - ENGINE WATER LEAK - G.F. ABOVE WATER PUMP TIGHTENED, A/C LEAKING.'.
**20.01.1994** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - LOW NOTE HORN REPLACED.'.
**28.01.1994** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS SIDE WINDOW REPLACED, A/C CRACKED.'.
**01.02.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE VALVE CHANGED. AUTO BRAKES CHECKED OK, A/C AIR BRAKE FAULT.'.
**04.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE COCK REPAIRED. HOSES REPAIRED.'.
**04.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - COWCATCHER REPAIRS COMPLETED.'.
**07.04.1994** Service defect: 'A - GENERAL - DECANT KNOB ON TOILET REPLACED. D/S WIPER ARM REPAIRED.'.
**07.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV ADJUSTED, A/C M.R. PRESSURE ONLY 820 KPA.'.
**07.04.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - R6 SANDER REPAIRS COMPLETED.'.
**07.04.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - D/S TRAIN PIPE HOSE SEAL REPLACED.'.

## 2.20 Locomotive classification starting with 'F'

**F 251**

Details: locomotive 'F 251 A' in AN 'Mainland Division'.

**Owner:** A.R.H.S.
**Operator:** D
**Length Over Headstocks:** 11.6m
**Tare Weight:** 60tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** 4-6-2
**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1920
**Operating System:** ARHS
**Intended Use:** MAINLINE
**Installed Power:** 100kw
**Remarks:** A.R.H.S. STEAM LOCO.
**BSG Code:** LBSO

## 2.21 Locomotive classification starting with 'G'

**G 511**

Details: locomotive 'G 511 N' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.09.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** FITTED WITH TRACTION EQUIPMENT
**BSG Code:** LBVO

| | |
|---|---|
| Fleet Grp Code: | AH |
| Return to Service Date: | 03.02.1989 |

**G 512**

Details: locomotive 'G 512 W' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.09.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** FITTED WITH TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 10.01.1989 | | |
| US Service Mileage: | 298630 KM | A Service Date: | 10.01.1989 |

**G 513**

Details: locomotive 'G 513 X' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.09.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** FITTED WITH TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 13.07.1989 | | |
| US Service Mileage: | 444065 KM | A Service Date: | 13.07.1989 |

**13.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - 1 MAIN RES SAFETY VALVE REPLACED.'.

**G 514**

Details: locomotive 'G 514 R' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.09.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** FITTED WITH TRACTION EQUIPMENT
**BSG Code:** LBVO

| | |
|---|---|
| Fleet Grp Code: | AH |
| Return to Service Date: | 26.06.1988 |

**G 515**

Details: locomotive 'G 515 D' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.09.1984

**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** FITTED WITH TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 09.05.1990 | | |
| US Service Mileage: | 566117 KM | A Service Date: | 09.05.1990 |

**26.11.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - BOOKED FOR 8 G/RELAYS.24 BRUSHES CHANGED IN NO 2&5 T/M'S A/CCRACKED & BROKEN.'.
**09.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - NO2 END DRAW GEAR CHECKED OK.'.

**G 516**

Details: locomotive 'G 516 M' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.09.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

**G 517**

Details: locomotive 'G 517 V' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1983
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

**G 518**

Details: locomotive 'G 518 H' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.07.1983
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LSVO

| | |
|---|---|
| Fleet Grp Code: | AH |
| Return to Service Date: | 21.10.1996 |

**G 519**

Details: locomotive 'G 519 Q' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.07.1983
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LSVO

**G 520**

Details: locomotive 'G 520 M' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.07.1983
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LSVO

**G 521**

Details: locomotive 'G 521 V' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

**G 522**

Details: locomotive 'G 522 H' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

**G 523**

Details: locomotive 'G 523 Q' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

**G 524**

Details: locomotive 'G 524 C' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 12.10.1988 | | |
| US Service Mileage: | 260496 KM | A Service Date: | 12.10.1988 |

**G 525**

Details: locomotive 'G 525 L' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 18.03.1989 | | |
| US Service Mileage: | 242319 KM | A Service Date: | 16.11.1988 |

**G 526**

Details: locomotive 'G 526 U' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 09.12.1988 | | |
| US Service Mileage: | 72434 KM | A Service Date: | 09.12.1988 |

**G 527**

Details: locomotive 'G 527 G' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 06.07.1988 | | |
| US Service Mileage: | 16764 KM | A Service Date: | 06.07.1988 |

**G 528**

Details: locomotive 'G 528 P' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 03.05.1989 | | |
| US Service Mileage: | 166464 KM | A Service Date: | 03.05.1989 |

**G 529**

Details: locomotive 'G 529 B' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1984
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 08.04.1990 | | |
| US Service Mileage: | 201779 KM | A Service Date: | 08.04.1990 |

**09.07.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - CRACKED BRUSHES NO 4 TM ISOLATED A/C NIL STK FLATS NO2 GRID BLOWER MTR'.
**08.04.1990** Service defect: 'UN - NO POWER FAULT TO CORRECT BY V LINE'.

**G 530**

Details: locomotive 'G 530 U' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1988
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 10.01.1989 | | |
| US Service Mileage: | 56518 KM | A Service Date: | 10.01.1989 |

**G 531**

Details: locomotive 'G 531 G' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 22.08.1988
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 03.04.1989 | | |
| US Service Mileage: | 75295 KM | A Service Date: | 03.04.1989 |

**G 532**

Details: locomotive 'G 532 P' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 24.07.1990 | | |
| US Service Mileage: | 211055 KM | A Service Date: | 24.07.1990 |

**22.12.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY,CHECKED OK IN DEPOT.'.
**24.07.1990** Service defect: 'UN - BOGIE - BOGIE BOOKED NOISY.CHECKED,V/LINE ADVISED.'.

**G 533**

Details: locomotive 'G 533 B' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 29.06.1989 | | |
| US Service Mileage: | 80953 KM | A Service Date: | 29.06.1989 |

**G 534**

Details: locomotive 'G 534 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 04.05.1990 | | |
| US Service Mileage: | 119704 KM | A Service Date: | 04.05.1990 |

**31.07.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED HARSH ON INITIATION.GRIDS CHECKED OK.RETURN- ED TO V/LINE FOR D/BRAKE SET UP.'.
**04.05.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED ONLY PULLING 400 AMPS.CHECKED IN DEPOT, RETURNED TO V/LINE FOR TESTING.'.

**G 535**

Details: locomotive 'G 535 T' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 29.03.1990 | | |
| US Service Mileage: | 124445 KM | A Service Date: | 29.03.1990 |

**12.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GRID OPEN CIRCUIT LIGHT BOOKED ON.CHECKED,NOT ON IN DEPOT.'.
**29.03.1990** Service defect: 'UN - DYNAMIC BRAKE - BOOKED FOR GR GRID OPEN CIRCUIT LIGHT.CHECKED NO FAULT FOUND'.

**G 536**

Details: locomotive 'G 536 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1989

**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

**G 537**

Details: locomotive 'G 537 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1989
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 02.08.1989 | | |
| US Service Mileage: | 20141 KM | A Service Date: | 02.08.1989 |

**02.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - FRACTURED WATER PIPE ON COMPRESSOR REPAIRED.'.

**G 538**

Details: locomotive 'G 538 A' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1989
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 17.08.1989 | | |
| US Service Mileage: | 19762 KM | A Service Date: | 06.08.1989 |

**17.08.1989** Service defect: 'TS - COOLING SYSTEM - WATER PIPE TO COMPRESSOR REPAIRED.'.

**G 539**

Details: locomotive 'G 539 J' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1989
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | |
|---|---|
| Return to Service Date: | 13.07.1989 |

**G 540**

Details: locomotive 'G 540 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1989
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 31.03.1990 | | |
| US Service Mileage: | 64511 KM | A Service Date: | 31.03.1990 |

**G 541**

Details: locomotive 'G 541 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1989
**Operating System:** V/LINE

**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

**G 542**

Details: locomotive 'G 542 A' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1988
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

| | |
|---|---|
| Return to Service Date: | 10.01.1989 |

**G 543**

Details: locomotive 'G 543 J' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 18.9m
**Tare Weight:** 127tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1989
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 2240kw
**Remarks:** SUPER SERIES TRACTION EQUIPMENT
**BSG Code:** LBVO

## 2.22 Locomotive classification starting with 'GM'

**GM 1**

Details: locomotive 'GM 1 T' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 108tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** A1A-A1A
**Original Cost:** $234590
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 3
**Date Built:** 20.09.1951
**Operating System:** ON LOAN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**Remarks:** 'ROBERT GORDON MENZIES'CITY OF P.AUGUSTA
**BSG Code:** LSSO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 26.08.1980 | | |
| SW Service Mileage: | 176365 KM | SW Service Date: | 23.09.1988 |
| A Service Mileage: | 231372 KM | A Service Date: | 16.03.1989 |
| B Service Mileage: | 236074 KM | B Service Date: | 21.06.1989 |
| C Service Mileage: | 113130 KM | C Service Date: | 05.07.1988 |
| D Service Mileage: | 228821 KM | D Service Date: | 31.01.1989 |
| E Service Mileage: | 957944 KM | A Service Date: | 27.11.1987 |
| F Service Mileage: | 500580 KM | A Service Date: | 26.08.1980 |
| WT Service Mileage: | 132308 KM | WT Service Date: | 02.08.1988 |
| US Service Mileage: | 236756 KM | A Service Date: | 28.06.1989 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**GM 2**

Details: locomotive 'GM 2 F' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 108tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** A1A-A1A
**Original Cost:** $234590
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 3
**Date Built:** 17.11.1951
**Operating System:** ON LOAN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**Remarks:** W/O 31.03.90;ON LOAN PDSM
**BSG Code:** LSSO

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 03.10.1990 | | |
| Last Lift: | 31.10.1984 | | |
| SW Service Mileage: | 730330 KM | SW Service Date: | 03.10.1990 |
| A Service Mileage: | 729367 KM | A Service Date: | 05.03.1990 |
| B Service Mileage: | 690477 KM | B Service Date: | 10.01.1990 |
| C Service Mileage: | 481945 KM | C Service Date: | 28.03.1989 |
| D Service Mileage: | 364448 KM | D Service Date: | 22.07.1988 |
| E Service Mileage: | 627954 KM | A Service Date: | 20.10.1989 |
| F Service Mileage: | 482555 KM | A Service Date: | 31.10.1984 |
| WT Service Mileage: | 628271 KM | WT Service Date: | 24.10.1989 |
| US Service Mileage: | 722828 KM | A Service Date: | 21.02.1990 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**01.07.1989** Service defect: 'TS - BATTERY MAINTENANCE - NO CHARGE IN BATTERIES - R.C.R.WIRING REPAIRED.'.
**19.07.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - FLASH ON MAIN GEN CLEANED.MAIN GEN HAS SHORT BRUSHES.'.
**23.07.1989** Service defect: 'UN - NO FAULT FOUND - BRUSH INSPECTION - T/MOTOR & M/GENERATOR BRUSHES CHECKED OK.'.
**31.07.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN AIR COCK - TRAIN PIPE COCK REPLACED BY MEDFITTERS A/C BROKEN. SUSPECTED CAUSE ???.'.
**16.08.1989** Service defect: 'UN - GENERAL ACCIDENT - LOCO EXAMINED,CHECKED OK A/C LEVEL CROSSING ACCIDENT.'.
**25.08.1989** Service defect: 'TS - ENGINE - NO 3.POWER ASSEMBLY REPLACED A/C DAMAGED PISTON.NO 3.CARRIERALSO REPLACED.'.
**05.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BLOWING ON DEVILBUS-REPLACED STRIPPED SCREWS & CHECKED OK.'.
**20.09.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BOTTOM COVER ON NO.1 T/MOTOR REPLACED. - BALLAST REMOVED,MOTOR CLEANED/UP MEGG.OK'.
**05.10.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR HOLED - D/SIDE NO.4 RADIATOR REPLACED,TESTED OK.'.
**24.10.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.
**26.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - BOTH DRAW GEAR COUPLINGS REPLACED A/C CRACKED.'.
**11.12.1989** Service defect: 'TS - NO FAULT FOUND - G/RELAYS - M/GENERATOR & T/MOTORS CHECKED OK. - MEGGERED 1 MEG/OHMN,TESTED OK IN DEPOT.'.
**04.01.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.3 T/MOTOR CLEANED/UP.(OIL IN MOTOR) - SEVERAL BRUSHES REPLACED.(STUCK DOWN)'.
**04.01.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - SLIGHT FLASH/OVER - M/GENERATOR INSULATORS CLEANED/UP. - M/GEN MEGGERED TO 1 M/OHMN.'.
**10.01.1990** Service defect: 'B - WHEELS TO RUN OUT A/C THICKNESS & FLANGE CONDITION'.
**10.01.1990** Service defect: 'B - (10/1)'.
**21.02.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION -'.
**05.03.1990** Service defect: 'A - GENERAL - RETIRED LOCO - IN STORAGE PENDING DECISION.(A/C THIN WHEELS)'.

### GM 3

Details: locomotive 'GM 3 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 108tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** A1A-A1A
**Original Cost:** $234590
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 3
**Date Built:** 11.12.1951
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**Remarks:** W/O 31.03.90;STORED FOR CLYDE
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 15.11.1989 | | |
| Last Lift: | 21.07.1983 | | |
| SW Service Mileage: | 131535 KM | SW Service Date: | 05.01.1988 |
| A Service Mileage: | 194991 KM | A Service Date: | 15.11.1989 |
| B Service Mileage: | 176658 KM | B Service Date: | 10.11.1988 |
| C Service Mileage: | 189705 KM | C Service Date: | 09.08.1989 |
| D Service Mileage: | 97505 KM | D Service Date: | 14.10.1987 |
| E Service Mileage: | 781314 KM | A Service Date: | 23.04.1986 |
| F Service Mileage: | 307445 KM | A Service Date: | 21.07.1983 |
| WT Service Mileage: | 97508 KM | WT Service Date: | 16.10.1987 |
| US Service Mileage: | 187067 KM | A Service Date: | 20.06.1989 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**15.11.1989** Service defect: 'A - ENGINE - BASKET BOLTS RETORQUED.'.

### GM 4

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### GM 5

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### GM 6

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### GM 7

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**06.08.1989** Service defect: 'TW - BOGIE - HAND BRAKE CHAIN REPLACED A/C BROKEN ,REPLACED WITH GM -5 HAND BRAKE CHAIN.'.
**27.09.1989** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - FAULTY RELAY - FUEL/PUMP RELAY REPLACED.'.

**24.11.1989** Service defect: 'B - ENGINE - BASKET BOLTS - RE-TORQUED.'.
**02.02.1990** Service defect: 'UN - BOGIE - BOGIE CHANGE - BOGIES EX.GM3 INSTALLED.'.
**02.02.1990** Service defect: 'UN - ENGINE - LOAD/TEST - COMPLETED TO BURN/OUT EXCESS OIL BUILD/UP.'.
**21.01.1991** Service defect: 'UN - GENERAL ACCIDENT - LOCO TO BE STORED A/C - DAMAGED.'.
**21.01.1991** Service defect: 'UN - LOCO TO BE STORED A/C DAMAGED.'.

**GM 8**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**GM 9**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**GM 10**

Details: locomotive 'GM 10 S' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 108tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** A1A-A1A
**Original Cost:** $234590
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 3
**Date Built:** 03.06.1952
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**Remarks:** STORED PUG 20.01.94
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 14.06.1984 | | |
| SW Service Mileage: | 882903 KM | SW Service Date: | 22.10.1988 |
| A Service Mileage: | 1201859 KM | A Service Date: | 17.05.1990 |
| B Service Mileage: | 1175331 KM | B Service Date: | 03.04.1990 |
| C Service Mileage: | 1122659 KM | C Service Date: | 20.12.1989 |
| D Service Mileage: | 1017207 KM | D Service Date: | 04.07.1989 |
| E Service Mileage: | 722581 KM | A Service Date: | 11.02.1988 |
| F Service Mileage: | 137759 KM | A Service Date: | 14.06.1984 |
| WT Service Mileage: | 1117390 KM | WT Service Date: | 12.12.1989 |
| US Service Mileage: | 1228100 KM | A Service Date: | 04.05.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**04.07.1989** Service defect: 'D - ENGINE - SERVICE - ELECT/MECH.SERVICE COMPLETED.'.
**21.08.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - ENGINE SHUTDOWN - LOOSE WIRE CONNECTION ON VOLTAGE REGULATORREPAIRED ENROUTE BY TECHNICIAN.'.
**21.08.1989** Service defect: 'UN - NO FAULT FOUND - ENGINE SHUTDOWN - ENG CHECKED OK. ENGINE OIL IN TOP DECK OK.ENG OIL PRESS AT IDLE 75PSI.'.
**30.08.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION TESTED OK,TRIAL RUN OK.'.
**08.09.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - HIGH RESISTANT FOUND IN LRC INTERLOCK. SW INTERLOCK CLEANED A/C HIGH RESISTANT. TRANSITION TESTED OK.'.
**27.09.1989** Service defect: 'UN - NO FAULT FOUND - E.R.RELAY SUSPECT - E.R.RELAY OPERATION CHECKED,NOT FAULTED.'.
**23.10.1989** Service defect: 'A - BATTERY MAINTENANCE - 1 NO.BATTERY CHANGED.'.
**23.10.1989** Service defect: 'A - BOGIE - L3.STABILISER REPLACED A/C U/S'.
**03.11.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - D/S NO.3.RADIATOR REPLACED A/C LEAKING.'.
**08.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT DRAW GEAR REPLACED A/C CRACKED.'.
**08.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT AIR COCK REPLACED A/C HIT BULLOCK.'.
**08.11.1989** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE ROOM WINDOW REPLACED.'.
**25.11.1989** Service defect: 'UN - BOGIE - EXCESS TRAVEL - BRAKES TAKEN UP/A/HOLE.'.
**25.11.1989** Service defect: 'UN - FUEL SYSTEM - FUEL IN BY/PASS - FUEL FILTERS REPLACED.'.
**25.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FAULTY CYLINDER - L.6 BRK/CYLINDER REPAIRED.'.
**11.12.1989** Service defect: 'UN - TO BE PROFILED A/C NO.6 WHEEL/SET WELDED. (11/12)'.
**12.12.1989** Service defect: 'WT - BRAKE ADJUST MILE END'.
**17.12.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON WHEELS - NO FLATS VISIBLE.'.
**17.12.1989** Service defect: 'UN - NO FAULT FOUND - LOCO SHUT/DOWN - BATTS.CHECKED & CHARGE RATE CHECKED OK.'.
**14.01.1990** Service defect: 'UN - ENGINE GOVERNOR - LOW OIL BUTTON NOT HOLDING IN - ENG/GOVN.REPLACED. * GOVN.IN 265955,GOVN.OUT 230520 *'.
**31.01.1990** Service defect: 'UN - BATTERY MAINTENANCE - BOOKED FOR SHUTTING DOWN IN POWER.BATTERIES FLAT,JUMP STARTED.'.
**09.03.1990** Service defect: 'UN - BOGIE - DERAILMENT REPAIRS -'.
**22.03.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - HOOK/OUT,AIR CURED,PAINTED M/GENERATOR. - T/MOTORS CHECKED OK,5 MEG/OHMNS ON H.T.'.
**03.04.1990** Service defect: 'UN - BOGIE - BRAKE STRAPS -'.
**07.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END TRAIN PIPE STRAIGHTENED.'.
**10.05.1990** Service defect: 'UN - BATTERY MAINTENANCE -

BATTERIES SUSPECT - BATTERIES OK,CHARGE RATE CHECKED OK.'.

**10.05.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - WATER DRAIN PIPE REPAIRED.'.

**17.05.1990** Service defect: 'A - BOGIE - BRAKE STRAPS CRACK TESTED - L.5 OUTER STRAP REPLACED. - R.3 INNER STRAP REPLACED.'.

**12.06.1990** Service defect: 'TS - BOGIE - BROKEN STRAP - D/SIDE NO.1 INNER BRAKE STRAP REPLACED.'.

**26.06.1990** Service defect: 'UN - FUEL SYSTEM - FUEL IN BY/PASS - SPIN/ON FILTERS CHANGED.'.

**26.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - UNIT CHANGED/OUT.'.

**04.07.1990** Service defect: 'UN - BOGIE - NO.6 AXLE BOX U/S. LOCO STORED.'.

**04.07.1990** Service defect: 'UN - WHEELSLIP - WHEELSLIP.'.

### GM 11

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### GM 12

Details: locomotive 'GM 12 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $264980
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 28.10.1955
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 27.06.1984 | | |
| SW Service Mileage: | 877818 KM | SW Service Date: | 29.06.1990 |
| A Service Mileage: | 1048089 KM | A Service Date: | 20.05.1992 |
| B Service Mileage: | 1045919 KM | B Service Date: | 12.02.1992 |
| C Service Mileage: | 938542 KM | C Service Date: | 26.09.1990 |
| D Service Mileage: | 550669 KM | D Service Date: | 09.12.1988 |
| E Service Mileage: | 802176 KM | A Service Date: | 01.03.1990 |
| F Service Mileage: | 648536 KM | A Service Date: | 27.06.1984 |
| WT Service Mileage: | 1025024 KM | WT Service Date: | 12.03.1991 |
| US Service Mileage: | 1048100 KM | A Service Date: | 30.04.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**08.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - DEAD CELLS - 2 NO.STARTING BATTERIES REPLACED.'.

**08.07.1989** Service defect: 'UN - BOGIE - BRK/CYLINDER LEAK - NEW BUCKET FITTED IN R.4 BRK/CYLINDER.'.

**08.07.1989** Service defect: 'UN - EXHAUST - CRACKED STACK - STACK RE-WELDED & GASKETS REPLACED. - HATCH RECONNECTED.'.

**08.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - LOOSE STEP - O/SIDE STEP STRAIGHTENED & TIGHTENED.'.

**21.08.1989** Service defect: 'UN - STABLISERS TO REPLACE.'.

**06.09.1989** Service defect: 'UN - GENERAL ACCIDENT - STEP REPAIRED & AIR HOSES ON NOSE REPLACED A/C HIT BULLOCK.'.

**27.09.1989** Service defect: 'B - BOGIE - (FRONT 2 'B'BOGIE) SHOCKY BROKEN - STABILISER REPLACED.(BROKEN RUBBER RETAINER)'.

**27.09.1989** Service defect: 'B - BOGIE - SIDE/SLAP - NEW SET RESILIANT RUBBERS INSTALLED.(TEST) LOOSE RODS - 4 NO.CLEVIS RODS TIGHTENED.(FRONT 2 'A'BOGIE)'.

**01.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - SPEEDO DRIVE & CABLE REPLACED.'.

**01.11.1989** Service defect: 'A - BATTERY MAINTENANCE - 4.BATTERIES REPLACED A/C CONTINUOUS JUMP STARTING.'.

**01.11.1989** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - NEW RINGS INSTALLED ON COMPRESSOR,LINERS HONED OUT.'.

**08.11.1989** Service defect: 'UN - BOGIE - RESILIANT RUBBERS CHECKED OK.'.

**10.01.1990** Service defect: 'B - BATTERY MAINTENANCE - LOW BATTERY VOLTAGE - 4 NO. STARTING BATTS.INSTALLED. - BATTS.TAKEN FROM GM13.'.

**10.01.1990** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - LOCO SHUT/DOWN - PAXTON MITCHELL REPLACED,LOCO TESTED OK. UNABLE TO RE-START.'.

**18.01.1990** Service defect: 'UN - BROKEN VALVE - DROPPED VALVE - NO.12 HEAD/PISTON & LINER CHANGED.'.

**13.03.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - O/SIDE NO.1&2 RADIATOR FANS REPLACED. - WIRING REPAIRED.'.

**13.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - CEILING SHEETS - REPAIRED. BAFFLE PLATES - RENEWED.'.

**23.04.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - BOTH STRAPS REPLACED(L.3) ROUGH/RIDING - NEW SET OF RESILIANT RUBBERS FITTED A/C U/S.'.

**23.04.1990** Service defect: 'UN - BOGIE - THRUST PAD - R3 BRASS THRUST PAD REPLACED A/C WORN.'.

**23.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - D/S STEP REPAIRED. D/S CAB ARM REST REPAIRED.'.

**19.05.1990** Service defect: 'UN - BROKEN VALVE - DROPPED VALVE - NO.12 CYL/HEAD REPLACED.'.

**31.05.1990** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER,CHECKED IN DEPOT,NO FAULT FOUND.'.

**01.06.1990** Service defect: 'UN - FUEL SYSTEM LINES - LOW POWER - FUEL LEAK SUSPECTED AS FAULT. FUEL SUCTION PIPE RUBBED THROUGH BY FLOOR TO BE REPAIRED.'.

**01.06.1990** Service defect: 'UN - FUEL LEAK - FUEL SUCTION PIPE TO BE REPAIRED A/C'.

**01.06.1990** Service defect: 'UN - RUBBED THROUGH (31/5)'.

**04.06.1990** Service defect: 'SW - BROKEN PIPE - BROKEN PIPE - FUEL SUCTION PIPE REPLACED.'.

**09.06.1990** Service defect: 'TS - LUBRICATING SYSTEM LOW OIL PRESSURE - LOW OIL PRESSURE SHUT/DOWN - MICHIANA OIL FILTERS CHANGED.'.
**29.06.1990** Service defect: 'SW - LUBRICATING SYSTEM - OIL AND FILTER CHANGE A/C LAB REPORT.'.
**07.08.1990** Service defect: 'A - TO BE PROFILED A/C R.1 FLANGE (9). 7/8)'.
**17.09.1990** Service defect: 'UN - BATTERY MAINTENANCE - DEAD CELLS - 3 NO.STARTING BATTERIES REPLACED.(OUT 102-104)'.
**30.09.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - M/GEN.'V'RING CLEANED & PAINTED. - T/MOTORS CHECKED & MEGGERED.(1 MEG)'.
**14.10.1990** Service defect: 'UN - BOGIE - TEMP REPAIRS TO 'B'BOGIE SPREADER BAR.'.
**14.10.1990** Service defect: 'UN - L4.BRAKE SPREADER TEMPORY PIN FITTED.'.
**21.10.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN FLASHED A/C BLOWN BRUSHES,UNABLE TO REPAIR A/C NIL STOCKS.'.
**22.10.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - FLASH/OVER - M/GEN BRUSHED/OUT VEE-RING PAINTED. - MEGGERED 1 MEG.'.
**01.11.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIRS - O/SIDE WINDOW REPLACED.(SHATTERED) - BOTH MIRRORS REPLACED.'.
**05.11.1990** Service defect: 'UN - NO FAULT FOUND - TRANSITION FAULT - LOCO CHECKED IN DEPOT,NOT FAULTED.'.
**11.11.1990** Service defect: 'UN - DRIVER FAULT - NO AMPS - JUMPER/CABLE PLUGGED INTO DUMMY SOCKET. - (REMOVED & REPLACED IN CORRECT SOCKET,NO PROBLEMS)'.
**15.01.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - NO-16 POWER ASSEMBLY CHANGED'.
**29.01.1991** Service defect: 'UN - BATTERY MAINTENANCE - 4 BATTERIES REPLACED A/C DEAD CELLS.'.
**29.01.1991** Service defect: 'UN - LUBRICATING SYSTEM LOW OIL PRESSURE - ENGINE OIL & MITCH FILTERS CHANGED - OIL STRAINER FILTERS CLEANED, SEALS RENEWED.'.
**05.02.1991** Service defect: 'TS - BROKEN VALVE - DROPPED VALVE - NO.7 PISTON & CYL/HEAD CHANGED/OUT. - INJECTOR REPLACED A/C TIP BROKEN OFF.'.
**05.02.1991** Service defect: 'TS - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & ALL FILTERS CHANGED.'.
**08.02.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN BRACKET - D/SIDE MIRROR & BRACKET RE-FITTED.'.
**08.02.1991** Service defect: 'UN - RADIO REPAIR - RADIO FAULTY - REPAIRS COMPLETED.'.
**08.04.1991** Service defect: 'UN - BLOCKED FILTERS - BLOCKED FILTERS - MICHIANA FILTERS CHANGED.'.
**08.04.1991** Service defect: 'UN - BOGIE - BROKEN STRAP - R.4 INNER BRAKE STRAP REPLACED.'.
**08.04.1991** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - BAFFLE PLATES RE-LOCATED.'.
**12.02.1992** Service defect: 'B - ENGINE - SERVICE - COMPLETED & LOAD/TEST COMPLETED.'.
**30.04.1992** Service defect: 'UN - CONDEMNED BOGIES - TO BE USED AS SHUNT ENGINE ONLY'.
**20.05.1992** Service defect: 'A - NOT TO GO MAINLINE A/C BOGIES'.

**GM 13**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**05.07.1989** Service defect: 'SW - BATTERY MAINTENANCE - DEAD CELLS - 1NO.STARTING BATTERY REPLACED.'.
**25.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SKIDDED WHEEL - NO.1 WHEEL SET REPLACED.(EXCESS FLAT)'.
**25.07.1989** Service defect: 'UN - TRACTION MOTOR ARMATURE BEARING - BEARING FAILURE - NO.1 T/MOTOR REPLACED.(ARMATURE BEARING)'.
**12.08.1989** Service defect: 'UN - TRANSITION FAULT TO CHECK AT PORT AUGUSTA'.
**14.08.1989** Service defect: 'UN - ENGINE WATER LEAK - HOLED RADIATOR - D/S NO3 RADIATOR REPLACED A/C LEAKING WATER'.
**15.08.1989** Service defect: 'A - ELECTRICAL MISC. TRANSITION - NO TRANSITION - DIRTY INTERLOCK ON S23 CLEANED UP. MG TESTEDOK.'.
**18.09.1989** Service defect: 'C - BOGIE - BOLT MISSING - SUPPORT BEARING CAP BOLT REPLACED.(R.6 TOP) BEARING. - SUPPORT BEARING CHECKED OK.'.
**18.09.1989** Service defect: 'C - BOGIE - BROKEN STRAP - R.6 INNER BRAKE STRAP REPLACED.'.
**18.09.1989** Service defect: 'C - ENGINE CYLINDER HEADS - PLUG LEAK - NO.9 CYL/HEAD REPLACED.'.
**19.10.1989** Service defect: 'UN - ENGINE - EXCESS OIL LEAK - TOP DECK COVERS 5-8 & 13-16 REPLACED. - (BENT COVER & PERISHED SEALS)'.
**23.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END MAIN RES COCK REPLACED A/C LEAKING.'.
**30.10.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - TRACTION MOTORS OK,MAIN GENERATOR FLASHOVER.COMM BRUSHED OUTOK,CLEANED AND PAINTED.MEGGERED .5 M/OHMS.'.
**01.11.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR G/RELAYS.TM'S & MAIN GEN CHECKED,NO FAULT FOUND.'.
**20.11.1989** Service defect: 'TS - MECHANICAL EQUIPMENT - FIRE DAMAGE - BOTH BLOWERS REPLACED A/C BURNT FILTERS FALLENINTO BLOWERS.'.
**08.12.1989** Service defect: 'UN - MAIN GENERATOR FLASHOVER - 2 PIGTAILS TRIMMED IN MAIN GEN A/C BRUSHES FRAYED.NO SPARES.'.
**13.12.1989** Service defect: 'B - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - M/GENERATOR CLEANED/UP A/C FLASHED.'.
**13.12.1989** Service defect: 'B - OVERHEATING - HOT ENGINE REPORT - FANS & THERMOSTATS CHECKED OK.'.
**18.12.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.
**22.12.1989** Service defect: 'UN - ENGINE - BLOWN TEST/COCKS - N0.7&10 TEST/COCK ASSYS.REPLACED.'.
**22.12.1989** Service defect: 'UN - OTHER BODY REPAIRS - SHATTERED WINDOW - REAR DOOR WINDOW REPLACED.'.

**08.01.1990** Service defect: 'UN - ENGINE - LOCO BEING STORED A/C AWAITING RETIRMENT DECISION AND LOCO HAS DONE 1.7MILLION KM'S SINCE LAST O/HAUL.'.

**08.01.1990** Service defect: 'UN - OVERHEATING - HOT ENGINES - OIL COOLER AND RADIATORS REQUIRE CHANGEOUT.'.

**GM 14**

Details: locomotive 'GM 14 X' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $264980
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 10.04.1956
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED PUG 20.01.94
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 20.10.1982 | | |
| SW Service Mileage: | 818258 KM | SW Service Date: | 11.02.1990 |
| A Service Mileage: | 937270 KM | A Service Date: | 20.08.1990 |
| B Service Mileage: | 978309 KM | B Service Date: | 23.10.1990 |
| C Service Mileage: | 839779 KM | C Service Date: | 16.03.1990 |
| D Service Mileage: | 723420 KM | D Service Date: | 04.10.1989 |
| E Service Mileage: | 472511 KM | A Service Date: | 28.09.1988 |
| F Service Mileage: | 399358 KM | A Service Date: | 20.10.1982 |
| WT Service Mileage: | 947727 KM | WT Service Date: | 03.09.1990 |
| US Service Mileage: | 979816 KM | A Service Date: | 17.10.1990 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**07.07.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOSING POWER IN NOTCH 4.CHECKED OK.'.

**29.07.1989** Service defect: 'A - ENGINE WATER LEAK - USING COOLING WATER - NO.7 JUMPERR/LINE & GASKET REPLACED. (PRESSURE TESTED)'.

**14.08.1989** Service defect: 'SW - LUBRICATING SYSTEM - HIGH VISCOSITY - ENGINE OIL AND OIL FILTERS CHANGED.'.

**30.08.1989** Service defect: 'B - CONTACTOR MISCELLANEOUS - RCR CONTACT TIPS CLEANED A/C DIRTY. O/S WINDOW REPLACED A/C BROKEN.'.

**05.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - VIGILANCE CHECKED OK,A/C AIR BLOWING IN VIG BOX.'.

**13.09.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN PIPE - NIPPLE REPLACED BEHIND PEDISTAL & COPPER PIPE - REPLACED TO BRK/PIPE GAUGE.'.

**08.11.1989** Service defect: 'UN - OTHER BODY REPAIRS - O/SIDE WINDOW REPAIRED .'.

**10.11.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.

**07.12.1989** Service defect: 'UN - CAB ROOF LINING TO REPAIR.'.

**22.12.1989** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - REPAIRED & OPERATION CHECKED OK.'.

**30.12.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - M/GEN.LIGHT ILLUMINATED - AUX/GEN.KNIFE SWITCH RE-POSITIONED - (KNIFE SWITCH FOUND PULLED)'.

**07.01.1990** Service defect: 'UN - EXHAUST - OIL FROM STACK - EXHAUST CHECKED OK.(DRY & EXHAUST CLEAR)'.

**23.01.1990** Service defect: 'SW - ENGINE TURBOCHARGER/SUPERCHARGER - BLOWER SEAL FAILURE - BLOWERS EX.GM13 INSTALLED. TRAVELLED 27,000KMS. PAPER FILTERS FITTED TO BLOWERS.'.

**06.02.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - TRAIN/LINE FAULT -'.

**11.02.1990** Service defect: 'SW - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED. (LAB REPORT)'.

**15.02.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - B.T.R.BUS TRACKED TO FRAME.(RE-INSULATED - M/GENERATOR & T/MOTORS CHECKED OK.'.

**01.03.1990** Service defect: 'UN - NO FAULT FOUND - LOSING POWER - LOCO CHECKED IN DEPOT,NOT FAULTED.'.

**16.03.1990** Service defect: 'C - BATTERY MAINTENANCE - DEAD CELLS - 4 NO. STARTING BATTERIES REPLACED.'.

**16.03.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - L.1 FLANGE (9) - BOGIES EX.GM15 NSTALLED.'A'BOGIE GM302. THIN WHEELS 'B'BOGIE GM301.'.

**28.03.1990** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - SKIDDED WHEELS - BOGIES EX.GM20 INSTALLED. - LUBRICANT CHECK COMPLETED.'.

**29.03.1990** Service defect: 'TS - BATTERY MAINTENANCE - DEAD CELLS - 3 NO.STARTING BATTERIES REPLACED.'.

**29.03.1990** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - CRANK/CASE OPERATION - WORN PAXTON MITCHELL TEST TAP REPAIRED.'.

**08.04.1990** Service defect: 'UN - BOGIE - SEIZED ADJUSTER - L.1 SLACK/ADJUSTER REPAIRED.'.

**09.04.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - 4 NO.STABILISERS REPLACED ON 'A'BOGIE. - (BROKEN EYE/LETS (3NO.)& RUBBERS U/S(1NO.)'.

**22.04.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOW VOLTAGE - VOLT/REGULATOR RESET.'.

**22.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - PEDESTAL GASKET REPLACED.'.

**16.05.1990** Service defect: 'TS - ENGINE REPAIRS.EX. W.T.M.'.

**18.05.1990** Service defect: 'UN - ENGINE - NO1 & 9 CYLINDERS,RODS,PISTONS & HEADS CHANGED.ENGINE OIL CHANGED.SUMP CLEANED OUT A/C DROPPED VALVE.'.

**20.08.1990** Service defect: 'A - ENGINE PISTON - EXCESS RING CLEARANCE - NO.10 PISTON REPLACED.'.

**GM 15**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**21.07.1989** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - NO.16 JUMPER/LINE GASKET REPLACED.'.
**24.07.1989** Service defect: 'A - COOLING SYSTEM - WATER CHANGE - WATER DROPPED & TREATED WATER ADDED. - (LOCO REPAIRED IN ALICE/SPRINGS & FILLED WITHTAP WATER)'.
**27.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MARKER LIGHTS REPAIRED A/C LOOSE MOUNTING.'.
**27.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED A/C BLOCKED.'.
**28.08.1989** Service defect: 'UN - BOGIE - L4 SHOCKER CHANGED.'.
**12.09.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.3 T/MOTOR CLEANED/UP,OTHERS OK. - M/GENERATOR CLEANED/UP.'.
**12.09.1989** Service defect: 'UN - ENGINE GOVERNOR - VALVE FAULT - 'C'VALVE IN GOVN.CHANGED.'.
**26.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - D/S DOOR REPAIRED A/C LOCK FAULTY'.
**07.11.1989** Service defect: 'C - BLOCKED FILTERS - ENGINE FILTERS CHANGED A/C BLOCKED.'.
**07.11.1989** Service defect: 'C - BOGIE - SHOCKY REPLACED ON REAR BOGIE .'.
**07.11.1989** Service defect: 'C - ENGINE CYLINDER HEADS - NO.1.HEAD REPLACED A/C COLLETS WORN.'.
**07.11.1989** Service defect: 'C - ENGINE LINER - NO.14.POWER ASSEMBLY CHANGED A/C BROKEN LINER STUD.'.
**07.11.1989** Service defect: 'C - EXHAUST - EXHAUST BAND REPLACED A/C CRACKED.'.
**13.11.1989** Service defect: 'TS - MAIN GENERATOR - CARBON TRACKED BRUSH HOLDER REPLACED IN MAIN GENERATOR. REAR SLIP RING BRUSH HOLDER TO FRAME,WASHED OUT ,LT.05M/OHMS'.
**08.01.1990** Service defect: 'UN - NO FAULT FOUND - NO POWER IN FORWARD - LOCO CHECKED/TESTED IN BOTH DIRECTIONS - (JUMPER CABLE SUSPECT,REPLACED)'.
**06.02.1990** Service defect: 'B - ENGINE LINER - SPLIT LINER - NO.4 ASSEMBLY CHANGED/OUT.'.
**06.02.1990** Service defect: 'B - MAIN GENERATOR - SLIP/RINGS - RE-FACED.'.

**GM 16**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**24.07.1989** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK - NO.13 ELBOW & SEALS REPLACED.'.
**31.08.1989** Service defect: 'A - BOGIE - NO.3 TOP GEAR CASE REPAIRED A/C BROKEN.'.
**13.10.1989** Service defect: 'C - TRACTION MOTOR - OILY MOTOR - 'B'BOGIE REMOVED,NO.5 T/MOTOR WASHED OUT. - BOGIE REPLACED.'.
**27.10.1989** Service defect: 'UN - TRACTION MOTOR - NO.3.TRACTION MOTOR REPLACED A/C G/RELAYS & W/SLIPS.BROKEN BRUSH HOLDERS REPLACED A/C SCOURED COMMUTATOR.'.
**17.11.1989** Service defect: 'A - ENGINE - BASKET BOLTS RETORQUED.'.
**17.11.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS - SPARE BRUSH FOUND & REMOVED FROM BETWEEN BRUSH HOLDER & COMMUTATOR IN MAIN GENERATOR.MEG OK, .3 OHMS.'.
**08.12.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.
**15.12.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER FAULT - HOSE REPLACED.(SPLIT)'.
**15.12.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - ALL T/MTRS CLEANED/UP.(SLIGHT FLASHING) - M/GENERATOR CLEANED/UP & PAINTED OUT.'.
**15.12.1989** Service defect: 'UN - OTHER BODY REPAIRS - TANK REPAIR - TANK EMPTIED/FLUSHED OUT/DEGASSED. - PIPE ON TOP OF TANK REPAIRED.'.
**18.12.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - EARTH ON POWER.RETURNED TO PORT AUGUSTA FOR REPAIRS.'.
**20.12.1989** Service defect: 'UN - MAIN GENERATOR - GROUND RELAYS - FAULT TRACED TO 1) MAIN GENERATOR AND 2) NO. 5 TRACTION MOTOR. LOCO STORED PENDING WITHDRAWAL A/C'.
**20.12.1989** Service defect: 'UN - MAIN GENERATOR - NO SPARE MAIN GENERATOR AVAILABLE AND KM SINCE OVERHAUL IS 1,739,352 - AWAITING RETIREMENT DECISION.'.

**GM 17**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**15.08.1989** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - O/SIDE NO1 RADIATOR REPLACED A/C HOLE IN THE CORE.'.
**19.09.1989** Service defect: 'UN - RADIO REPAIR - NO CHANNEL 5 - RADIO UNIT REPLACED.'.
**18.10.1989** Service defect: 'B - BOGIE - BOGIE CHANGE - 'A'BOGIE GM30 INSTALLED.'.
**18.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEEL - NO.5 WHEEL SET REPLACED.'.
**22.11.1989** Service defect: 'D - ELECTRICAL MISCELLANEOUS - CLOCK ON SPEEDO REPLACED A/C FAULTY.'.
**22.11.1989** Service defect: 'D - ENGINE - BASKET BOLTS RETORQUED.'.
**06.01.1990** Service defect: 'TS - OTHER BODY REPAIRS - CONCERTINA - REMOVED & REAR RECEPTACLE MOD.COMPLETED.'.
**06.01.1990** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORTS - RE-CONDITIONED RADIATORS INSTALLED. - O/HAULED OIL/COOLER INSTALLED.'.
**15.01.1990** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - OIL PIPE TO LOAD/REGULATOR REPAIRED. -

(CRACKED FLARE ON PIPE)'.

**10.02.1990** Service defect: 'TS - NO FAULT FOUND - WHEEL/SLIP - LOCO CHECKED IN DEPOT,NOT FAULTED.'.

**23.02.1990** Service defect: 'UN - WHEELSLIP - WHEELSLIP - 2 RESISTORS O/S, 1 RESISTOR BROKEN IN WHEELSLIP CIRCUIT. RESISTORS REPLACED, TESTED OK.'.

**01.04.1990** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT - TESTED, UNABLE TO FAULT.'.

**01.04.1990** Service defect: 'TS - ENGINE GOVERNOR ELECTRICAL - POWER LOSS - BROKEN WIRE IN GOVERNOR PLUG(B VALVE),PLUG BASE DAMAGED-REPAIRED AND TESTED OK.'.

**12.04.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - L.5 FLANGE (10) - WHEEL SET CHANGED/OUT.'.

**12.04.1990** Service defect: 'A - MAIN GENERATOR - SLIP/RINGS - MACHINED.'.

**23.04.1990** Service defect: 'UN - BATTERY MAINTENANCE - BLOWN BATTERY - 1 NO.STARTING BATTERY REPLACED.'.

**23.04.1990** Service defect: 'UN - BROKEN VALVE - BURNT VALVE - NO.8 CYLINDER HEAD REPLACED.'.

**01.05.1990** Service defect: 'TS - TRACTION MOTOR FLASHOVER - GROUND RELAY DUE TO FAULTY BRUSH HOLDER IN NO6 TM,INSULATED & RETURNED TO PT AUGUSTA FOR REPAIRS.'.

**01.05.1990** Service defect: 'TS - BRUSH HOLDER IN NO6 TM TO CHANGE.'.

**02.05.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSH/HOLDER NO.6 T/MOTOR REPLACED.'.

**01.06.1990** Service defect: 'C - RADIO REPAIR - RADIO -'.

**12.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPLACED.'.

**13.07.1990** Service defect: 'UN - BOGIE - NO.6 SUPPORT BEARINGS PACKED. SENT TO MILE END A/C WHEEL CHANGE.'.

**20.07.1990** Service defect: 'UN - BOGIE - CRACKED STRAPS - BOTH BRAKE STRAPS REPLACED.(R.1) - OUTER STRAPS REPLACED.(R.3,L.1&L.6).'.

**20.07.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO6 WHEELSET CHANGED.'.

**25.07.1990** Service defect: 'A - FUEL SYSTEM INJECTORS - INJECTORS - NEW SET INSTALLED.'.

**14.08.1990** Service defect: 'UN - ENGINE - * LOCO STORED A/C SUPPORT BEARING FAILURE *'.

### GM 18

Details: locomotive 'GM 18 V' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $247360
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 04.04.1957
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED PUG 20.01.94
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 15.12.1987 | | |
| SW Service Mileage: | 1126597 KM | SW Service Date: | 27.04.1990 |
| A Service Mileage: | 328093 KM | A Service Date: | 30.12.1992 |
| B Service Mileage: | 278488 KM | B Service Date: | 01.10.1992 |
| C Service Mileage: | 1062626 KM | C Service Date: | 18.12.1990 |
| D Service Mileage: | 944878 KM | D Service Date: | 12.06.1990 |
| E Service Mileage: | 695907 KM | A Service Date: | 29.07.1989 |
| F Service Mileage: | 1233892 KM | A Service Date: | 19.03.1992 |
| WT Service Mileage: | 1026597 KM | WT Service Date: | 30.10.1990 |
| US Service Mileage: | 373227 KM | A Service Date: | 26.02.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**10.07.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - FLASH/OVER ON M/GEN.CLEANED/UP.'.

**13.07.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY - M/GEN.HOOKED/OUT,PAINTED & AIR-CURED.'.

**19.08.1989** Service defect: 'UN - BOGIE - L3 & R3 STABILISERS REPLACED.'.

**19.08.1989** Service defect: 'UN - ENGINE - TOP DECK SEALS INSPECTED/TO CHANGE NEXT SERVICE,A/C NO SEALSAVAILABLE.'.

**25.08.1989** Service defect: 'A - BOGIE - L4.THRUST BLOCK REPLACED A/C BLOCK WORN.'.

**25.08.1989** Service defect: 'A - ENGINE - TOP DECK COVER REPLACED A/C TWISTED.'.

**23.10.1989** Service defect: 'UN - BOGIE - L4 & R4 BRAKE STRAPS REPLACED A/C BROKEN. R4 SLACK ADJUSTERREPLACED .'.

**25.10.1989** Service defect: 'A - BOGIE - BRAKE HANGER BLOCKS INSTALLED A/C EXCESS SLAP'.

**14.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO UNIT REPLACED A/C TIME PIECE FAULTY.'.

**23.11.1989** Service defect: 'C - BOGIE - WORN GEAR - NO.5 T/MOTOR REPLACED.(LOST CRATER BEARING SLIPPED - NO.6 T/MOTOR REPLACED.'.

**28.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEEL - NO.5 WHEEL SET CHANGED.'.

**19.01.1990** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATOR LEAK - D/SIDE NO.3 RADIATOR REPLACED.'.

**02.02.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - O/SIDE NO.6 INNER BRAKE STRAP REPLACED.'.

**12.02.1990** Service defect: 'UN - TRACTION MOTOR - T/MOTOR FAILURE - NO.2 T/MOTOR REPLACED.(COMM.SLIPPED)'.

**20.02.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - O/SIDE NO.6 INNER BRAKE STRAP REPLACED. HANGER SLAP - BLOCKS WELDED TO HANGERS TO STOP SIDE/SLAP.'.

**20.02.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - BOLTS MISSING - OIL ADDED TO SUPPORT,WICK & STUDS REPLACED. (2 NO.)'.
**22.02.1990** Service defect: 'B - ENGINE LINER - BROKEN STUD - NO.16 LINER REPLACED.'.
**27.04.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING - NEW SET RESILIANT RUBBERS FITTED. WEAR PLATES - AXLE BOX WEAR PLATES RE-WELDED.'.
**04.07.1990** Service defect: 'UN - BOGIE - ROUGH RIDING - BOTH BOGIES REPLACED (PETERBOROUGH).'.
**05.07.1990** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED O.K.'.
**13.07.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY'S - NO.5 T/MOTOR CABLE RE-INSULATED A/C RUBBED THRU.'.
**03.08.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTOR FAULTY - NO.2 REPLACED.'.
**03.08.1990** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED.'.
**17.08.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRE - ALP WIRE IN M/GEN.REPAIRED.'.
**31.08.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK - O/SIDE NO.2 RADIATOR REPLACED.'.
**06.09.1990** Service defect: 'B - RADIO REPAIR - BROKEN AERIAL - BASE REPLACED & AERIAL RE-POSITIONED.'.
**22.10.1990** Service defect: 'UN - TO BE PROFILED A/C EXCESS FLAT NO.6 WHEEL.(22/10)'.
**08.11.1990** Service defect: 'UN - ENGINE - BROKEN COVER - NO.9 INSPECTION COVER REPLACED.'.
**23.11.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REVERSER FAULT -'.
**02.12.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOW POWER - RETAINING SPRING ON 'C'VALVE FINGER REPLACED.'.
**12.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LOSING TRAIN PIPE AIR - BRK/PIPE COCK RE-POSITIONED. - VIGILANCE RE-SET.'.
**22.03.1991** Service defect: 'UN - GENERAL ACCIDENT - COLLISION REPAIRS - REAR RADIAL PLATE & BOLTS REPLACED.'.
**08.05.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - OIL IN NO.5 T/MOTOR,SENT M.P.C.FOR CHANGE/OUT. - (BOOKED ON SCHEDULED WORK)'.
**08.05.1991** Service defect: 'TS - NO.5 T/MOTOR CHANGE A/C EXCESSIVE OIL.'.
**08.05.1991** Service defect: 'TS - RETURN TO M.P.C. A/C LIFTING JACK FAILURE. (8/5)'.
**18.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDS CLEANED & TESTED OK.'.
**18.07.1991** Service defect: 'UN - RADIATOR/PRESSURISING FAN - ALL RADIATORS FANS TESTED OK.'.
**18.07.1991** Service defect: 'UN - REVERSER - REVERSER GREASED.'.
**14.08.1991** Service defect: 'UN - BOGIE - NO 5 AXLE BOXES REMOVED & NEW BOXES INSTALLED,A/C AXLE BOXESU/S.BOXES FILLED WITH OIL,LATERAL CLEARANCES MEASURED.'.
**14.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO LIGHT FITTING REPAIRED.'.
**14.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER LEVER REPLACED.'.
**14.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'B'END NO 3 CONTROL & MAIN RES HOSE REPLACED.'.
**14.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - L.H.S. FUEL FILLER CAP REPLACED.'.
**23.08.1991** Service defect: 'UN - COOLING SYSTEM - WATER CHANGED, A/C LAB REPORT.'.
**23.08.1991** Service defect: 'UN - GENERAL - DOOR CATCH REPAIRED.'.
**23.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - BOTH 'A' 'B' PACKAGES REPLACED, A/C U/S.'.
**30.09.1991** Service defect: 'UN - BOGIE - CONCERTINA BURNT OFF A/C BENT'.
**09.10.1991** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATORS BLOWN OUT.'.
**09.10.1991** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - SAFETY CONTROL WIRING REPAIRED. A/C WIRE TOUCHING FRAME.'.
**09.10.1991** Service defect: 'A - GENERAL - BOTH PACKAGES CHECKED O/K.'.
**09.10.1991** Service defect: 'A - DRIVERS STAND DRUM CONTROLLER TO MONITOR. A/C'.
**09.10.1991** Service defect: 'A - CRACKED BAKELITE.'.
**18.12.1991** Service defect: 'B - FUEL SYSTEM INJECTORS - NO 11 INJECTOR CHANGED,A/C NOZZLE WEEPING.'.
**18.12.1991** Service defect: 'B - TRACTION MOTOR - 1 T/MOTOR BRUSH HOLDER REPLACED,A/C LOOSE CELL.'.
**10.02.1992** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - EARTH ON POWER.NO 4 FIELD CONNECTIONS ,BOOTS FULL OF WATER CLEANED LUGS & REPLACED BOOTS.P= 1.5M.'.
**10.02.1992** Service defect: 'TS - GENERAL - D/SIDE MIRROR REPLACED.'.
**18.02.1992** Service defect: 'UN - ALTERNATOR - NO A.C. ALTERNATOR FIELD SWITCH TURNED ON.'.
**19.03.1992** Service defect: 'F - BOGIE - SOME THRUST RUBBERS REPLACED A/CTORN ON JOURNAL BOXES. LATERAL CLEARANCES CHECKED OK.'.
**19.03.1992** Service defect: 'F - LUBRICATING SYSTEM OIL COOLER - NO.5 'P' PIPE REPLACED.'.
**19.03.1992** Service defect: 'F - REVERSER - REVERSER MUONTING BRACKET REWELDED.'.
**19.03.1992** Service defect: 'F - TRACTION MOTOR BRUSHES - NO.2 TOP BRUSH HOLDER & BOTTOM HOLDER REPLACED.NO.3 BOTTOM HOLDER REPLACED.-NO.6 BOTTOM BRUSH HOLDER REPLACED.'.
**17.07.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - FIREMANS HEATER SWITCH REPLACED. HOT PLATE SWITCH REPLACED.'.
**17.07.1992** Service defect: 'A - RADIATOR/PRESSURISING FAN - RADIATOR FAN PLUG REPLACED.-FANS TESTED OK.'.
**17.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE HOSES REPLACED.'.
**17.07.1992** Service defect: 'UN - TRACTION MOTOR - NO.2 T/M AND WHEEL SET CHANGED.'.
**10.09.1992** Service defect: 'UN - BOGIE - NO. GEAR CASE BOLTS TIGHTENED A/C FOUND LOOSE AT Q/FIX.'.
**30.10.1992** Service defect: 'TS - MECHANICAL

MAINTENANCE - AIR BRAKE - INDEPENDANT RELEASE PIPE REPAIRED, A/C HOLED. 'A'END TRAIN PIPE COCK REPAIRED.'.

**19.11.1992** Service defect: 'UN - ENGINE - NO 8 POWER ASSSEMBLY CHANGE COMPLETED.'.

**19.11.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL & MICHIANA OIL FILTERS REPLACED, A/C FUEL DILUTION. OIL LINE ACROSS BACK OF ENGINE REPAIRED, A/C BROKEN.'.

**30.12.1992** Service defect: 'A - GENERAL - CAB SOUND PROOFING REPAIRED.'.

**30.12.1992** Service defect: 'A - MAIN GENERATOR - GEN CLEANED, BRUSHED & BLOWN OUT & 18 BRUSHES CHANGED.'.

**30.12.1992** Service defect: 'A - TRACTION MOTOR - NO 4 T/M WASHED OUT, A/C FULL OF OIL.'.

**26.02.1993** Service defect: 'UN - **********GM18 STORED.**********'.

**GM 19**

Details: locomotive 'GM 19 H' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $247360
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 09.05.1957
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED 05.08.91
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 05.08.1991 | | |
| Last Lift: | 23.12.1983 | | |
| SW Service Mileage: | 951265 KM | SW Service Date: | 30.03.1990 |
| A Service Mileage: | 1222952 KM | A Service Date: | 07.06.1991 |
| B Service Mileage: | 1188396 KM | B Service Date: | 02.04.1991 |
| C Service Mileage: | 966812 KM | C Service Date: | 19.04.1990 |
| D Service Mileage: | 1119551 KM | D Service Date: | 04.12.1990 |
| E Service Mileage: | 855941 KM | A Service Date: | 03.11.1989 |
| F Service Mileage: | 742441 KM | A Service Date: | 23.12.1983 |
| WT Service Mileage: | 1223728 KM | WT Service Date: | 14.06.1991 |
| US Service Mileage: | 1242308 KM | A Service Date: | 05.08.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**06.07.1989** Service defect: 'UN - VIGILANCE - LHS VIGILANCE BUTTON BOOKED FAULTY.REPAIRED.'.

**18.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BROKEN SWITCH - GEN/FIELD C/BREAKER REPLACED.'.

**02.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE LUBRICATED.'.

**17.08.1989** Service defect: 'TS - CONTACTOR EP VALVES - P36 EP VALVE OPEN CIRCUIT ON COIL.NIL STOCK.RETURNED TO PT AUGUSTA FOR REPAIRS.'.

**18.08.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - P.36.E.P.VALVE CHANGED & TRANSITION TESTED OK.'.

**24.08.1989** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE CHANGED A/C OVERCHARGING B.P.'.

**15.09.1989** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR O/CHARGING - COMPRESSOR/GOVN RESET,OPERATING OK.'.

**05.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - BROKEN PIPE - COMPRESSOR UNLOADER PIPE REPAIRED.'.

**07.10.1989** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORTED - RAD/FANS & THERMOSTATS CHECKED OK. - (LOCO WORKING AS SINGLE UNIT ON GHAN)'.

**25.10.1989** Service defect: 'UN - GENERAL ACCIDENT - D/S QUARTER WINDOW REPLACED A/C BROKEN.'.

**03.11.1989** Service defect: 'E - MAIN GENERATOR - GENERATOR BRUSHED OUT,A/C COPPER PARTICLES IN GENERATOR.'.

**06.11.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - AIR HOSES REPLACED ON PARALLEL CONTACTORS.'.

**04.12.1989** Service defect: 'UN - BOGIE - BOGIE REPAIR - L.4 SLACK/ADJUSTER REPLACED.'.

**04.12.1989** Service defect: 'UN - FUEL SYSTEM - FUEL IN BY/PASS - FUEL FILTERS REPLACED.'.

**30.01.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - CONDEMNED FLANGE (10) - NO.1 WHEEL SET REPLACED.'.

**01.03.1990** Service defect: 'UN - NO FAULT FOUND - NO POWER FAULT - LOCO CHECKED IN DEPOT,NOT FAULTED. - PULL/METER REPLACED.(STICKING)'.

**08.03.1990** Service defect: 'UN - GENERAL - W/COOLER - WATER COOLER REPLACED A/C FAULTY. SPEEDO UNIT REPLACED A/C FAULTY.'.

**28.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST -'.

**30.03.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING - L.3&4 BOLSTER SPRINGS REPLACED.(BROKEN) - R.3,R.4&L4 STABILISERS REPLACED.(EYES BROKEN)'.

**21.05.1990** Service defect: 'UN - BOGIE - BRAKE GEAR - R.4 BRAKE STRAPS & SLACK/ADJUSTER REPLACED.'.

**01.06.1990** Service defect: 'UN - BOGIE - R4 BRAKE ADJUSTER REPAIRED.'.

**29.06.1990** Service defect: 'TS - TRACTION MOTOR SUSPENSION BEARING - BEARING FAILURE - NO.4 WHEEL/SET REPLACED.'.

**06.07.1990** Service defect: 'UN - BOGIE - NO.3 WHEEL CHANGED A/C CONDEMNED. NO.5 T/MOTOR WASHED A/C FULL OF OIL.'.

**10.07.1990** Service defect: 'UN - OTHER BODY REPAIRS - OBS/SIDE ENGINE ROOM DOOR REPLACED A/C MISSING.'.

**26.07.1990** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GEN CLEANED A/C SLIGHT FLASH. P-30K.'.

**26.07.1990** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 5 TM FLASHED A/C FLATS, CLEANED & CHECKED OK.'.

**16.08.1990** Service defect: 'TS - NO FAULT FOUND - BLOWER FAN NOISE - LOCO CHECKED IN DEPOT,NOT FAULTED.'.
**07.09.1990** Service defect: 'A - RESTRICTED TO 80 KMH TRAINS A/C G/RELAYS HI-SPEED.'.
**07.09.1990** Service defect: 'A - (7/9)'.
**17.10.1990** Service defect: 'UN - BOGIE - NO.4 SUPPORT BEARING-RH,TO BE RECTIFIED AT P/BORO'.
**17.10.1990** Service defect: 'UN - TO BE TAKEN TO P/BORO A/C NO.4 SUPPORT BEARING'.
**19.10.1990** Service defect: 'UN - BOGIE - NO.4 SUPPORT BEARING REPAIRED A/C FRACTURES'.
**19.10.1990** Service defect: 'UN - TO BE MONITORED UNTIL RETURNED TO PT.AUG.'.
**17.11.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ALARM BELL - REPAIRED.'.
**17.11.1990** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - NO.7 JUMPER/LINE REPLACED.(CRACKED)'.
**17.11.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVN FAULT - REPLACED.'.
**21.11.1990** Service defect: 'UN - BOGIE - L1,L4 SHOCKERS REPLACED.'.
**30.11.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING -'.
**31.01.1991** Service defect: 'TS - TRACTION MOTOR EARTH - SHATTERED BRUSH FOUND # 1 TRACTION MOTOR.'.
**25.03.1991** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHECKED OK.'.
**02.04.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSH REPLACED IN NO.5 T/MOTOR. - (PIG/TAIL BLOWN) & MOTOR CLEANED/UP.'.
**16.05.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK - D/SIDE NO.3 RADIATOR CHANGED.'.
**07.06.1991** Service defect: 'A - G/F ON FUEL TANK 'B'END LEAKING,TO BE REWELDED.*'.
**07.06.1991** Service defect: 'A - 11/6.'.
**19.06.1991** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B'END JUMPER RECEPTACLES REPAIRED,A/C PINS BROKEN.'.
**28.06.1991** Service defect: 'UN - GENERAL - OBS/SIDE WINDOW MECHANISM REPAIRED.'.
**05.08.1991** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.
**05.08.1991** Service defect: 'UN - STORED.'.

**GM 20**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**11.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE HANDLE REPLACED A/C BURRED OVER AND UNABLE TO FITINTO AUTO BRAKE VALVE.'.
**25.09.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO.1&4 T/MOTORS REPLACED. * (NO.1 T/MOTOR ARM/CIRCUIT DOWN,NO.4 T/MOTOR LOW READING)*'.
**23.10.1989** Service defect: 'TS - EARTH ON POWER.23/10.'.
**01.11.1989** Service defect: 'UN - TRACTION MOTOR - NO.2.TRACTION MOTOR REPLACED A/C GROUND RELAYS,TEST RUN OK.'.
**09.11.1989** Service defect: 'UN - ENGINE LINER - NO.5.POWER ASSEMBLY CHANGED A/C RIDGE IN LINER.'.
**13.11.1989** Service defect: 'UN - BOGIE - 5 SHOCK ABSORBERS TO REPLACE,NIL SPARES.RETURNED TO PT AUG FOR REPLACEMENT.'.
**14.11.1989** Service defect: 'UN - BOGIE - 3.NO.SHOCK ABSORBERS REPLACED ON FRONT BOGIE A/C ROUGH RIDING.'.
**29.11.1989** Service defect: 'B - ENGINE - BASKET BOLTS - RE-TORQUED.'.
**08.01.1990** Service defect: 'TS - BOGIE - BRAKE GEAR DAMAGE - REPAIRED.'.
**08.01.1990** Service defect: 'TS - TRACTION MOTOR SUSPENSION BEARING - BEARING FAILURE - NO.3 T/MOTOR REPLACED.'.
**12.01.1990** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - NO.10 JUMPER/LINE REPLACED.(CRACKED)'.

**GM 21**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**06.07.1989** Service defect: 'UN - BOGIE - EXCESS TRAVEL - BRAKES ADJUSTED UP.(REPORTED FROM M.E.D.D.) - (COULD NOT GET LOCO INTO W/SHOP)'.
**06.07.1989** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - LID BROKEN - D/SIDE REAR RECEPTICLE LID RE-NEWED.'.
**06.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER FAULT - O/SIDE HEATER REPAIRED.(REPORTED 'AS ABOVE') (ARCING)'.
**06.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - MIRROR CRACKED - D/SIDE MIRROR REPLACED.(REPORTED ' ' )'.
**02.08.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT'.
**03.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRK/PIPE PRESSURE 500.KPA. MAIN/RES PRESSURE 800-870 KPA. BRK/CYL PRESSURE 310 KPA.BRK/PIPE LEAKAGE - NIL.'.
**03.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE CHECK - 500 KPA -20 KPA. CHECKED OK. RISE IN BRK/PIPE GAUGE /MIN -NIL.'.
**03.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAX BRK/PIPE DROP -2.PSI. BEFORE IT RE-CHARGED. SINGLE UNIT TEST -OPERATION CHECKED,NOT FAULTED.'.
**03.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MULTIPLE UNIT TEST -CONNECTED TO 2ND LOCO NO.8032. CONTROL LOCO WORKING-(YES). TRAILING LOCO DEAD -(YES).'.
**03.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TEST - BRAKE TEST COMPLETED,CHECKED OK. * LOCO HAD FLATS ON WHEELS WHEN BEING HAULED FROM PKN.*'.
**30.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - LOSING REVS & POWER A/C TOO

MUCH LUBRICANT ON CONTROLLER DRUM. TRANSITION TEST OK,REVS CHECKED OK.'.

**17.09.1989** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORTS - BAFFLE PLATES TO RADIATORS RE-LOCATED. & SHUTTING/DOWN. - OIL PRESSURE & LINES CHECKED OK.'.

**17.09.1989** Service defect: 'UN - RADIATOR/PRESSURISING FAN - - RADIATOR FAN DIRECTION CHECKED OK.'.

**26.09.1989** Service defect: 'SW - ENGINE - FAULTY GAUGE - HOT ENGINE TEMP.GAUGE CHANGED.'.

**26.09.1989** Service defect: 'SW - OVERHEATING - HOT ENGINE REPORTS - LOAD/TESTED. FANS/THERMOSTAT CHECK OK. - ALL CEILING SHEETS IN PLACE.'.

**04.10.1989** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - BROKEN LID - D/SIDE REAR RECEPTICLE LID REPLACED.'.

**04.10.1989** Service defect: 'UN - ENGINE - BLOWN TEST/COCK - NO.1 TEST/COCK REPLACED.'.

**04.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN MIRROR - D/SIDE MIRROR REPLACED.'.

**04.10.1989** Service defect: 'UN - TRACTION MOTOR - COVER MISSING - NO.1 BOTTOM T/MOTOR COVER REPLACED.'.

**05.10.1989** Service defect: 'A - ELECT - RECEPTACLES/INTER CAR COUPLINGS - BROKEN BODY - O/SIDE FRONT RECEPTICLE REPLACED.'.

**16.10.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEELS - 'A'BOGIE EX.GM17 INSTALLED. ( 2&3 )'.

**19.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED.'.

**03.11.1989** Service defect: 'UN - COOLING SYSTEM - MARMON RUBBERS INSTALLED A/C RUBBER HOSES LEAKING ON WATER TANK'.

**03.11.1989** Service defect: 'UN - ENGINE - OIL LEAK IN ENG AIR BOX - L.H. ENG BLOWER REPLACED A/C OIL SEALS IN BLOWER FAILED.'.

**08.11.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.

**20.11.1989** Service defect: 'C - ENGINE - BASKET BOLTS RETORQUED.'.

**01.12.1989** Service defect: 'TS - OVERHEATING - HOT ENGINES - THERMOSTATS & HOUSING REPLACED A/C SETTINGS TOO HIGH. THERMOSTATS READJUSTED TOO CORRECT SETTINGS.'.

**30.12.1989** Service defect: 'TS - NO FAULT FOUND - LOW OIL SHUT/DOWN - ENG/GOVN OIL CHECKED OK. - RADIATOR FANS,ETC CHECKED OK.'.

**30.12.1989** Service defect: 'TS - OTHER BODY REPAIRS - BROKEN CHAIN - H/BRAKE CHAIN REPAIRED.'.

**15.01.1990** Service defect: 'A - NO5.T/MOTOR DRIVE GEAR TO CHECK A/C LOW ON SERVICE'.

**15.01.1990** Service defect: 'A - (15/1)'.

**17.01.1990** Service defect: 'TS - ENGINE - ENGINE PROTECTION DEVICE FAULTY.RETURNED TO PT AUGUSTA FOR REPAIRS.'.

### GM 22

Details: locomotive 'GM 22 V' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $263150
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 02.07.1962
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED PUG 14.02.94;'HUBERT OPPERMAN'
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 12.03.1994 | | |
| Last Lift: | 27.06.1989 | | |
| SW Service Mileage: | 946488 KM | SW Service Date: | 12.03.1994 |
| A Service Mileage: | 847690 KM | A Service Date: | 03.08.1993 |
| B Service Mileage: | 903503 KM | B Service Date: | 02.11.1993 |
| C Service Mileage: | 760189 KM | C Service Date: | 18.12.1992 |
| D Service Mileage: | 265237 KM | D Service Date: | 30.07.1990 |
| E Service Mileage: | 587374 KM | A Service Date: | 23.01.1992 |
| F Service Mileage: | 0 KM | A Service Date: | 27.06.1989 |
| WT Service Mileage: | 727119 KM | WT Service Date: | 04.11.1992 |
| US Service Mileage: | 935000 KM | A Service Date: | 13.12.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**07.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL PIPE NEAR HEAT EXCHANGER REPAIRED A/C CRACKED.'.

**18.07.1989** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - EXCESS REVS/POWER NOTCH1 - PINS STRAIGHTENED D/S.REAR RECPT. (BENT PINS 6-7)'.

**01.08.1989** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - WORN DRIVE GEAR - NO.6 WHEEL SET REPLACED.'.

**01.08.1989** Service defect: 'TS - TRACTION MOTOR - PINION - NO.6 T/MOTOR REPLACED. PINION BURNT/OFF TO HAUL - FROM PETER/BOROUGH TO PT.AUGUSTA.'.

**17.10.1989** Service defect: 'TS - BATTERY MAINTENANCE - UNABLE TO START - 5 NO.BATTERIES TOPPED/UP.(DRY CELLS) AFTER SHUT/DOWN. (CHARGE RATE CHECKED OK.)'.

**17.10.1989** Service defect: 'TS - NO FAULT FOUND - G/RELAY OPERATION - ALL T/MOTORS CHECKED,MEGGERED OK.'.

**18.10.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR G/RELAYS.UNABLE TO REPAIR.RETURNED TO PT AUGUSTA FOR REPAIRS.'.

**20.10.1989** Service defect: 'UN - TRACTION MOTOR - NO.1 TRACTION MOTOR REPLACED A/C EARTH FAULT.'.

**26.10.1989** Service defect: 'UN - TRACTION MOTOR - NO.2.TRACTION MOTOR TO PULL A/C G/RELAYS.(USE AS SHUNT LOCO UNTIL LIFT IS AVAIL).'.

**30.10.1989** Service defect: 'UN - TRACTION MOTOR - NO.3.TRACTION MOTOR REPLACED A/C GROUND RELAYS.'.

**04.12.1989** Service defect: 'C - ENGINE - BASKET BOLTS - RE-TORQUED.'.
**30.12.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NO STARTING POWER - BATTERIES TOPPED/UP.(10 GALLS ADDED) - CHARGING RATE CHECKED OK.'.
**06.01.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES U/S - 3 NO.STARTING BATTERIES REPLACED.(EX GM16) BATTS.OUT 524/303 & 1 NO NUMBER,BATTS IN 579/522 & 1 NO NUM.'.
**06.01.1990** Service defect: 'UN - BROKEN VALVE - BROKEN VALVE - NO.14 HEAD/PISTON & INJECTOR REPLACED.'.
**02.02.1990** Service defect: 'A - BOGIE - ROUGH/RIDING - ALL SHOCK/ABSORBERS REPLACED.'.
**12.03.1990** Service defect: 'B - BATTERY MAINTENANCE - DEAD CELLS - 3 NO.STARTING BATTERIES REPLACED.'.
**12.03.1990** Service defect: 'UN - TRACTION MOTOR - NO 1 TM CHANGED A/C COMMUTATOR BEARING COLLAPSED.(IN 54E-163OUT 51H-908).'.
**28.04.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING - NEW SET RESILIANT RUBBERS FITTED.'.
**28.04.1990** Service defect: 'SW - BROKEN PIPE - BROKEN PIPE - LOAD/REGULATOR OIL LINE REPAIRED.'.
**04.06.1990** Service defect: 'B - TO BE PROFILED A/C R.6 FLANGE (9) (4/6)'.
**14.06.1990** Service defect: 'UN - BROKEN PIPE - CRACKED FLARE - LOAD REGULATOR OIL PIPE RE-FLARED.'.
**28.06.1990** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER LEAK - L/HAND WATER/PUMP REPLACED.'.
**30.07.1990** Service defect: 'D - TO BE PROFILE A/C L.2 FLANGE(8). (30/7)'.
**25.08.1990** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - WATER LEAK - PROTECTION UNIT REPLACED.'.
**13.09.1990** Service defect: 'A - ENGINE PISTON - EXCESS RING/LAND CLEARANCE - NO.3 POWER/ASSY REPLACED.'.
**13.09.1990** Service defect: 'A - OTHER BODY REPAIRS - EXPLODED DRAW GEAR - REAR DRAW GEAR ASSEMBLY REPLACED.'.
**03.12.1990** Service defect: 'UN - BOGIE - HANGER MISSING - R.3 HANGER & INNER/OUTER STRAPS REPLACED.'.
**03.12.1990** Service defect: 'UN - BOGIE - PIN MISSING - L.3 BRAKE STRAP PIN FITTED. BROKEN STRAPS - R.6 INNER,L.4 INNER/OUTER STRAPS REPLACED.'.
**03.12.1990** Service defect: 'UN - OTHER BODY REPAIRS - GAUGE LEAKING - FUEL TANK GAUGE O/SIDE REPAIRED.'.
**03.12.1990** Service defect: 'UN - TO BE RE-ROSTERED FOR ROUGH/RIDING REPAIRS.'.
**03.12.1990** Service defect: 'UN - * SHOCKY/STABILISER RUBBERS U/S * (3/12)'.
**13.12.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING -'.
**08.01.1991** Service defect: 'UN - ENGINE - NO. 1,7,8 TEST COCKS CHANGED A/C LEAKING.'.
**18.01.1991** Service defect: 'UN - GENERAL ACCIDENT - BODY & W.H.B. REPAIRS REPLACED 1 NO BRAKE CYLINDER.'.
**24.01.1991** Service defect: 'UN - RETURN TO PORT AUGUSTA FOR REPAIRS-WHEELSLIP'.
**31.01.1991** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP OPERATION - NO.6 T/MTR CHANGED.(INT/POLE O.C.C.)'.
**08.02.1991** Service defect: 'C - ELECTRICAL MISC. VOLTAGE REGULATOR - NO ADJUSTMENT - VOLTAGE/REGULATOR CHANGED/OUT.'.
**08.02.1991** Service defect: 'C - TRACTION MOTOR - COVER MISSING - NO.3 BOTTOM T/MOTOR COVER FITTED.'.
**27.03.1991** Service defect: 'A - NO15 INSPECTION HOLE CAP TO REPAIR.'.
**10.05.1991** Service defect: 'UN - TRACTION MOTOR - NO 1 T/MOTOR REPLACED,A/C PINION TOOTH BROKEN.IN-D77B 75H1 1216 OUT- D37B 54E-163.'.
**10.05.1991** Service defect: 'UN - FUEL CUT OFF VALVE TO REPAIR.'.
**30.05.1991** Service defect: 'TS - BOGIE - BEARING FAILURE - NO.1 WHEEL SET CHANGED & T/MOTOR INSTALLED(AXLE/BOX) - T/MOTOR SERIAL NO.64C-101 IN.'.
**30.05.1991** Service defect: 'TS - OTHER BODY REPAIRS - COW/CATCHER - RE-FITTED A/C REMOVED AT MINGARY.'.
**18.07.1991** Service defect: 'UN - TRACTION MOTOR - BLOWER FAN SEIZED - REAR T/M BLOWER FAN REPLACED.'.
**07.08.1991** Service defect: 'A - GENERAL - D/SIDE HEATER REPAIRED.'.
**07.08.1991** Service defect: 'A - ''.
**12.11.1991** Service defect: 'B - BROKEN PIPE - NO 5 PISTON COOLING PIPE REPLACED,A/C BROKEN.'.
**12.11.1991** Service defect: 'B - ENGINE AIR FILTERS - ENGINE AIR FILTERS REPLACED.'.
**23.01.1992** Service defect: 'E - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH FOUND ON WATER COOLER,RECTIFIED.'.
**23.01.1992** Service defect: 'E - MAIN GENERATOR BRUSHES - 28 MAIN GEN BRUSHES CHANGED,A/C SHORT.'.
**23.01.1992** Service defect: 'E - L2 SUSPENSION BEARING U/S.23/1.'.
**29.01.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL PIPE TO STRAINER BOX REPLACED.ENGINE TOPPED UP WITH OIL.'.
**29.01.1992** Service defect: 'UN - TRACTION MOTOR - NO 2 T/MOTOR BEARINGS & AXLE REPLACED.'.
**06.02.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS & HOOTER VALVE (EX GM19) REPLACED.'.
**20.02.1992** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CABLE TO MAIN GENERATOR REPAIRED A/C RUBBED THROUGH TO EARTH'.
**14.04.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - TO W.T.M.A/C BAD FLATS ON NO 5 WHEELS.'.
**16.04.1992** Service defect: 'A - TRACTION MOTOR - BRUSH HOLDERS CHANGED IN NO'S 2 & 4 T/MOTORS.'.
**16.04.1992** Service defect: 'A - L6 FLANGE TO MONITOR.16/4.'.
**26.06.1992** Service defect: 'B - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT REPAIRED.WIRES ON OLS SWITCH REPAIRED.'.
**26.06.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NO.2 HEAD CHANGED. BOTH VALVE BRIDGES REPLACED A/C TAPPING BADLY.'.
**26.06.1992** Service defect: 'B - ENGINE WATER LEAK - WATER JUMPER REPLACED. A/C LEAKING BADLY.'.
**29.07.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - PCR AUX. CONTACTORS

MELTED.-PCR AUX. SWAPPED FOR BACK ONES A/C NIL IN STOCK.'.

**18.08.1992** Service defect: 'UN - ENGINE - NO.7 TEST COCK REPLACED. A/C BLOWING.'.

**18.09.1992** Service defect: 'A - ELECTRICAL MAINTENANCE - REVERSER - BRAIDS ON REVERSER REPLACED EX GM19.'.

**18.09.1992** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - REAR HEAD LIGHT CIRCUIT BREAKER REPLACED.'.

**18.09.1992** Service defect: 'A - TRACTION MOTOR - NO.5 T/M REMOVED TO CLEAN AND REPLACE BRUSH HOLDERS.'.

**18.09.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - 3 BRUSH HOLDERS REPLACED IN NO.5 T/M.'.

**18.09.1992** Service defect: 'A - VIGILANCE - VIG. PROBLEM REPAIRED.'.

**18.12.1992** Service defect: 'C - ENGINE PISTON - NO'S 2,5,6,12,13 & 15 PISTONS CHANGED, A/C RING LANDS EXCESSIVE.'.

**18.12.1992** Service defect: 'C - TRACTION MOTOR - NO 5 T/MOTOR REPLACED, A/C COMMUTUATOR HAD EXCESSIVE FLATS &BROKEN BRUSHES. T/M IN-61J-33. T/M OUT- 56E-428.'.

**18.12.1992** Service defect: 'C - VIGILANCE - VIGILANCE REPAIRED,CHECKED OK.'.

**27.02.1993** Service defect: 'A - AUXILLARY MACHINES - BRUSH HOLDER REPLACED IN AUX GENERATOR A/C WORN.'.

**27.02.1993** Service defect: 'A - BATTERY MAINTENANCE - DEAD CELL - 1NO BATTERY REPLACED.'.

**27.02.1993** Service defect: 'A - OTHER BODY REPAIRS - ENG ROOM SIDE REPAIRED.'.

**25.03.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - GR'S, NO 5 T/MOTOR 3 BRUSHES REPLACED,A/C CONDEMNED LIMIT. NO 6 T/MOTOR ALL CENTRE BRUSHES IN ALL BRUSH HOLDERS HAVE'.

**10.04.1993** Service defect: 'UN - ENGINE PROTECTION - ENGINE PROTECTION CHANGED,A/C LEAKING.'.

**11.05.1993** Service defect: 'B - BOGIE - L3 AND L4 SLACK AJUSTERS REPLACED A/C SEIZED.'.

**11.05.1993** Service defect: 'B - ENGINE CYLINDER HEADS - NO.11 CYLINDER HEAD REPLACED A/C WATER LEAK.'.

**11.05.1993** Service defect: 'B - OTHER BODY REPAIRS - DRIVERS MIRROR REPLACED.'.

**11.05.1993** Service defect: 'B - TRACTION MOTOR - TOP BRUSH HOLDERS ON NO.1 AND NO.2 T/M'S REPLACED.'.

**11.05.1993** Service defect: 'B - NO.'S ONE AND SIX T/M COMMS HAVE VERY BAD FLATS TO'.

**11.05.1993** Service defect: 'B - BE MONITORED.12/5/93.'.

**30.06.1993** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION TESTED OK.'.

**30.06.1993** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - GOVERNOR REPLACED,A/C NOT OPERATING LOAD REG. RACKS ADJUSTEDTESTED OK.'.

**06.07.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.3 WHEELSET CHANGED A/C FLATS.'.

**06.07.1993** Service defect: 'UN - TRACTION MOTOR - NO.3 T/M WASHED BEFORE RE-FITTING.'.

**13.07.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED,WHEELSHEET TAKEN. LOCO TO TRAFFIC.'.

**16.07.1993** Service defect: 'TS - CONTACTOR MISCELLANEOUS - FSR2 REPLACED & SOME WIRES RELUGGED,A/C BURNT OUT. TESTED OK'.

**03.08.1993** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - 80 AMP BATT FIELD FUSE REPLACED, A/C LOCO NOT POWERING UP.'.

**03.08.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - APPLICATION PENALTY VALVE REPLACED.'.

**06.10.1993** Service defect: 'SW - BOGIE - GM22 PLACED ON NEW BOGIES. BOLSTER CLEARANCES CHECKED OK. DIRECTION TESTED OK.'.

**06.10.1993** Service defect: 'SW - OTHER BODY REPAIRS - DRIVERS MIRROR REPLACED.'.

**19.10.1993** Service defect: 'UN - ENGINE - AIR BOX COVER REPLACED, A/C BROKEN. AIR BOX PRESSURE CHECK OK.'.

**19.10.1993** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL LEAK REPAIRED.'.

**21.10.1993** Service defect: 'SW - ENGINE - NO 10 POWER ASSEMBLY REPLACED, A/C PISTON RING BROKEN.'.

**02.11.1993** Service defect: 'B - GENERAL - ENGINE ROOM DOOR REPLACED.'.

**02.11.1993** Service defect: 'B - OTHER BODY REPAIRS - MIRROR REPLACED, QUARTER WINDOW REPLACED.'.

**02.11.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - BRUSH HOLDER HEIGHTS ADJUSTED IN T/M'S 3 & 4.'.

**02.11.1993** Service defect: 'B - VIGILANCE - VIG CHECKED OK, A/C NOT CANCELLING.'.

**26.11.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CLASS LIGHT C/B REPLACED.'.

**26.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE/VALVE EXHAUST RUN TO OUTSIDE LOCO CAB.'.

**11.12.1993** Service defect: 'UN - FUEL SYSTEM - BROKEN FUEL PIPE BRAZED.'.

**13.12.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES. ISOLATING COCK 'A'END R/H/S REPAIRED.'.

**13.12.1993** Service defect: 'UN - REVERSER - REVERSER JAMMED. REVERSER CAM FILED A/C BEVEL EDGE WORN. RE-LUBRICATED A/C ALL CONTACT FACES DRY.'.

**07.01.1994** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - V.C LIGHT REPLACED.'.

**07.01.1994** Service defect: 'TW - GENERAL - R/H/S. SEAT ADJUSTMENT REPAIRED.'.

**07.01.1994** Service defect: 'TW - OTHER BODY REPAIRS - OBS. SIDE WINDING WINDOW FELL OUT OF FRAME. REPAIRED. R/H/S. WINDOW WIPER BLADE CLEANED.'.

### GM 23

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**14.07.1989** Service defect: 'B - BLOCKED FILTERS - BLOCKED FILTERS - ENGINE AIR FILTERS REPLACED. ALL FRONT & REAR PRESS FAN FILTERS REPLACED.'.

**14.07.1989** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK - NO14 CYL HEAD REPLACED A/C GROMMETTS LEAKING WATER.'.

**14.07.1989** Service defect: 'B - EXHAUST - DIRTY SPARK ARRESTERS - SPARK ARRESTERS CLEANED A/C SUSPECT FIRE STARTED IN FRONT PRESS FAN FILTERS.'.
**15.08.1989** Service defect: 'UN - BOGIE - BROKEN BRAKE STRAP - L4 BRAKE STRAP REPLACED.'.
**13.09.1989** Service defect: 'B - ENGINE PISTON - CRACKED PISTON - NO.12 HEAD,PISTON & LINER REPLACED.'.
**13.10.1989** Service defect: 'UN - BOGIE - BROKEN STRAPS - BRAKE STRAPS REPLACED.(D/SIDE 4,O/SIDE 4&6) (INNER) - ALL OTHER INNER BRAKE STRAPS REPLACED.(WORN)'.
**13.10.1989** Service defect: 'UN - BOGIE - HANGERS MODIFIED - D/SIDE'.
**23.10.1989** Service defect: 'D - COOLING SYSTEM RADIATOR - RADIATORS BLOWN OUT A/C OVER HEATING.'.
**22.11.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO.7 HEAD REPLACED A/C BURNT VALVE.'.
**24.11.1989** Service defect: 'UN - BOGIE - BOGIE REPAIR - L.1 BRAKE PIN SECURED.'.
**19.12.1989** Service defect: 'UN - VIGILANCE ISOLATED - VIGILANCE CONTROL WOULD NOT'.
**19.12.1989** Service defect: 'UN - GO INTO PENALTY OPERATION.'.
**22.12.1989** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - REPAIRED & OPERATION CHECKED OK. - (SNAP/ACTION PENALTY VALVE REPLACED)'.
**30.12.1989** Service defect: 'UN - NO FAULT FOUND - HOT ENGINE REPORT - OPERATION OF RAD.FANS CHECKED OK.'.
**06.01.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SKIDDED WHEELS - BOGIES EX.GM16 INSTALLED.('A'BOGIE GM206) ('B'BOGIE GM305)'.
**13.02.1990** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT - SHUNT FIELD CONTACTOR REPLACED. - (ORIGINAL CONTACTOR BINDING)'.
**14.02.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - RADIATORS BLOWN OUT.'.
**14.02.1990** Service defect: 'UN - D/SIDE BAFFLE SHEETS TO RE-POSITION. (14/2)'.
**26.02.1990** Service defect: 'TS - ENGINE PISTON - PISTON FAILURE - NO.2 ASSEMBLY REPLACED.'.
**01.03.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - AIR HOSE - POWER CONTACTOR AIR HOSE REPLACED.'.
**19.03.1990** Service defect: 'UN - ENGINE PISTON - EXCESS RINGLAND CLEARANCE - 2,4,6&8 ASSEMBLIES REPLACED.'.
**21.03.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - FLASH ON MAIN GEN CLEANED.TM'S CHECKED OK.'.
**25.03.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKING ON FLAT WHEELS - CHECKED OK.'.
**25.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER HOSE - R.3 HOSE REPLACED.'.
**02.04.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR FLAT WHEELS.SOME SMALL FLATS DETECTED.'.
**06.04.1990** Service defect: 'C - TO BE PROFILED A/C FLATS 'A'BOGIE. (6/4)'.
**10.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**08.06.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - WHEEL INSPECTION - WHEELS INSPECTED DUE TO DIFFERING WHEEL SIZES. LAST W.T. 1/5.'.
**21.07.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GEN V RING.INSULATORS,COMM CLEANED A/C SLIGHT FLASH.'.
**18.09.1990** Service defect: 'UN - BOGIE - SUPPORT FAILURE - NO.4 AXLE CLEANED/UP & SUPPORT REPLACED.'.
**29.09.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS - O/SIDE NO.2 SANDER PIPE REPLACED.(BENT)'.
**02.10.1990** Service defect: 'UN - BOGIE - CRATER ADDED TO NO 2&6 GEAR CASES & NO 6 GEAR CASE BOLT TIGHTENED'.
**04.10.1990** Service defect: 'UN - OTHER BODY REPAIRS - MIRRORS BROKEN - BOTH REPLACED.'.
**15.10.1990** Service defect: 'TS - TO BE REMANDED IN STORAGE'.
**15.10.1990** Service defect: 'TS - FUEL DUMPED'.
**15.10.1990** Service defect: 'TS - BATTERIES TAKEN'.

### GM 24

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### GM 25

Details: locomotive 'GM 25 C' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Broad
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $263150
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 29.10.1962
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED 20.01.94
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 28.09.1989 | | |
| SW Service Mileage: | 366995 KM | SW Service Date: | 23.05.1991 |
| A Service Mileage: | 564328 KM | A Service Date: | 20.05.1992 |
| B Service Mileage: | 522769 KM | B Service Date: | 26.02.1992 |
| C Service Mileage: | 450347 KM | C Service Date: | 08.10.1991 |
| D Service Mileage: | 317007 KM | D Service Date: | 31.01.1991 |
| F Service Mileage: | 0 KM | A Service Date: | 28.09.1989 |
| WT Service Mileage: | 579303 KM | WT Service Date: | 14.07.1992 |
| US Service Mileage: | 579293 KM | A Service Date: | 10.12.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443

LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**28.09.1989** Service defect: 'F - ELECTRICAL MAINTENANCE -WIRING - SLIP RING WIRING RENEWED. BATTERY AND SHUNT FIELD CIRCUIT REWIRED. OVERHAULED RADIATOR FANS FITTED.'.

**28.09.1989** Service defect: 'F - ENGINE - ENGINE INTO GM 25 SERIAL NO 66-J1-1014. TOP DECK SEATS MACHINED. NEW CAMSHAFT SEGMENT FITTED (9-16). MAIN, BIG END'.

**28.09.1989** Service defect: 'F - ENGINE - INSERTS RENEWED. NO 1 IDLER GEAR RENEWED. RECONDITIONED CHROME LINERS FITTED. NEW PISTONS AND RINGS RECONDITIONED'.

**28.09.1989** Service defect: 'F - ENGINE - NEW HYDRAULICS IN LASH ADJUSTERS, NEW GEAR TYPE DAMPER FITTED. ONE FORK ROD RENEWED ACCOUNT CRACKED. LOWER LINER'.

**09.10.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - LACK OF ENG/REVS.- EB WIRE IN START PANEL RE-LUGGED. - LOCO TESTED OK.'.

**15.11.1989** Service defect: 'A - ENGINE - BASKET BOLTS RETORQUED.'.

**16.11.1989** Service defect: 'UN - GENERAL LOSS OF POWER - BOOKED FOR LOW POWER.P25 BLOWING,NIL SPARES,RETURNED TO PT AUGUSTA FOR REPAIRS.'.

**26.01.1990** Service defect: 'TS - BOGIE - R4 BRAKE HANGER PIN REPLACED A/C MISSING.'.

**02.02.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING -'.

**05.04.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - ALL WHEEL FLANGE THICKNESSES CHECKED.'.

**01.05.1990** Service defect: 'SW - BOGIE - COLLAPSED BEARING RACE - O/HAULED BOGIES INSTALLED.'.

**25.06.1990** Service defect: 'UN - VIGILANCE - VIGILANCE BOOKED FAULTY.CHECKED OK IN DEPOT.'.

**03.07.1990** Service defect: 'UN - CONTACTOR EP VALVES - VIGILANCE NOT WORKING. E.P. VALVE REPLACED A/C NOT PULLING IN.'.

**03.07.1990** Service defect: 'UN - GENERAL - RADIO TRANSMITTER REPLACED A/C U/S.'.

**12.07.1990** Service defect: 'UN - VIGILANCE - VIGILANCE - REPAIRED SNAP ACTION PENALTY VALVE. TESTED O.K.'.

**23.07.1990** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT - PCS RESEALED IN CORRECT POSITION. SAFETY CONTROL.'.

**05.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END BRAKE PIPE COCK REPLACED.'.

**31.01.1991** Service defect: 'D - VIGILANCE - VIG REPAIRS A/C WOULD NOT TRIP.'.

**18.03.1991** Service defect: 'A - BOGIE - SHOCKIES U/S - 4 NO.STABILISERS REPLACED 'A'BOGIE.'.

**18.04.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER JAMMING - REVERSER LUBRICATED & TESTED OK.'.

**18.04.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - HEATER U/S - O/SIDE HEATER REPAIRED.'.

**18.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - MIRROR CRACKED - O/SIDE MIRROR REPLACED.'.

**18.04.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRS - COMPLETED.'.

**03.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - REAR DRAUGHT GEAR & PACKAGE FITTED,REPAIRS DONE TO POCKET OF DRAUGHT GEAR.'.

**03.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED ON NOSE OF CAB.'.

**21.05.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.6 WHEELS CHANGED A/C DAMAGED FLANGE EX WHEEL LATHE.'.

**23.05.1991** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - COMPLETED,CHECKED OK.'.

**08.10.1991** Service defect: 'C - MAIN GENERATOR BRUSHES - 29 BRUSHES CHANGED A/C REACHED CONDEMING LIMIT.'.

**08.10.1991** Service defect: 'C - TRACTION MOTOR BRUSHES - 11 T/M BRUSHES CHANGED A/C SHORT.'.

**10.12.1991** Service defect: 'UN - GENERAL - DRIVERS MIRROR REPLACED.'.

**10.12.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A' END PACKAGE REPLACED.'.

**26.02.1992** Service defect: 'B - FUEL SYSTEM - FUEL FILLER CAP FITTED.'.

**20.05.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 5 WICKS REPLACED,A/C DIRTY.'.

**20.05.1992** Service defect: 'A - GENERAL - NEW MIRROR FITTED OBS/SIDE.'.

**14.07.1992** Service defect: 'TS - SENT TO WTM 14/7/92.'.

**10.02.1993** Service defect: 'TS - LOCO STORED - ISLINGTON.'.

### GM 26

Details: locomotive 'GM 26 L' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $263150
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 27.11.1962
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED PUG 12.01.91
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 07.04.1983 | | |
| SW Service Mileage: | 1253396 KM | SW Service Date: | 04.10.1990 |
| A Service Mileage: | 1314451 KM | A Service Date: | 14.01.1991 |
| B Service Mileage: | 1280275 KM | B Service Date: | 14.11.1990 |
| C Service Mileage: | 1061661 KM | C Service Date: | 29.11.1989 |
| D Service Mileage: | 1215879 KM | D Service Date: | 07.08.1990 |
| E Service Mileage: | 964391 KM | A Service Date: | 11.07.1989 |
| F Service Mileage: | 767021 KM | A Service Date: | 07.04.1983 |
| WT Service Mileage: | 1139642 KM | WT Service Date: | 17.04.1990 |
| US Service Mileage: | 1314451 KM | A Service Date: | 06.12.1990 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**11.07.1989** Service defect: 'E - MECHANICAL EQUIPMENT COMPRESSOR - OIL CHANGE - COMPRESSOR OIL CHANGED TO AMPOL TECOMA 100.'.
**14.07.1989** Service defect: 'UN - NO FAULT FOUND - VIG CUT OUT - VIG CUT BACK IN AND CHECKED OK.'.
**29.07.1989** Service defect: 'UN - VIGILANCE - VALVE FAULTY - E.P.VALVE REPLACED VIGILANCE TESTED OK.'.
**04.08.1989** Service defect: 'UN - VIGILANCE - E.P. VALVE & STICK IN RELAY CHANGED & TESTED OK.'.
**16.08.1989** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - LOCO LOSING POWER -TRANSITION TESTED OK. CONTROL AIR TO ADJUST ON SVCE TOMMORROW A/C LOW (70PSI).'.
**21.08.1989** Service defect: 'A - BOGIE MAINTENANCE - WICKS - NO 2 SUPPORT CHANGED A/C PICKED UP METAL.'.
**23.08.1989** Service defect: 'WT - NUMBER 6 WHEEL ONLY A/C SKIDS'.
**22.09.1989** Service defect: 'B - ENGINE PISTON - WORN RING/LANDS - NO.2,5,7&13 HEAD/LINER & PISTONS REPLACED.'.
**24.09.1989** Service defect: 'UN - ENGINE WATER LEAK - LOSS OF COOLING WATER - NO.2 JUMPER LINE GASKET REPLACED. (PINCHED GASKET)'.
**24.10.1989** Service defect: 'A - ENGINE - NO.5 HEAD REPLACED A/C BROKEN ROCKER STUD. NO. 5 INJECTOR REPLACED A/C CEASED.'.
**29.11.1989** Service defect: 'C - ENGINE - BASKET BOLTS -RE-TORQUED.'.
**29.11.1989** Service defect: 'C - MAIN GENERATOR - SLIP/RINGS - OUTER SLIP/RING GROUND.'.
**05.02.1990** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATOR CHANGE - FULL SET OF RE-COND.RADIATORS INSTALLED. CRACKED 'Y'PIECE - REPLACED.'.
**05.02.1990** Service defect: 'A - EXHAUST - BLOWN GASKETS - FULL SET OF EXHAUST STACK GASKETS FITTED.'.
**05.02.1990** Service defect: 'A - LUBRICATING SYSTEM OIL COOLER - OIL/COOLER - CHANGED/OUT.'.
**12.02.1990** Service defect: 'UN - BOGIE - AND ADJUSTED A/C TOO HIGH.'.
**12.02.1990** Service defect: 'UN - BOGIE - ROUGH RIDING - L3 THRUST PAD (BRONZE) REPLACED. 1N0 BOLSTER SPRING REPLACED A/C BROKEN. BOLSTER TO BODY CLEARANCE CHECK'.
**16.02.1990** Service defect: 'UN - TO PROFILE A/C FLATS NO 6 WHEEL 16/2/'.
**02.03.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - D/SIDE INNER BRAKE STRAP REPLACED.'.
**02.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - NO MIRROR - D/SIDE MIRROR BRACKETS & MIRROR REPLACED.'.
**12.03.1990** Service defect: 'UN - OVERHEATING - BOOKED FOR OVERHEATING.CHECKED OK IN DEPOT.'.
**16.03.1990** Service defect: 'B - CONTACTOR WELDED - CONTACTOR WELDED - FAN CONTACTOR REPLACED.'.
**08.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LHS NO4 SPREADER BAR REPAIRED.'.
**12.04.1990** Service defect: 'UN - TO BE PROFILED A/C FLATS NO.6 WHEEL. (12/4)'.
**17.04.1990** Service defect: 'WT - BRAKES TO ADJUST'.
**21.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NOSE DAMAGE - TRAIN/PIPE COCK & HOSE REPLACED. - (DAMAGED BY BULLOCK)'.
**21.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO U/S - CABLE REPLACED.(STRETCHED)'.
**27.05.1990** Service defect: 'UN - BOGIE - SPREADER BAR REPLACED.'.
**27.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - R6 SANDER HOSE REPLACED.'.
**15.06.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDER PIPE - D/SIDE NO.3 SANDER PIPE REPAIRED.'.
**15.06.1990** Service defect: 'B - OTHER BODY REPAIRS - CRACKED MIRRORS - BOTH MIRRORS REPLACED.'.
**19.06.1990** Service defect: 'UN - BOGIE - NO 1 AXLE SPREADER BAR REPLACED'.
**20.06.1990** Service defect: 'UN - COOLING SYSTEM - BOOKED FOR WATER LEAK.LEAKING AROUND NO 14 LINER INTO AIRBOXPT AUG ADVISED.'.
**20.06.1990** Service defect: 'UN - NO 14. LINER LEAKING WATER INTO AIR BOX.'.
**27.06.1990** Service defect: 'SW - ENGINE WATER LEAK - WATER LEAK - NO.14 HEAD & GROMMETS CHANGED. (GROMMETS)'.
**09.07.1990** Service defect: 'UN - BOGIE - BRAKE HANGER SUPPORT BRACKETS WELDED ON.'.
**03.08.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - LATERAL CLEARANCE CHECKED & ADJUSTED.'.
**07.08.1990** Service defect: 'D - RADIATOR/PRESSURISING FAN - FAN FAILURE - O/SIDE NO.2 RADIATOR FAN REPLACED.'.
**15.08.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FAN FAILURE - O/SIDE NO.2 RADIATOR FAN REPLACED. - NO.4 RAD/FAN CONTACTOR REPLACED.'.
**03.09.1990** Service defect: 'UN - BOGIE - STABILISERS LEAKING - O/SIDE NO.1 & D/SIDE NO.2 REPLACED.'.
**08.09.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - D/SIDE & O/SIDE FRONT SHOCK/ABSORBERS REPL'D.'.
**21.09.1990** Service defect: 'A - BOGIE - RESILIANTS - CHECKED OK & R.1 PEDESTAL LINER REPLACED.'.
**21.09.1990** Service defect: 'A - TRACTION MOTOR - T/MOTOR - LATERAL CLEARANCE CHECKED OK. T/M.1(17/64),2(3/32),3(3/64),4(1/8),5(3/64),6(3/16)CLEARANCE'.
**28.09.1990** Service defect: 'UN - MAIN GENERATOR FLASHOVER - G/RELAY OPERATION - M/GEN.CLEANED/UP.(FLASHED) - T/MOTORS CHECKED OK.'.
**30.09.1990** Service defect: 'UN - NO FAULT FOUND - G/RELAY OPERATION - T/MOTORS,CABLES,CONTACTORS ETC CHECKED, - MEGGERED,UNABLE TO FAULT.'.
**02.10.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - M/GEN.CLEANED,VEED OUT & RE-VARNISHED. - (M/GEN FLASHED)'.
**02.10.1990** Service defect: 'UN - NO.2 T/MOTOR TO REPLACE.(BEARING GASKET U/S) (2/10'.
**04.10.1990** Service defect: 'SW - TRACTION MOTOR - BEARING GASKET U/S - NO.2 T/MOTOR REPLACED.'.

**11.10.1990** Service defect: 'UN - LUBRICATING SYSTEM - LOW OIL REPORTED,OIL CHECKED,TOPPED UP'.
**11.10.1990** Service defect: 'UN - NO FAULT FOUND - RADIATOR FAN SUSPECTED A/C SHUTDOWN -ALL CONTACTORS AND FANS CHECKED NO FAULT FOUND'.
**26.10.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORTED - FANS,THERMOSTATS TEC CHECKED OK.'.
**06.11.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORTED - D/SIDE NO.2&3 CEILING SHEETS SECURED. - O/SIDE NO.2 ' ' ' '.'.
**14.11.1990** Service defect: 'B - BOGIE - BROKEN STRAPS - L.6 INNER/OUTER STRAPS REPLACED. - L.4 ' / ' ' ' '.'.
**17.11.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - R.4 INNER BRAKE STRAP REPLACED.'.
**06.12.1990** Service defect: 'UN - RADIATOR/PRESSURISING FAN - BEARING FAILURE - D/SIDE REAR RADIATOR FAN REPLACED.'.
**14.01.1991** Service defect: 'A - BOGIE - CRATER 6 BAGS (1,2,3,4) 7 BAGS (5) 8 BAGS (6).'.
**14.01.1991** Service defect: 'A - ENGINE - ENGINE BLOCK CRACKED NO 10 CYLINDER.'.
**14.01.1991** Service defect: 'A - LOCO TO BE STORED'.

**GM 27**

Details: locomotive 'GM 27 U' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $263150
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 07.01.1963
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED 13.03.94
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 25.01.1994 | | |
| Last Lift: | 16.02.1990 | | |
| SW Service Mileage: | 663221 KM | SW Service Date: | 01.10.1993 |
| A Service Mileage: | 693927 KM | A Service Date: | 25.11.1993 |
| B Service Mileage: | 593039 KM | B Service Date: | 16.06.1993 |
| C Service Mileage: | 403262 KM | C Service Date: | 08.07.1992 |
| D Service Mileage: | 297560 KM | D Service Date: | 17.06.1991 |
| E Service Mileage: | 644700 KM | A Service Date: | 02.09.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 16.02.1990 |
| WT Service Mileage: | 593034 KM | WT Service Date: | 10.06.1993 |
| US Service Mileage: | 685062 KM | A Service Date: | 11.11.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**12.07.1989** Service defect: 'UN - 'B'END AUTO COUPLER TO CHANGE.'.
**13.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - COLLISION CHECK - FLANGE WEAR RECORDED,CHECKED OK.'.
**13.07.1989** Service defect: 'UN - ENGINE - ALIGNMENT - ENGINE & GENERATOR ALIGNMENT CHECKED OK.'.
**13.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLINGS - 'A'END COUPLING CHECKED OK. - 'B'END COUPLER REPLACED.'.
**13.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TESTS - LOCO COUPLED TO DL41 FOR BRAKE TESTS CHECKED OK.'.
**27.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**13.08.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS - MAIN GENERATOR CLEANED OUT A/C SLIGHT FLASH.TRACTION MOTORS CHECKED AND NO4 T/M SUSPECT. SENT TO SHUNT.'.
**16.08.1989** Service defect: 'SW - NO FAULT FOUND - GROUND RELAY CHECK - NO 4. TRACTION MOTOR CHECKED OK.'.
**20.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLER PULLED - FRONT DRAW/GEAR POCKET REBUILT. THROAT OUT. - PLATE & FRONT DRAW/GEAR ASSEMBLY RE-NEWED.'.
**20.09.1989** Service defect: 'UN - RADIO REPAIR - NO CHANNEL 5 - RADIO UNIT REPLACED.'.
**22.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BLOWN GASKET - AUTO/BRAKE PEDESTAL GASKET REPLACED.'.
**06.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE BLOWN - COMPRESSOR SAFETY VALVE REPLACED/RESET.'.
**31.10.1989** Service defect: 'UN - COOLING SYSTEM WATER PUMP - O/SIDE WATER PUMP REPLACED A/C LEAKING.'.
**16.02.1990** Service defect: 'F - ELECTRICAL MISCELLANEOUS - CIRCUIT TO MAIN GENERATOR RENEWED. NEW BATTERIES FITTED. ALL CONTACTORS SERVICED. NEW REAR RECEPTICLE PINS FITTED.'.
**16.02.1990** Service defect: 'F - ENGINE - HEADS RECONDITIONED. BIG END AND MAIN BEARINGS RENEWED. NO 6 AND 9 MAIN BEARING CAPS MACHINED. 2 NEW FORK RODS & 6'.
**16.02.1990** Service defect: 'F - ENGINE - OVERHAULED MOTOR FITTED TO GM 27 SERIAL NO 56-F-37. WATER AND OIL PUMPS RECONDITIONED. NEW RINGS AND PISTONS FITTED.'.
**16.02.1990** Service defect: 'F - OTHER BODY REPAIRS - CAB UPGRADED AND PAINTED. BODY RUST REMOVED.'.
**16.02.1990** Service defect: 'F - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES RECONDITIONED. ROCKER ARM BUSHES RENEWED. ENGINE ROOM LIGHTS REPAIRED. BATTERY FIELD AND SHUNT FIELD'.
**26.02.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - CRACKED FLARE, BRANCH PIPE TO THERMOSTAT - REPAIRED.'.
**12.03.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO INSTALLATION COMPLETED.'.
**14.04.1990** Service defect: 'UN - OTHER BODY REPAIRS -

MIRRORS U/S - BOTH MIRRORS REPLACED.(O/SIDE MISSING) (D/SIDE BROKEN)'.

**27.04.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSHES REPLACED NO.4 T/MOTOR.(FRAYED) - BOTTOM BRUSH/HOLDER BOLT REPLACED.'.

**07.05.1990** Service defect: 'B - BOGIE - BROKEN BRAKE STRAP - INNER BRAKE STRAP REPLACED.(R.1) BRAKE CYLINDER - R.3 REPLACED.(SLEEVE UNSCREWED)'.

**07.05.1990** Service defect: 'B - TO BE PROFILED A/C R.6 FLANGE (10). (7/5)'.

**09.05.1990** Service defect: 'WT - NO. 6 WHEEL TO BE CHANGED OUT.'.

**14.05.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO6 WHEELS CHANGED A/C CONDEMNED.'.

**29.05.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - BROKEN SPRING - NO.16 INJECTOR REPLACED.'.

**06.06.1990** Service defect: 'UN - COOLING SYSTEM WATER PUMP - TELL/TALE LEAK - D/SIDE WATER PUMP REPLACED.'.

**06.06.1990** Service defect: 'UN - OTHER BODY REPAIRS - MIRROR - O/SIDE MIRROR REPLACED.'.

**14.06.1990** Service defect: 'UN - GENERAL ACCIDENT - MAIN RES PIPING REPAIRED OR REPLACED.SPEEDO CABLE REPLACED, DRIVERS SIDE SHOCKER REPLACED,TM BELLOWS REPAIRED.'.

**15.06.1990** Service defect: 'SW - OTHER BODY REPAIRS - WINDOW - O/SIDE WINDOW REPLACED.'.

**25.06.1990** Service defect: 'A - REEAR DRAFT BOX TO REPLACE A/C EXPLODED. (25/6)'.

**05.07.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER LIFTING PIN & ROD REPLACED A/C BENT.'.

**22.08.1990** Service defect: 'TS - BOGIE - BROKEN STRAPS - O/SIDE NO.4 INNER BRAKE STRAP REPLACED. - D/SIDE INNER/OUTER STRAPS REPLACED.'.

**22.08.1990** Service defect: 'TS - BOGIE - SEIZED ADJUSTER - D/SIDE NO.4 SLACK/ADJUSTER REPLACED.'.

**22.08.1990** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS - D/SIDE NO.1,3&4 SANDER HOSES REPLACED.'.

**24.08.1990** Service defect: 'C - BOGIE - MODIFICATION - BRAKE MOD.COMPLETED.'.

**31.08.1990** Service defect: 'UN - BOGIE - SIDE/SLAP - O/SIDE NO.1 & D/SIDE NO.2 STABILISERS REPLACED.'.

**31.08.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSHES NO.6 T/MOTOR REPLACED.(HANGING)'.

**20.09.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REVERSER FAULT - WIRE TO EP VALVE REPAIRED.(WIRE BROKEN)'.

**28.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - MECHANISM CHANGED.'.

**28.09.1990** Service defect: 'UN - RADIO REPAIR - RADIO - UNIT TESTED OK.'.

**30.09.1990** Service defect: 'TS - ENGINE - O/SPEED TRIPPED - RE/SET LOCO RE-STARTED,CHECKED OK. (SHUT/DOWN)'.

**30.09.1990** Service defect: 'TS - FUEL SYSTEM LINES - SPLIT PIPE - FUEL LINE IN TOP DECK REPAIRED.'.

**21.10.1990** Service defect: 'UN - ENGINE - BOOKED FOR VIBRATIONS,MOUNTING BOLTS CHECKED,SHAFTS CHECKED.'.

**26.10.1990** Service defect: 'UN - ENGINE - BAD VIBRATION -'.

**10.11.1990** Service defect: 'UN - ENGINE - SHUT/DOWN - O/SPEED RE-SET,CHECKED OK.'.

**29.11.1990** Service defect: 'UN - AUXILLARY MACHINES - VIBRATIONS - AUX/GENERATOR REPLACED.(BEARING FAN END U/S)'.

**22.01.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO. 2 WHEELSET CHANGED A/C CONDEMENED ON THICKNESS'.

**28.01.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - # 9 HEAD REPLACED A/C EXHAST CHUFF.'.

**14.02.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BRUSHES REPLACED IN NO4 TM A/C LOOSE PIGTAILS CAUSING FLASH-OVERS.*'.

**21.02.1991** Service defect: 'UN - ENGINE - SHUTTING DOWN - MICHIANA FILTER CHANGED A/C HIGH PRESSURE.'.

**22.02.1991** Service defect: 'A - WHEELS TO MONITOR A/C 25MM THICK & FLANGES.(22/2)'.

**12.03.1991** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - THIN WHEEL - NO.1 WHEEL SET CHANGED/OUT. - WICK CHECK REQUIRED.'.

**13.03.1991** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - NO.1 WICK CHECKED OK AFTER WHEEL CHANGE.'.

**19.04.1991** Service defect: 'UN - VIGILANCE - VIG REPAIRS COMPLETED-EMERGENCY APPLICATION VALVE IN NOSE COMPARTMENT REPAIRED,A/C PIN WOULD NOT LOCATE.'.

**03.06.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - L1 RADIATOR REPLACED,CHECKED OK.'.

**03.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - D/SIDE DOOR REPAIRED.'.

**17.06.1991** Service defect: 'D - BOGIE MAINTENANCE - WICKS - WICKS REPLACEDIN R5-R6 & L6.'.

**17.06.1991** Service defect: 'D - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH FOUND ON 'B'END MARKER LIGHT,D/SIDE. REPLACED LAMPHOLDER & TOGGLE SWITCH.'.

**17.06.1991** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - 'D'TYPE 75V MAGNET VALVE REPLACED,A/C BLOWING.DISTRIBUTING VALVE REPLACED,A/C BLOWING.'.

**03.08.1991** Service defect: 'UN - BOGIE - BOTH BOGIES REPLACED,EX GM19.IN 'A'END GM339,OUT GM319. IN 'B'END GM340,OUT GM320.'.

**03.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED,EX GM19.MILEAGE CORRECTED TO RIGHT READING.'.

**03.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - BOTH MIRRORS REPLACED.'.

**16.08.1991** Service defect: 'A - ELECT - RECEPTACLES/INTER CAR COUPLINGS - NO 14 PIN REAR LEFT RECEPTICLE CLEANED, A/C BURNT.'.

**16.08.1991** Service defect: 'A - SUPPLY VALVE FOR L3 & R3 SANDERS BROKEN,NIL STOCK.'.

**16.08.1991** Service defect: 'A - 16/8.NO 14 PIN REAR LEFT RECEPTICLE BURNT,NIL PINS'.

**16.08.1991** Service defect: 'A - AVAILABLE.16/8.'.

**02.12.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 6 AXLE REPLACED,A/C SUSPENSION BEARING FAILURE.'.

**02.12.1991** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - NO 6 T/MOTOR CHANGED,A/C SUSPENSION BEARING FAILURE.'.
**20.02.1992** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CABLE TO MAIN GENERATOR REPAIRED.A/C RUBBED THROUGH TO EARTH'.
**22.04.1992** Service defect: 'A - COOLING SYSTEM - NO 4 WATER JUMPER LINE REPLACED,A/C CRACKED.'.
**22.04.1992** Service defect: 'TS - WHEELSLIP - NO 6 T/MOTOR & WHEELSET REPLACED,A/C WHEELSLIP.AXLE BOXES & GEARCASES CHECKED.T/M IN- CB 1003.OUT-61M-1.'.
**06.05.1992** Service defect: 'UN - GENERAL - BOGIE WASH A/C OF EXCESS CRATER.'.
**08.07.1992** Service defect: 'C - BOGIE - SHOCK ABSORBERS CHECKED OK.'.
**08.07.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R1,R2,R3 AND R5 WICKS REPLACED.L1,L2,L3,AND L5 WICKS REPLACED.JOURNAL CHECKED OK.'.
**08.07.1992** Service defect: 'C - ENGINE - ENGINE INTAKE FILTERS REPLACED.'.
**08.07.1992** Service defect: 'C - MAIN GENERATOR BRUSHES - 36 BRUSHES CHANGED.-2 SLIP RING BRUSHES CHANGED.'.
**08.07.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE GAUGE REPLACED.'.
**08.07.1992** Service defect: 'C - OTHER BODY REPAIRS - OBS. SIDE MIRROR REPLACED.'.
**08.07.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - 35 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.
**13.07.1992** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO.6 WHEEL SET HAS FLATS. WHEEL SHEET DONE. SENT TO WTM.'.
**23.09.1992** Service defect: 'A - ENGINE GOVERNOR ELECTRICAL - LOW OIL SWITCH IN GOV REPLACED, A/C FAULTY.'.
**28.09.1992** Service defect: 'TS - GENERAL SHUTDOWN - ENGINE SHUTTING DOWN,ENGINE INSPECTION CARRIED OUT, NO FAULTFOUND.FUEL TANK EMPTY,FILLED UP, LOCO TESTED OK.NEW WATER &'.
**16.11.1992** Service defect: 'UN - GENERAL - ENGINE ROOM WASHED, A/C OIL LEAKS.'.
**22.12.1992** Service defect: 'B - BOGIE - ALL 12 LATTERAL RUBBERS CHANGED A/C DAMAGED OK. L5,L6'LATTERAL BRASSES CHANGED A/C WORN OK.'.
**22.12.1992** Service defect: 'B - ELECTRICAL MAINTENANCE - REVERSER - REVERSER GREASED AND MOUNTING BRACKET REPAIRED.OK.'.
**22.12.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - CHANGED 6 OCLOCK BRUSH HOLDER NO 5 T/M.'.
**23.01.1993** Service defect: 'UN - ENGINE - NO.3 CYLINDER VALVE BRIDGES REPLACED.'.
**02.02.1993** Service defect: 'UN - ENGINE WATER LEAK - CHANGED GASKET - FAN THERMOSTAT, A/C WATER LEAK AT FITTING.'.
**18.02.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - 2 RADIATOR BAFFLE PLATES REPLACED.'.
**18.02.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - ENGINE TEMP SWITCHES ADJUSTED, A/C SET APPROX 5-10 DEGS TOO LOW. LOCO LOAD TESTED & CHECKED OK.'.
**30.03.1993** Service defect: 'A - COOLING SYSTEM - WATER INLET TO RAD D/S REPAIRED,A/C LEAKING. MOUNTING PIN ONB END OF O/S RADS REPAIRED.'.
**30.03.1993** Service defect: 'A - FUEL SYSTEM INJECTORS - NO 12 INJECTOR CHANGED,A/C DRIPPING.'.
**30.03.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED.'.
**30.03.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - 3 SAND PIPES CHANGED.'.
**30.03.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - 2 PRESSURISING FANS CHANGED.'.
**28.05.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST COMPLETED A/C ACCIDENT AT BROKEN HILL. BRAKE SHEET ON FILE. TESTED OK.'.
**16.06.1993** Service defect: 'B - AUXILLARY MACHINES - AUX GEN DRIVE SHAFT SEAL REPLACED.'.
**16.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - 5 WICKS CHANGED.'.
**16.06.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - S23 CONTACTOR REPLACED. P14 & P36 CONTACTS REPLACED,A/C BURNT & PITTED CONTACTS/HOT CONNECTIONS.'.
**16.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - L4 & R4 SANDER VALVES REPAIRED.'.
**25.06.1993** Service defect: 'SW - LUBRICATING SYSTEM - LOCO LOAD TESTED, 1800 HP.SOME LOOSE BOLTS TIGHTENED AROUND GEAR TRAIN HOOUSING, A/C OIL LEAKS.'.
**15.07.1993** Service defect: 'TS - GENERAL - DRIVERS MIRROR REPLACED.'.
**15.07.1993** Service defect: 'TS - LUBRICATING SYSTEM - OIL LEAK REPAIRED - HOSES REPLACED ON OIL SEPERATOR.'.
**15.07.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - PACKAGE & YOLK REPLACED.'.
**31.07.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 5 T/MOTOR REPLACED, A/C GR'S. T/M IN- 62G-54. T/M OUT- 540-204. T/MOTOR EX GM 32. ALL TOP BRUSHES REPLACED.'.
**01.10.1993** Service defect: 'SW - BOGIE - NO.3 AXLE CHANGE COMPLETED.'.
**02.10.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - NO.3 W/SET WICKS CHECKED AND CHANGED A/C NEW WHEEL SET. TO BE CHECKED NEXT TRIP.'.
**28.10.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 5 WHEELSET REPLACED, A/C DAMAGED JOURNAL.'.
**28.10.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO 5 T/MOTOR REPLACED, A/C GROUND RELAYS.'.
**28.10.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - NOS 3,6 & 12 O'CLOCK BRUSHHOLDERS IN NO 6 T/MOTOR REPLACED, A/C LOOSE CELLS.'.
**11.11.1993** Service defect: 'UN - BOGIE - 'A'END LATERAL SHOCKERS REPLACED. 'B'END LHS NO 3 LATERAL RUBBERS REPLACED. 'A'END VERTICAL SHOCKER REPLACED.'.
**11.11.1993** Service defect: 'UN - 'B'END OBS/SIDE REAR VERTICAL TO CHANGE.11/11.'.
**25.11.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L4 & R3 WICKS REPLACED.'.
**25.11.1993** Service defect: 'A - LUBRICATING SYSTEM -

RUBBERS ON MARMON COUPLING FROM OIL PUMP TO MICHIANA TANK REPLACED.'.

**25.11.1993** Service defect: 'A - TRACTION MOTOR - NO 6 T/M BOTTOM CABLE STRAP REPLACED, A/C BROKEN.'.

**25.01.1994** Service defect: 'TS - NO.6 T/M TO BE CHANGED AND THEN GM27 WILL BE'.

**25.01.1994** Service defect: 'TS - STORED.25/1/94.'.

### GM 28

Details: locomotive 'GM 28 G' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $263150
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 11.02.1963
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED 08.01.90 A/C COLLISION
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 12.06.1981 | | |
| SW Service Mileage: | 1058403 KM | SW Service Date: | 09.08.1989 |
| A Service Mileage: | 1354330 KM | A Service Date: | 01.10.1990 |
| B Service Mileage: | 1389050 KM | B Service Date: | 13.11.1990 |
| C Service Mileage: | 1317100 KM | C Service Date: | 10.08.1990 |
| D Service Mileage: | 1173620 KM | D Service Date: | 18.01.1990 |
| E Service Mileage: | 926552 KM | A Service Date: | 26.01.1989 |
| F Service Mileage: | 514439 KM | A Service Date: | 12.06.1981 |
| WT Service Mileage: | 1389363 KM | WT Service Date: | 15.11.1990 |
| US Service Mileage: | 1417602 KM | A Service Date: | 08.01.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**25.10.1989** Service defect: 'A - ENGINE WATER LEAK - NO.8 HEAD ELBOW REPLACED A/C LOOSING WATER.'.

**06.11.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - NO.2. O/SIDE RADIATOR REPLACED A/C LEAKING.'.

**30.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - LUG ON WIRE TO AC FAN CONTACTOR REPAIRED. (H.R.JOINT)'.

**23.12.1989** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORT - RADIATOR FANS & THERMOSTAT OPERATION OK. - LOCO NOT FAULTED IN DEPOT.'.

**13.01.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHECK - CHARGE RATE CHECKED OK. - 20 GALLS WATER ADDED TO BATTERIES.'.

**01.02.1990** Service defect: 'WT - REMOVED 20MM. OF ALL WHEELS.'.

**06.03.1990** Service defect: 'A - OVERHEATING - LOAD BANK - LOAD TESTED TO CHECK FOR OVERHEATING,THERMOSTATSCHECKED TO BE OK.'.

**15.06.1990** Service defect: 'A - BLOCKED FILTERS - CAR BODY FILTERS - NEW SET INSTALLED. - LOCO LATE FOR TRAFFIC AWAITING FILTERS.'.

**10.08.1990** Service defect: 'C - TO BE PROFILED A/C L.1,L.2,R.4&R.6 FLANGES (8).'.

**10.08.1990** Service defect: 'C - (10/8)'.

**14.08.1990** Service defect: 'TS - CONTACTOR MISCELLANEOUS - LUG REPLACED ON CPC.'.

**16.08.1990** Service defect: 'TS - NO FAULT FOUND - PROTECTOR TRIPPED - NO FAULT FOUND.'.

**21.08.1990** Service defect: 'TS - ENGINE - CRANK/CASE OPERATION - PAXTON/MITCHELL REPLACED. NO SHUT/DOWN - LOAD/TEST COMPLETED AFTER 1 1/2 HRS.'.

**08.09.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOSING WATER - O/SIDE NO.2 RADIATOR REPLACED.'.

**08.09.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FAULTY METER - PULL METER REPLACED.'.

**13.11.1990** Service defect: 'B - TO BE PROFILED A/C L.1 FLANGE (9). (13/11)'.

**08.01.1991** Service defect: 'UN - GENERAL ACCIDENT - * COLLISION * - LOCO STORED UNTIL FURTHER NOTICE.'.

### GM 29

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### GM 30

Details: locomotive 'GM 30 L' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $246610
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 09.12.1964
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 07.12.1989 | | |
| SW Service Mileage: | 918060 KM | SW Service Date: | 08.02.1996 |
| A Service Mileage: | 801788 KM | A Service Date: | 12.09.1996 |
| B Service Mileage: | 930364 KM | B Service Date: | 25.05.1996 |
| C Service Mileage: | 978575 KM | C Service Date: | 16.09.1996 |
| D Service Mileage: | 896108 KM | D Service Date: | 05.06.1995 |
| E Service Mileage: | 672585 KM | A Service Date: | 09.02.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 07.12.1989 |
| WT Service Mileage: | 834174 KM | WT Service Date: | 05.01.1994 |
| US Service Mileage: | 794768 KM | A Service Date: | 23.11.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**31.07.1989** Service defect: 'B - ENGINE GOVERNOR MECHANICAL - FAULTY PROTECTOR - ENG/PROTECTOR EX.GM 25 INSTALLED. - OPERATION OF UNIT CHECKED OK.'.
**31.07.1989** Service defect: 'B - ENGINE PISTON - BROKEN RINGS - NO.9 ASSEMBLY REPLACED. - LINER CHANGED A/C RIDGE.'.
**24.08.1989** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - BOGIE CHANGE - A/C FLAT WHEELS,DRAGGING BRAKES.'.
**24.08.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRK/PIPE LEAKAGE - NIL.FLOWMETER CHECK OK. FEED VALVE CHECK OK.RISE IN BRK/PIPE GAUGE/MIN-7KPA. MAX BRK/PIPE DROP 14KPA.'.
**24.08.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRK/PIPE PRESSURE 500KPA..MAIN/RES PRESSURE 116-126 P.S.I. BRK/CYL PRESSURE 310KPA. CHECKED TO MASTER GAUGE.'.
**24.08.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - SINGLE UNIT TEST - OPERATION CHECKED NOT FAULTED. MULTIPLE UNIT TEST - TESTED WITH AL22. CONTROL LOCO WORKING'.
**07.09.1989** Service defect: 'E - ENGINE - NEW LASH ADJUSTERS FITTED.'.
**18.09.1989** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - ALARM BELL OPERATING - WIRE TO NVR/COIL REPAIRED.(BROKEN) CONTINUOUSLY.'.
**22.09.1989** Service defect: 'UN - BROKEN VALVE - BROKEN VALVE - NO.7 CYL/HEAD REPLACED. PISTON - NO.7 PISTON CHANGED.(TOP OF PISTON DAMAGED)'.
**26.09.1989** Service defect: 'TS - CONTACTOR WELDED - WHEN CONTACTOR FLASHED/OVER.'.
**26.09.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - FS1&FS2 CONTACT TIPS REPLACED.(WELDED) CONTACTOR WELDED. - P1-4 CONTACTOR REPLACED.'.
**26.09.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CABINET FIRE - EXTINGUISHED BY DRIVER & MINIMUM DAMAGE DONE. * CAUSE * RAG IN BOTTOM OF ELECTRICAL CABINET CAUGHT ALIGHT'.
**26.09.1989** Service defect: 'TS - TRACTION MOTOR FLASHOVER - FLASHED MOTORS. - NO.2&5 T/MOTORS CLEANED/UP. - OTHER T/MOTORS CHECKED OK.'.
**02.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - MICHIANA OIL FILTER GASKET REPLACED A/C LEAKING.'.
**07.12.1989** Service defect: 'F - ALTERNATOR - MAIN AND AUX. GENERATORS O/HAULED. INSPECT WIRING TO SLIP RINGS.'.
**07.12.1989** Service defect: 'F - CONTACTOR MISCELLANEOUS - SERVICE AND INSPECT CONTACTORS AND RELAYS. RENEW RADIATOR FAN HATCH WIRING. MODS NO 39 & 63 COMPLETED.'.
**07.12.1989** Service defect: 'F - ELECTRICAL MAINTENANCE -WIRING - REWIRE BATTERY FIELD AND SHUNT FIELD CIRCUIT. RELUG HEADLIGHT AND REARLIGHT GLOBE CONNECTIONS.'.
**07.12.1989** Service defect: 'F - ENGINE - ADJUSTERS. MAIN BEARING CAPS MACHINED NO 6 TO 8.258" (.006") ABOVE NOMINAL SIZE. NEW (CRANKCASE) LOW OIL DEVICE'.
**07.12.1989** Service defect: 'F - ENGINE - ENGINE EX GM 25 SERIAL NO 66-F1-1078 INSTALLED INTO GM 30. TOP DECK SEATS MACHINED. NEW MAIN & CAMSHAFT BEARINGS FITTED'.
**07.12.1989** Service defect: 'F - ENGINE - FITTED. PIPE MODIFICATION CARRIED OUT. STANDARD SEAT RINGS FITTED TO CYLINDER HEADS.'.
**07.12.1989** Service defect: 'F - ENGINE - NEWED. NEW PISTONS AND RINGS. ROCKER ARMS RECONDITIONED. GEAR TYPE DAMPER INSTALLED. NEW HYDRAULICS FITTED TO LASH'.
**07.12.1989** Service defect: 'F - ENGINE - OIL AND WATER PUMPS RECONDITIONED 2 NO FORK ROD REPLACED (12&13) ONE CAMSHAFT SEGMENT AND 16 LOWER LINER INSERTS RE-'.
**07.12.1989** Service defect: 'F - OTHER BODY REPAIRS - NEW ROOF LINING FITTED.FRONT AND REAR MARKER LIGHTS REPAIREDSANDER RELAY VALVES O/HAULED.'.
**07.12.1989** Service defect: 'F - RADIO REPAIR - RADIO FITTED.(U.H.F.) NEW BATTERIES FITTED.'.
**02.03.1990** Service defect: 'UN - RADIO REPAIR - RADIO - REPAIRS COMPLETED.'.
**13.03.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - D/SIDE & O/SIDE FRONT SHOCK/ABSORBERS REPL'D.'.
**22.03.1990** Service defect: 'UN - BOGIE - - SUPPORT BEARING TOPPED/UP ALSO.'.
**22.03.1990** Service defect: 'UN - BOGIE - BOGIE NOISE - BOGIE LUBE CHECKED OK, NO NOISE EVIDENT. - 3 BOXES USED TO TOP/UP G/CASES IN PKN.DEPOT.'.
**23.04.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - NEW SET OF RESILIANT RUBBERS FITTED.'.
**18.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PISTON FAILURE - D/SIDE NO.3 BRK/CYLINDER REPLACED.'.
**06.06.1990** Service defect: 'TS - WHEELSLIP - WHEEL/SLIP OPERATION -'.
**13.06.1990** Service defect: 'TS - WHEELSLIP - WHEEL/SLIP OVER 100 KPH - NO.2 T/MOTOR TO BE REPLACED. * ROSTERED TO M.E.D.D. FOR CHANGE/OUT *'.
**13.06.1990** Service defect: 'TS - NO.2 T/MOTOR TO BE REPLACED.'.
**13.06.1990** Service defect: 'TS - (WHEEL/SLIP AT 100 KPH) (13/6)'.
**20.06.1990** Service defect: 'SW - TRACTION MOTOR - NO 2 TM CHANGED.'.
**27.06.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - GROMMET LEAK - NO.1 HEAD & GROMMETS REPLACED.'.
**27.06.1990** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & MICHIANA FILTERS CHANGED.'.
**27.06.1990** Service defect: 'UN - SHUNTER USE ONLY A/C HIGH SPEED WHEEL/SLIP.(27/6)'.
**11.07.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP - TWO FS2 CABLES REPLACED A/C CORRODED LUGS. FS2 POST CONTACTS RESECURED. LOCO SUCCESSFULLY TEST RUN.'.
**01.08.1990** Service defect: 'A - TO BE PROFILED A/C L.6

FLANGE (8). (1/8)'.

**17.08.1990** Service defect: 'UN - COOLING SYSTEM - WATER DRIAN PIPE REPAIRED.'.

**28.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - CRACKED WINDOW - D/SIDE CAB DOOR WINDOW REPLACED.'.

**19.11.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - CABLE REPLACED A/C BROKEN.'.

**05.12.1990** Service defect: 'B - TO BE PROFILED A/C R.5 FLANGE (8). (5/12)'.

**17.12.1990** Service defect: 'TS - BOGIE - SUPPORT FAILURE - NO.6 T/MOTOR REPLACED.'.

**01.02.1991** Service defect: 'UN - BOGIE - BOGIES WASHED.'.

**08.02.1991** Service defect: 'D - TO BE PROFILED A/C FLATS NO.6 WHEEL. (8/2)'.

**08.03.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOV PLUG REPAIRED,A/C LATCHED OUT.'.

**03.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - CRACKS TO END PLATES ON BOTH PACKAGES CHECKED,OK FOR TRAFFIC'.

**11.04.1991** Service defect: 'A - ENGINE - OIL LEAK - NO4 ROCKER ARM REPLACED A/C PIN HOLE IN CASTING.'.

**27.06.1991** Service defect: 'B - OTHER BODY REPAIRS - MIRROR O/SIDE REPLACED.'.

**29.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END & 'B' END COUPLER PACKAGES REPLACED.'.

**16.08.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - MAIN GENERATOR CLEANED/UP & PAINTED. - (2 NO.FLASH/OVERS)'.

**20.08.1991** Service defect: 'A - BLOCKED FILTERS - ENGINE AIR INTAKE FILTERS CHANGED, A/C DIRTY.'.

**24.10.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - 4 WICKS ON 'A'BOGIE CHANGED.'.

**24.10.1991** Service defect: 'C - TRACTION MOTOR - 10 T/MOTOR BRUSH HOLDERS REPLACED,ALL T/M'S & MG PAINTED.'.

**29.10.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - MAIN GEN SEGMENTS VEED OUT, COM GROUND WITH STONE & CURRED, A/C GR'S.'.

**12.12.1991** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 4 BRUSHHOLDER CHANGED,A/C FLASHOVER.'.

**31.01.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - R1 RADIATOR REPLACED.'.

**31.01.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED & DIRECTION TESTED OK.'.

**10.03.1992** Service defect: 'TS - TRACTION MOTOR - NO4 T/MOTOR REPLACED A/C FLATS ON COMMUTATOR SURFACE TESTED OK.'.

**02.04.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD. FAN D/SIDE REAR REPLACED.EX GM 18.-FAN DIRECTION TESTEDOK.'.

**09.04.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - REPLACED LUG ON NO 3 FAN WIRING IN A.C. CABINET,A/C BURNT OFF.'.

**11.05.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - REAR D/SIDE RAD FAN REPLACED,A/C BURNT WIRING.THERMOSTAT & CONTROL WIRING REPLACED,A/C BURNT.'.

**11.05.1992** Service defect: 'UN - RADIATOR/PRESSURISING FAN - 6 RAD FAN CABLES THROUGH LATCH TO CONTACTOR REPLACED,A/C SHORTED.'.

**03.06.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L2 WICK REPLACED.'.

**03.06.1992** Service defect: 'B - GENERAL - OBS/SIDE MIRROR REPLACED.'.

**03.06.1992** Service defect: 'FA - TRACTION MOTOR - NO 6 T/MOTOR REPLACED,A/C BRUSH HOLDER & COMMUTATOR DAMAGE. T/M IN, 62F-188.OUT, 66L-CI29.'.

**05.08.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - ALL BRUSHES IN NO.1&5 T/MS REPLACED A/C BROKEN.'.

**05.08.1992** Service defect: 'TS - T/M NOS.1&5 HAVE BAD FLATS - TO MONITOR.'.

**16.08.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - CHANGED 4 INSIDE BRUSHES ON NO.5 T/M A/C CRACKED AND PULLED PIG TAILS. MOTOR TO CHANGE SOON.'.

**16.08.1992** Service defect: 'UN - NO.1 AND NO.5 T/MS TO MONITOR FOR FLATS.16/8/1992.'.

**01.09.1992** Service defect: 'A - BOGIE - NO.6 GEARCASE TIGHTENED A/C LOOSE.'.

**01.09.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1 & L2 WICKS CHANGED A/C DIRTY. L1, L2, L5, R4 OIL CHANGED A/C DIRTY.'.

**01.09.1992** Service defect: 'A - FUEL SYSTEM INJECTORS - NO.13 INJECTOR CHANGED A/C WET PISTON.'.

**20.10.1992** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL. FUEL PUMP REPLACED EX GM25.'.

**09.11.1992** Service defect: 'TS - ENGINE - ENGINE OIL & FILTERS CHANGED, A/C FUEL DILUTION. ENGINE INSPECTION COMPLETED OK.'.

**17.11.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L2,L5 & R5 WICKS REPLACED.'.

**17.11.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - ALL 4 INSIDE BRUSHES REPLACED IN NO 5 T/MOTOR, A/C CHIPPED FRAYED LEADS & PULLED LEADS.'.

**23.11.1992** Service defect: 'TS - COOLING SYSTEM RADIATOR - BAFFLE PLATE FITTED ABOVE RADIATORS, COMPRESSION TESTED.'.

**23.11.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - RAD FAN FOUND GOING IN WRONG DIRECTION, WIRING RECONNECTED.'.

**02.12.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - BRUSHES REPLACED IN NO 5 T/MOTOR, A/C SHATTERED. TOP BRUSH HOLDER REPLACED IN NO 5 T/MOTOR.'.

**09.02.1993** Service defect: 'E - MAIN GENERATOR BRUSHES - 45 GENERATOR BRUSHES CHANGED, AUX GENERATOR BRUSHES CHANGED,GENERATOR SLIP RING BRUSHES CHANGED.'.

**07.05.1993** Service defect: 'A - ELECT - RECEPTACLES/INTER CAR COUPLINGS - 'B'END DRIVERS RECEPTACLE REPLACED, A/C CRACKED FRONT.'.

**07.05.1993** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - FSR1 WIRING REPAIRED, A/C FS1 NOT PICKING UP. CHECKED OK.'.

**07.05.1993** Service defect: 'A - ENGINE WATER LEAK - NO 8 WATER JUMPER LINE REPLACED, A/C LEAKING WATER.'.

**07.05.1993** Service defect: 'A - MAIN GENERATOR - 35 MAIN GENERATOR BRUSHES CHANGED, A/C CONDEMN LENGTH.'.
**07.05.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - REAR PRESSURISING FAN BEE HIVE COVER REPLACED, A/C FULL OF HOLES.'.
**09.07.1993** Service defect: 'UN - BOGIE - BOGIES SWAPPED WITH GM 25. NO 4 & 5 W/SETS CHANGED.'.
**09.07.1993** Service defect: 'UN - TRACTION MOTOR - NO 4 & 5 T/MOTORS REPLACED.'.
**15.10.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 3 WHEELSET REPLACED, A/C AXLE CONDEMNED.'.
**15.10.1993** Service defect: 'TS - TRACTION MOTOR - NO 3 T/MOTOR REPLACED. T/M IN- 75F1-1342.'.
**12.11.1993** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATORS FILLED, LOCO RUN UP OK.'.
**12.11.1993** Service defect: 'A - LUBRICATING SYSTEM OIL COOLER - OIL COOLER REPLACED, CHECKED OK.'.
**12.11.1993** Service defect: 'A - TRACTION MOTOR FLASHOVER - NO 4 T/MOTOR FLASHOVER - BRUSHES REPLACED, COM CLEANED UP.'.
**06.04.1994** Service defect: 'C - GENERAL - D/SIDE WINDSCREEN WIPER BLADE REPLACED, O/SIDE ENG ROOM DOORLATCH REPAIRED. HEATERS REPAIRED AND COVERS REPLACED.'.
**06.04.1994** Service defect: 'C - MAIN GENERATOR - BRUSH HOLDER ON M/GEN REPAIRED.'.
**06.04.1994** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - L1 & 2 SAND PIPES REPAIRED.'.
**06.04.1994** Service defect: 'C - TRACTION MOTOR - CLEAT REPLACED IN NO 6 T/M, A/C LOOSE.'.
**06.04.1994** Service defect: 'C - TRACTION MOTOR BRUSHES - 9 BRUSHES REPLACED ON NO 4 T/MOTOR.'.
**30.06.1994** Service defect: 'A - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRS COMPLETED.'.
**99.99.9999** Service defect: 'A - A SCHEDULED SERVICE'.

### GM 31

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

### GM 32

Details: locomotive 'GM 32 G' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $246610
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 27.01.1965
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 24.04.1997 | | |
| Last Lift: | 07.06.1995 | | |
| SW Service Mileage: | 34459 KM | SW Service Date: | 14.07.1995 |
| A Service Mileage: | 160701 KM | A Service Date: | 24.04.1997 |
| B Service Mileage: | 61029 KM | B Service Date: | 16.07.1996 |
| C Service Mileage: | 150490 KM | C Service Date: | 18.01.1997 |
| D Service Mileage: | 859480 KM | D Service Date: | 25.03.1993 |
| E Service Mileage: | 565353 KM | A Service Date: | 08.08.1991 |
| F Service Mileage: | 30930 KM | A Service Date: | 07.06.1995 |
| WT Service Mileage: | 841397 KM | WT Service Date: | 04.03.1993 |
| US Service Mileage: | 150486 KM | A Service Date: | 17.01.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**08.07.1989** Service defect: 'TS - ELECTRICAL MAINTENANCE - REVERSER - NO POWER IN FORWARD - RVF 3-6 ECONOMY RESISTOR REPLACED.'.
**20.08.1989** Service defect: 'UN - BOGIE - SHOCK ABSORBERS , STABILISERS & RESILANTS CHECKED OK A/C LOCO ROUGH RIDING & VIBRATION.'.
**28.08.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING ON PLUG BASE. PLUG TO BE REPLACED(A.S.A.P.)'.
**30.08.1989** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - WIRING ON PLUG BASE REPLACED A/C BURNT.'.
**08.09.1989** Service defect: 'C - LUBRICATING SYSTEM - R6.WICK CHANGED A/C CONDITION OF OIL.'.
**07.10.1989** Service defect: 'TS - NO FAULT FOUND - WHEEL SQUEAL - NO.2 G/CASE LUBRICANT CHECKED OK IN DEPOT. - G/CASE TOPPED/UP AT M.E.D.PREVIOUSLY A/C LOW.'.
**24.11.1989** Service defect: 'B - ENGINE - BASKET BOLTS -RE-TORQUED.'.
**12.12.1989** Service defect: 'UN - BOGIE - G/CASE REPAIR - NO.2 G/CASE REPLACED.'.
**13.01.1990** Service defect: 'UN - HIGH BEAM SWITCH TO REPAIR'.
**16.01.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TORN CANVAS - REAR PRESSURISING FAN BEE/HIVE CANVAS REPLACED'.
**16.01.1990** Service defect: 'UN - ENGINE - DISLODGED CEILING SHEETS - RE-POSITIONED.'.
**16.01.1990** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN MIRROR - D/SIDE MIRROR REPLACED.'.
**17.01.1990** Service defect: 'A - TO BE PROFILED A/C L.5 FLANGE 9.5 (17/1)'.
**19.01.1990** Service defect: 'WT - REMOVED 10MM. FROM NO. 1,2&3 WHEELS.'.
**19.01.1990** Service defect: 'WT - REMOVED 30MM. FROM NO. 4,5&6 WHEELS.'.
**24.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**09.02.1990** Service defect: 'UN - ENGINE - ENGINE VIBRATIONS - REPAIRS COMPLETED TO CAB EQUIPMENT EG. LOOSE SIDE PANELS ETC TIGHTENED.'.
**02.03.1990** Service defect: 'B - ENGINE - VIBRATION - FULL ENGINE INSPECTION COMPLETED A/C LOCO VIBRATIONS.NO FAULT FOUND.'.

**11.04.1990** Service defect: 'D - BOGIE - CRACKED G/CASE - NO.4 G/CASE REPLACED.'.
**08.05.1990** Service defect: 'SW - AUXILLARY MACHINES - SEVERE VIBRATIONS - AUX/GENERATOR CHANGED/OUT.'.
**22.07.1990** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - LEAKING PROTECTOR - ENGINE PROTECTION DEVICE REPLACED.'.
**31.07.1990** Service defect: 'A - TO BE PROFILED A/C L.3,5&6 FLANGES (8). (31/7)'.
**08.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES PIPE IN ENGINE ROOM REPAIRED A/C LEAKING.'.
**18.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FACE REPLACED.'.
**29.08.1990** Service defect: 'UN - BOGIE - EXCESS TRAVEL - BRAKES TAKEN UP/A/HOLE A/C NO ADJUSTMENT.'.
**29.08.1990** Service defect: 'UN - OTHER BODY REPAIRS - FUEL GAUGES - CLEANED A/C COULD NOT SEE FUEL LEVELS.'.
**12.11.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - FULL SET RESILIANTS INSTALLED. - (OLD TYPE WERE MACHINED RESILIANTS)'.
**19.12.1990** Service defect: 'B - NO.2 T/MOTOR CHANGE REQUIRED A/C WORN PINION.'.
**17.01.1991** Service defect: 'SW - NO.2 T/MOTOR TO REPLACE A/C WORN PINION.'.
**01.02.1991** Service defect: 'UN - BOGIE - HAND BRAKE REPAIRED.'.
**14.02.1991** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - WORN PINION - NO.2 WHEEL SET CHANGED/OUT.'.
**14.02.1991** Service defect: 'SW - ENGINE - LOAD/TEST - COMPLETED A/C LOCO HAD BEEN SHUNTING.'.
**22.02.1991** Service defect: 'UN - ENGINE - OIL LEAK - EXHAUST STACKS TIGHTENED & TOP DECK SECURED.'.
**27.03.1991** Service defect: 'UN - BOGIE - SLACK ADJUSTERS LUBRICATED,BRAKES ADJUSTED.'.
**11.04.1991** Service defect: 'A - BLOCKED FILTERS - BLOCKED FILTERS - BLOWER FILTERS REPLACED.'.
**11.04.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - EMERGENCY BRAKE ON VIG NOT OPERATING CORRECTLY - DISTRIBUT- ING VALVE REPLACED.'.
**24.04.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK - MICHIANNA GASKET REPLACED AND BOGIES CLEANED.'.
**24.05.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - 1 NO.G/RELAY - NO.? T/MOTOR CLEANED/UP.'.
**08.08.1991** Service defect: 'E - BOGIE MAINTENANCE - WICKS - L1,L3,L5 & L9.R3,R4,R5 & R6 WICKS CHANGED.'.
**08.08.1991** Service defect: 'E - COOLING SYSTEM - CHANGED ENGINE WATER COOLANT, A/C VERY DIRTY.'.
**08.08.1991** Service defect: 'E - ELECTRICAL MISC. MODULES - 50 OHM RESISTOR CHANGED ON BKP2, A/C OPEN CIRCUIT.'.
**20.08.1991** Service defect: 'SW - OTHER BODY REPAIRS - CRACKED FUEL TANK - REPAIRS COMPLETED.'.
**22.08.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - FAULTY VALVE - DISTRIBUTING VALVE REPLACED.'.
**28.08.1991** Service defect: 'UN - FUEL SYSTEM PUMP - SEIZED FUEL PUMP - REPLACED.'.
**10.02.1992** Service defect: 'UN - GENERAL - D/SIDE WINDOW PLACED CORRECTLY IN TRACKS.'.
**10.02.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END PACKAGE CHECKED OK FOR TRAFFIC,TO MONITOR.'.
**10.02.1992** Service defect: 'UN - 'A'END PACKAGE TO MONITOR.10/2.'.
**17.02.1992** Service defect: 'A - BOGIE - PACKAGE REPLACED OK.TO MONITOR.'.
**17.02.1992** Service defect: 'A - TRACTION MOTOR BRUSHES - BRUSH HOLDER NO 3.MOTOR .REPLACED.'.
**17.07.1992** Service defect: 'B - AUXILLARY MACHINES - REAR BLOWER MOTOR REPLACED.A/C NOISEY.'.
**17.07.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - RVR CONTACTOR CHANGED A/C BURNT TIPS.LOCO GETTING W/SLIP'.
**17.07.1992** Service defect: 'B - MAIN GENERATOR BRUSHES - 21 GENORATOR BRUSHES CHANGED.'.
**17.07.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - NO.5 T/M BRUSH HOLDER REPLACED.9 O'CLOCK..'.
**24.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - L2 WHEELSET CONDEMNED. SENT TO WTM.'.
**07.10.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - THREE UNF SOCKET HEAD SCREWS REPLACED IN FIELD SHUNT CONTACTORS,MOVING CONTACTS, A/C MISSING. ALL WERE LOOSE-RETIGHTENED'.
**06.11.1992** Service defect: 'UN - ENGINE - ENGINE RUN & BLOWER TESTED OK.'.
**06.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR STRIPPED & CLEANED,REFITTED & TESTED OK.'.
**08.12.1992** Service defect: 'UN - GENERAL - D/SIDE WINDOW WINDER REPAIRED.'.
**08.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - HORNS REPAIRED.'.
**31.12.1992** Service defect: 'UN - COOLING SYSTEM WATER PUMP - D/SIDE WATER PUMP CHANGED (RHS),A/C LEAKING.'.
**31.12.1992** Service defect: 'UN - GENERAL - D/SIDE MIRROR REPLACED.'.
**31.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED.'.
**09.01.1993** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE VEG.CHANGED.'.
**09.01.1993** Service defect: 'B - W.T.M.AS SOON AS POS.WHEELS L3,L4.SHARP FLANGES.'.
**12.01.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - INCORECT V/REGULATOR REPLACED OK.'.
**12.01.1993** Service defect: 'UN - MAIN GENERATOR - BRUSHES TOO SHORT AND FRAYED,20 CHANGED OK.'.
**01.03.1993** Service defect: 'UN - BOGIE - BOGIE SWAP WITH GM18. DIRECTION TESTED OK.'.
**01.03.1993** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK INSPECTION - 6 WICKS CHANGED.'.
**25.03.1993** Service defect: 'D - BOGIE MAINTENANCE -

WICKS - L6 & R6 WICKS CHANGED.'.

**25.03.1993** Service defect: 'D - COOLING SYSTEM RADIATOR - 3 RADIATOR BAFFLE PLATES REPLACED, CLIPS ON RADIATOR CEILINGSHEETS REPAIRED.'.

**25.03.1993** Service defect: 'D - ELECTRICAL MISCELLANEOUS - CHAGED H.W.A. THERMOSTAT.'.

**25.03.1993** Service defect: 'D - ENGINE WATER LEAK - NO 16 WATER JUMPER LINE REPLACED, A/C WATER LEAKING.'.

**25.03.1993** Service defect: 'D - GENERAL - CUSHIONS ON DRIVERS SEAT REPLACED.'.

**25.03.1993** Service defect: 'D - VIGILANCE - VIGILANCE TIMING ADJUSTED.'.

**27.03.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED & SEVERAL JOINTS TIGHTENED.'.

**19.08.1993** Service defect: 'A - BROKEN VALVE - MAGNET VALVE REPLACED IN NOSE END OF CAB FLOOR.'.

**19.08.1993** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO'S 1, 3 AND 4 WHEEL SETS CHANGED A/C FLATS. LATERALS CHECKED.'.

**21.10.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK IN NOSE OF LOCO REPAIRED.'.

**30.10.1993** Service defect: 'UN - GENERAL - LOCOMOTIVE WOULD NOT START - FLAT BATTERIES.JUMP STARTED OK.'.

**18.11.1993** Service defect: 'UN - OVERHEATING - THERMOSTATS REPLACED AND REPAIRS TO WATER MANIFOLD BOLTS ANDFACE COMPLETED, LOCO CHECKED OK.'.

**03.12.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - BAFFLES IN RADIATOR REPLACED & REPAIRED. RADIATOR SCREENS REMOVED AND CLEANED.'.

**03.12.1993** Service defect: 'UN - ENGINE - NO 6 CYLINDER HEAD AND PISTON REPLACED, A/C DROPPED HEAD.'.

**03.12.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - 70 LB FEED VALVE REPLACED.'.

**13.01.1994** Service defect: 'A - CONTACTOR MISCELLANEOUS - RVF CONTACTOR REPLACED.'.

**13.01.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - CONTINUOUS W/SLIP ON NO.4 T/M. BRUSHES NOT MAKING CONTACT WITH COMM. BRUSHES REPLACED.'.

**11.02.1994** Service defect: 'UN - BLOCKED FILTERS - AIR IN-TAKE FILTERS CHANGED, A/C BLOCKED.'.

**11.02.1994** Service defect: 'UN - COOLING SYSTEM WATER PUMP - BOTH WATER PUMPS CHANGED.'.

**08.04.1994** Service defect: 'C - GENERAL - D/S MIRROR REPLACED.'.

**08.04.1994** Service defect: 'C - MECHANICAL EQUIPMENT BRAKE VALVE - NEW AUTO BRAKE VALVE FITTED.'.

**08.04.1994** Service defect: 'C - PEE PIPE - PEE PIPE ON NO 4 POWER ASSEMBLY CHANGED, A/C BROKEN.'.

**08.04.1994** Service defect: 'C - NO 6 T/M TO MONITOR, A/C BREAKING BRUSHES ON INSID'.

**08.04.1994** Service defect: 'C - E BRUSH TRACK. BATTERY AMMETER TO FIT WHEN ONE'.

**08.04.1994** Service defect: 'C - AVAILABLE.8/4. FRONT PRESSURISING FAN TO MONITOR,'.

**08.04.1994** Service defect: 'C - A/C BEARING NOISY - NIL STOCK.8/4.'.

**30.06.1994** Service defect: 'A - TRACTION MOTOR - NO 3 T/MOTOR BELLOWS REPLACED.'.

### GM 33

Details: locomotive 'GM 33 P' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $246610
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 10.03.1965
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED PUG 20.01.94
**BSG Code:** LSAG

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 19.09.1984 | | |
| SW Service Mileage: | 846084 KM | SW Service Date: | 21.12.1989 |
| A Service Mileage: | 882759 KM | A Service Date: | 15.02.1990 |
| B Service Mileage: | 912426 KM | B Service Date: | 03.04.1990 |
| C Service Mileage: | 717109 KM | C Service Date: | 01.06.1989 |
| D Service Mileage: | 602195 KM | D Service Date: | 17.11.1988 |
| E Service Mileage: | 852878 KM | A Service Date: | 04.01.1990 |
| F Service Mileage: | 729985 KM | A Service Date: | 19.09.1984 |
| WT Service Mileage: | 883062 KM | WT Service Date: | 16.02.1990 |
| US Service Mileage: | 927780 KM | A Service Date: | 11.05.1990 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**06.08.1989** Service defect: 'TW - LUBRICATING SYSTEM - HIGH VISCOSITY - ENGINE OIL & FILTERS CHANGED.'.

**13.08.1989** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - OIL PIPE FROM GOVERNOR TO OIL PRESSURE GAUGE RENEWED.'.

**16.08.1989** Service defect: 'UN - TRACTION MOTOR EARTH - NO. 1. TRACTION MOTOR TO REPLACE A/C ARMITURE TO FRAME.'.

**18.08.1989** Service defect: 'B - TRACTION MOTOR - NO.1. TRACTION MOTOR REPLACED.EARTH PROBLEM DUE TO BALLAST IN T/MOTOR ARMATURE TO FRAME.'.

**30.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - 1 NO.BATTERY REPLACED,A/C TOP EXPLODED WHEN STARTING.BATTERYLIFTING GEAR INSTALLED.'.

**11.09.1989** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - N010 POWER ASSY REPLACED A/C SPLIT LINER.'.

**19.09.1989** Service defect: 'UN - BROKEN VALVE - BROKEN VALVE - NO.16 HEAD/INJECTOR & PISTON REPLACED.'.

**19.09.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - PROTECTOR FAULT - PAXTON/MITCHELL REPLACED.'.

**28.09.1989** Service defect: 'A - TRACTION MOTOR - OILY MOTOR - 'B'BOGIE REMOVED TO CLEAN/OUT NO.5 T/MOTOR. - T/MOTOR CLEANED/UP OK & BOGIE INSTALLED.'.

**12.10.1989** Service defect: 'UN - BOGIE - ROUGH/RIDING - SHOCK/ABSORBERS CHECKED OK.'.
**24.10.1989** Service defect: 'UN - BOGIE - BRAKES TAKEN UP A HOLE.'.
**24.10.1989** Service defect: 'UN - ENGINE - NO 5 HEAD REPLACED A/C BROKEN VALVE.'.
**16.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE VALVE & DISTRIBUTING VALVE REPAIRED.'.
**17.12.1989** Service defect: 'UN - BROKEN VALVE - BROKEN VALVE - NO.7 PISTON,HEAD & INJECTOR REPLACED. - NEW SET OF LASH/ADJUSTERS INSTALLED.'.
**21.12.1989** Service defect: 'SW - LUBRICATING SYSTEM - DILUTION - ENG/OIL & ALL FUEL/OIL FILTERS CHANGED.'.
**21.12.1989** Service defect: 'SW - OVERHEATING - HOT ENGINE - ENG LOAD BANKED AND TEMPS RECORDED ON LOAD TESTSHEET. THERMOSTATS CHECKED OK. FANS CHECKED OK. NOT FAULTED.'.
**04.01.1990** Service defect: 'E - ENGINE PISTON - RING CLEARANCE EXCESSIVE - NO.2 PISTON & CYL/HEAD REPLACED.'.
**16.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**15.02.1990** Service defect: 'A - TO BE PROFILED.L.3(10),L.4(8),L.5(10),L.6(8)(15/2)'.
**15.03.1990** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR TOPPED UP WITH OIL A/C ENGINE WOULD NOT RUN.'.
**16.03.1990** Service defect: 'UN - NO FAULT FOUND - TRAIN/LINE FAULT - LOCO CHECKED IN DEPOT.(NOT FAULTED)'.
**02.04.1990** Service defect: 'TS - BATTERY MAINTENANCE - DEAD CELL - 1 NO.STARTING BATTERY REPLACED.'.
**02.04.1990** Service defect: 'TS - BROKEN VALVE - CHIPPED VALVE - NO.2 HEAD REPLACED.'.
**14.04.1990** Service defect: 'UN - ENGINE - CRANK/CASE OPERATION - VALVE BRIDGES REPLACED(NO.1 ASSY) (VACUUM 2 1/2') - (LASH/ADJUSTER COLLAPSED)'.
**14.04.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT - D/SIDE HAND PIECE REPLACED.'.
**19.04.1990** Service defect: 'TS - BLOCKED FILTERS - 8' VACUUM IN SUMP - BLOWER FILTERS CHANGED A/C CLOGGED. - VACUUM MEASURED 4' AFTER CHANGE/OUT.'.
**24.04.1990** Service defect: 'UN - ENGINE - CRANK/CASE OPERATION - NO.13 PISTON CHANGED.(CRACKED) - PAXTON MITCHELL CHANGED.'.
**05.05.1990** Service defect: 'TS - BATTERY MAINTENANCE - DEAD CELL - 1 NO.STARTING BATTERY REPLACED.'.
**05.05.1990** Service defect: 'TS - ENGINE - CRANK/CASE OPERATION -'.
**11.05.1990** Service defect: 'UN - ENGINE - LOCO SHUTTING/DOWN - NO.13 PISTON & NEW HEAD FITTED. - (BOTTOM OIL RING BROKEN)'.
**14.05.1990** Service defect: 'TS - ENGINE LINER - WORN LINER - NO.9 ASSEMBLY CHANGED/OUT. - NEW BOTTOM INSERT INSTALLED.'.
**22.05.1990** Service defect: 'TS - ENGINE - LOCO STORED A/C WAITING ON DECISION TO REPAIR.'.

**GM 34**

Details: locomotive 'GM 34 B' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $246610
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 02.04.1965
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 06.03.1997 | | |
| Last Lift: | 18.11.1994 | | |
| SW Service Mileage: | 42829 KM | SW Service Date: | 04.07.1995 |
| A Service Mileage: | 86214 KM | A Service Date: | 25.08.1996 |
| B Service Mileage: | 99918 KM | B Service Date: | 29.11.1996 |
| C Service Mileage: | 53604 KM | C Service Date: | 25.10.1995 |
| D Service Mileage: | 115941 KM | D Service Date: | 06.03.1997 |
| E Service Mileage: | 527396 KM | A Service Date: | 19.01.1991 |
| F Service Mileage: | 1021177 KM | A Service Date: | 18.11.1994 |
| WT Service Mileage: | 987552 KM | WT Service Date: | 09.12.1993 |
| US Service Mileage: | 104665 KM | A Service Date: | 17.01.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**01.07.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - FLASH ON M/GEN.CLEANED/UP.'.
**01.07.1989** Service defect: 'UN - TRACTION MOTOR - BELLOW REPAIRS - NO.4 T/MTR.BELLOW STRAP RE-LOCATED. - PIN REPLACED.(MISSING)'.
**08.07.1989** Service defect: 'UN - BOGIE - BRAKE STRAP BROKEN - R.4 BRAKE STRAP REPLACED.'.
**08.07.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - WATER LEAK - PROTECTION UNIT REPLACED.(TELL/TALE LEAK)'.
**23.07.1989** Service defect: 'SW - BLOCKED FILTERS - FUEL IN BY/PASS - SUCTION STRAINER CLEANED(SLUDGE IN BODY) - PRIMARY & SECONDARY FILTERS REPLACED.'.
**02.08.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - WATER LEAK - PROTECTION UNIT REPLACED.(TELL/TALE LEAK)'.
**04.08.1989** Service defect: 'B - BOGIE - FLAT WHEELS - OLD BOGIES REMOVED A/C FLAT WHEELS AND NO WHEEL THICKNESS LEFT TO BE ABLE TO MACHINE AT WT. EX GM25'.
**04.08.1989** Service defect: 'B - TRACTION MOTOR - N04 TRACTION MOTOR WASHED OUT A/C OILY. ALL TRACTION MOTORS MEGGERED TO 20MOHMS.'.
**16.08.1989** Service defect: 'UN - GENERAL ACCIDENT - DRIVERS SIDE STEP STRAIGHTENED A/C LEVEL CROSSING ACCIDENT.'.

**23.08.1989** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT / INTERPOLES DOWN TO FRAME.’.
**18.10.1989** Service defect: ‘UN - BODY REPAIRS - ACCIDENT - STEP MISSING - O/SIDE STEP FITTED.(ALTERCATION WITH CATTLE)’.
**18.10.1989** Service defect: ‘UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED.’.
**10.11.1989** Service defect: ‘D - BOGIE - O/SIDE INSIDE NO.3.BRAKE STRAP REPLACED.’.
**10.11.1989** Service defect: ‘D - ENGINE - BASKET BOLTS RETORQUED.’.
**11.12.1989** Service defect: ‘UN - FUEL SYSTEM - FUEL IN BYPASS - SPIN ON AND SOCK FUEL FILTERS REPLACED.’.
**11.12.1989** Service defect: ‘UN - OVERHEATING - HOT ENGINE - ENG LOAD BANKED AND RECORDINGS RECORDED. THERMOSTATS CHECKED OK. CEILING SHEET REPOSITIONED CORRECTLY’.
**14.12.1989** Service defect: ‘A - ELECTRICAL MISC - FUSES/HOLDERS - E.T.S. - CHECKED OK.’.
**02.01.1990** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING - ENGINE ROOM LIGHT WIRING REPAIRED.’.
**02.01.1990** Service defect: ‘UN - ENGINE GOVERNOR - SHUT/DOWN LOW IDLE - POWER PAK IN GOVN REPLACED.’.
**02.01.1990** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER VALVE - REVERSE SANDER VALVE REPLACED. - SANDERS UNBLOCKED & OPERATING OK.’.
**02.01.1990** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - BROKEN CABLE - SPEEDO CABLE REPLACED.(TAKEN FROM GM16)’.
**27.01.1990** Service defect: ‘UN - BOGIE - BRAKE GEAR REPAIR - L/H NO.6 OUTER BRAKE STRAP REPLACED. - R/H NO.1 BRAKE PIN REPLACED.’.
**31.01.1990** Service defect: ‘B - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & ALL FILTERS CHANGED.’.
**01.02.1990** Service defect: ‘UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.’.
**04.03.1990** Service defect: ‘UN - OVERHEATING - HOT ENGINE - O/SIDE REAR RADIATOR FAN REPLACED A/C NOT WORKING.’.
**05.03.1990** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TRAVELS ADJUSTED A/C LONG.’.
**16.03.1990** Service defect: ‘A - RADIATOR/PRESSURISING FAN - FAN WIRING DETERIORATED - WIRING LOOM IN HATCH REPAIRED. - BOTH FANS REPLACED.(O/SIDE)’.
**16.03.1990** Service defect: ‘SW - BOGIE - WHEEL CONDITION - O/HAULED BOGIES INSTALLED.‘A‘BOGIE GM327. ‘B‘BOGIE GM328.’.
**25.03.1990** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - COUPLING REPAIR - FRONT KNUCKLE REPLACED.’.
**30.04.1990** Service defect: ‘C - ELECT - RECEPTACLES/INTER CAR COUPLINGS - REAR RECEPTACLE - D/SIDE REAR REPAIRED.’.
**15.06.1990** Service defect: ‘SW - ENGINE GOVERNOR MECHANICAL - WATER LEAK - PROTECTION UNIT REPLACED.’.
**15.06.1990** Service defect: ‘SW - FUEL SYSTEM - AIR IN BY/PASS - FUEL FILTERS & BY/PASS VALVE SEAL REPLACED.’.
**19.06.1990** Service defect: ‘A - BOGIE - BRAKE HANGER MOD.- COMPLETED. LATERAL CLEARANCE - CHECKED OK.’.
**19.06.1990** Service defect: ‘A - RADIATOR/PRESSURISING FAN - SEIZED FAN - O/SIDE NO.2 RADIATOR FAN REPLACED.’.
**03.07.1990** Service defect: ‘UN - NO FAULT FOUND - ROUGH RIDING - NO FAULT FOUND. SENT INTO TRAFFIC UNDER 80KPH SPEED RESTRICTION.’.
**13.07.1990** Service defect: ‘UN - RADIATOR/PRESSURISING FAN - NO.3 RADIATOR FAN REPLACED A/C SEIZED. NO.3 RAD. FAN CONTACTOR REPLACED A/C WELDED.’.
**08.10.1990** Service defect: ‘TS - GENERAL SHUTDOWN - LOCO SHUTDOWN-MOTOR CHECKED,OIL PRESSURE CHECKED,TESTED OK’.
**12.11.1990** Service defect: ‘UN - BOGIE - BROKEN STRAP - L.2 OUTER BRK/STRAP REPLACED.’.
**08.01.1991** Service defect: ‘UN - BOGIE - BROKEN BRAKE STRAP - R.3 BRAKE STRAP REPLACED.’.
**19.01.1991** Service defect: ‘E - BOGIE MAINTENANCE - WHEELS - L3 (5) R3 (3) L4 (3) R4 (4)’.
**19.01.1991** Service defect: ‘E - BOGIE MAINTENANCE - WHEELS - L5 (4) R5 (2) L6 (8) R6 (5)’.
**19.01.1991** Service defect: ‘E - BOGIE MAINTENANCE - WHEELS - WHEELS TO BE PROFILED L1 (4) R1 (4) L2 (0) R2 (5)’.
**19.01.1991** Service defect: ‘E - TO BE PROFILED A/C L6 (8)’.
**30.01.1991** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - ‘B’ END COUPLER CHANGED.*’.
**07.03.1991** Service defect: ‘A - 3 NO.STARTING BATTERIES TO REPLACE. (7/3)’.
**12.03.1991** Service defect: ‘SW - BATTERY MAINTENANCE - BATTERIES - 3 NO.STARTING BATTERIES REPLACED.(DEAD CELLS) - CHARGE RATE CHECKED OK.’.
**15.05.1991** Service defect: ‘TS - WHEELSLIP - WHEEL/SLIP CONTINUOUS - ON INSPECTION NO.3 T/MTR U/S. - BRUSH/HOLDER BLOWN APART,TO M.P.C.’.
**15.05.1991** Service defect: ‘TS - HAUL TO MPC FOR NO.3 T/MOTOR CHANGE.’.
**14.06.1991** Service defect: ‘B - MECHANICAL EQUIPMENT COUPLER - ‘A‘END COUPLER REPLACED.’.
**14.06.1991** Service defect: ‘B - WHEELSLIP - NO 3 T/MOTOR REPLACED,A/C WHEELSLIP.IN-71-E1-1030. OUT-65-E11130.’.
**14.06.1991** Service defect: ‘B - SUPPORT PLATE UNDER ‘A‘END AUTO -COUPLER REQUIRES’.
**14.06.1991** Service defect: ‘B - BOLTING IN PLACE,A/C NO BOLTS AVAILABLE.’.
**18.06.1991** Service defect: ‘UN - BOGIE - WICK CHECK - NO.3 WICK CHECKED OK AFTER T/MOTOR CHANGE.’.
**28.06.1991** Service defect: ‘UN - COOLING SYSTEM - LOW WATER PROTECTION DEVICE CHANGED.’.
**28.06.1991** Service defect: ‘UN - MIRROR OBS/SIDE TO REPLACE.(USED ON GM30).28/6.’.
**21.08.1991** Service defect: ‘A - LUBRICATING SYSTEM - NO 16 ROCKER OIL LINE REPLACED.’.
**23.09.1991** Service defect: ‘UN - LUBRICATING SYSTEM LOW OIL PRESSURE - LOAD REGULATOR PIPE

REPAIRED,MICHIANA FILTERS CHANGED,A/C LOW OIL PRESSURE.'.

**09.10.1991** Service defect: 'C - CONTACTOR MISCELLANEOUS - RADIATOR FAN CONTACTOR REPLACED.'.

**09.10.1991** Service defect: 'C - MAIN GENERATOR BRUSHES - 10 BRUSHES REPLACED. ONE TENSION SPRING REPLACED.'.

**09.10.1991** Service defect: 'C - TRACTION MOTOR - NO.5 T/M WASHED OUT.'.

**09.10.1991** Service defect: 'C - TRACTION MOTOR BRUSHES - 23 T/M BRUSHES REPLACED. A/C SHORT,ONE WAS CRACKED.'.

**09.10.1991** Service defect: 'C - GOVERNOR REPAIRS.'.

**10.10.1991** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - SHORT IN JUMPER CABLE REPAIRED.'.

**10.10.1991** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - GOVERNOR FAULT REPAIRED.'.

**18.11.1991** Service defect: 'UN - TRACTION MOTOR - NO 4 T/MOTOR REPLACED,A/C F LEAD BLOWN APART.'.

**23.01.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS CLEANED OUT WITH STEAM.THERMOSTATS CHECKED,ETS SET96DEGS.'.

**31.01.1992** Service defect: 'TS - ENGINE - HOT ENGINE,FANS CHECKED OK - CEILING SHEET RELOCATED'.

**19.02.1992** Service defect: 'B - GENERAL - CAB HEATER O/SIDE REPAIRED.'.

**19.02.1992** Service defect: 'B - MAIN GENERATOR FLASHOVER - M/GEN.BRUSHED OUT AND INSULATORS CLEANED.'.

**08.04.1992** Service defect: 'TS - TO PT AUGUSTA,A/C OIL COOLER CHANGE.'.

**08.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - TWO BATTERIES CHANGED.'.

**08.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE CHANGED.'.

**08.05.1992** Service defect: 'UN - VIGILANCE - VIGILANCE EQUIPMENT REPAIRED & CHECKED OK.'.

**19.05.1992** Service defect: 'UN - BOGIE - NO 6 GEARCASE REPAIRED,CRATER ADDED.'.

**19.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SQ/D VALVE ADJUSTED,A/C OVERCHARGING.TESTED OK.'.

**26.05.1992** Service defect: 'A - BATTERY MAINTENANCE - 1 BATTERY REPLACED.'.

**26.05.1992** Service defect: 'A - BOGIE - R5 SLACK ADJUSTER REPAIRED.'.

**26.05.1992** Service defect: 'A - ENGINE GOVERNOR MECHANICAL - GOVERNOR REPAIRED,A/C OIL LEAK.'.

**26.05.1992** Service defect: 'A - LUBRICATING SYSTEM - OIL LINE TO GOVERNOR REPAIRED,A/C OIL LEAK.'.

**07.07.1992** Service defect: 'UN - BOGIE - NO.5 CONCERTINA REPAIRED.'.

**07.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPLACED A/C U/S.'.

**07.07.1992** Service defect: 'UN - TRACTION MOTOR - T/M REPAIRS COMPLETED.TWO NEW BRUSH HOLDERS FITTED TO NOS.2 AND 5 T/M'.

**22.08.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L4 AND R6 WICKS REPLACED.'.

**22.08.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - ENGINE PROTECTION CHANGED AND CHECKED OK. A/C WOULD NOT SHUT ENGINE DOWN.'.

**22.08.1992** Service defect: 'B - OTHER BODY REPAIRS - OBS. SIDE MIRROR REPLACED.'.

**21.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK IN NOSE REPAIRED.'.

**29.09.1992** Service defect: 'UN - VIGILANCE - V/C NOT WORKING CORRECTLY, V/C ADJUSTED & CHECKED OK.'.

**07.11.1992** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L4 WICK + OIL CHANGED, A/C DIRTY.'.

**07.11.1992** Service defect: 'D - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**07.11.1992** Service defect: 'D - FUEL SYSTEM - FUEL SIGHT GLASSES ON TANK CLEANED & GASKETS REPLACED.'.

**07.11.1992** Service defect: 'D - MECHANICAL EQUIPMENT SANDING GEAR - R2 + R4 SANDERS UNBLOCKED.'.

**07.11.1992** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED, A/C COMMUTATOR DAMAGED.'.

**17.11.1992** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR RACKS ADJUSTED A/C GOV CHANGE ON DAY SHIFT. GEAR POSITION CHECKED AFTER RACK ADJUSTMENT & OK. LOCO NOTCHED UP'.

**15.01.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS WASHED.'.

**15.01.1993** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED FOR WHEELSLIP NO FAULT FOUND. UNABLE TO FIND ANY WATER LEAKS.INSPECTED RADIATORS,PIPES,ETC'.

**29.01.1993** Service defect: 'A - ENGINE WATER LEAK - WATER LEAK AT RAD FAN THERMO SWITCHES REPAIRED, FANS TESTED OK.'.

**19.02.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 6 WHEELSET REPLACED, A/C FLAT WHEEL. DIRECTION TESTED OK.'.

**19.02.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - DRIVERS FAN REPLACED.'.

**29.03.1993** Service defect: 'TS - AUXILLARY MACHINES - ALTERNATOR FAILURE LIGHT ON - AUX GEN FIELD FUSE REPLACED. ALT SLIP RINGS CHECKED OK. BATT CHARGE SET AT 71.5V.'.

**24.04.1993** Service defect: 'B - NO.5 TOP TRACTION MOTOR BRUSHHOLDER TO REPLACE A/C'.

**24.04.1993** Service defect: 'B - LOST ALL SPRING TENSION.'.

**27.04.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO 5 TOP BRUSH HOLDER REPLACED.'.

**03.07.1993** Service defect: 'TS - GENERAL SHUTDOWN - LOCO SHUT DOWN AND WAS UNABLE TO RE-START. ** OVERSPEED RESET AT MPC QUICK FIX.***'.

**16.07.1993** Service defect: 'A - BATTERY MAINTENANCE - BATTERY REPLACED,A/C CRACKED.'.

**16.07.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - RADIATOR CONTACTOR REPLACED,CHECKED OK.'.

**16.07.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - RADIATOR FAN REPLACED,FANS CHECKED OK.'.

**16.07.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - BRUSH HOLDER CHANGED ON NO 4 T/MOTOR.'.

**17.08.1993** Service defect: 'UN - BOGIE - L4 SLACK ADJUSTER REPLACED A/C SIEZED.'.

**17.08.1993** Service defect: 'UN - ENGINE - COMPLETE

ENGINGE INSPECTION DONE AND NO INTERNAL LEAK FOUND.'.

**17.08.1993** Service defect: 'UN - ENGINE WATER LEAK - RE:WATER LEAKS. - TWO PIPES TO THERMOSTAT BOX ON D/S RE-FLARED. TEMP. GAUGE REPLACED A/C LEAKING.'.

**30.08.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - ALL BRUSHES CHANGED IN NO 5 T/MOTOR, A/C SHORT & PULLED PIGTAILS. ALSO BRUSH HOLDER CHANGED. NO 6 T/MOTOR CLEANED &'.

**15.09.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY REPLACED - CHECKED OK.'.

**07.10.1993** Service defect: 'C - BOGIE - L3 SUPPORT BEARING SEAL REPLACED.'.

**07.10.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - FAN CONTACTORS REPLACED.'.

**07.10.1993** Service defect: 'C - GENERAL - 'A'END PACKAGE CARRIER BOLTS REPLACED.'.

**07.10.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - R3 AND L3 SANDERS UNBLOCKED.'.

**07.10.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK ON R1 B/CYLINDER ON GF REPAIRED.'.

**13.10.1993** Service defect: 'UN - TRACTION MOTOR - NO.5 T/M CHANGED A/C FLATS ON COMMUTATOR. AXLE CONDITION QUESTIONED. CHECKED OK AND NEW BEARINGS FITTED.'.

**27.10.1993** Service defect: 'TS - CONTACTOR MISCELLANEOUS - BOTH R.V.F. 5 + 14 CONTACTORS CHANGED, A/C BURNT TIPS.'.

**27.10.1993** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CLEARED CONTROL EARTH ON D/SIDE HEATER.'.

**27.10.1993** Service defect: 'TS - ELECT - RECEPTACLES/INTER CAR COUPLINGS - NO 9 & 15 PINS IN REAR RECEPTACLE TOUCHING - REPAIRED.'.

**27.10.1993** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED 'A'VALVE THROTTLE SWITCH.'.

**27.10.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT RELEASE VALVE CHANGED,A/C WRONG TYPE (A7EC) HAD BEEN USED. AIR TEST OK.'.

**27.10.1993** Service defect: 'TS - OTHER BODY REPAIRS - D/SIDE MIRROR REPLACED.'.

**27.11.1993** Service defect: 'TS - COOLING SYSTEM RADIATOR - RADIATOR SIDE SEALERS REPLACED, A/C MISSING.'.

**27.11.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - RADIATOR FAN CONTACTOR REPLACED, A/C FAN NOT WORKING - HOT ENGINE. FAN CHECKED OK.'.

**09.12.1993** Service defect: 'TS - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE REPLACED, A/C EXCESSIVE ROTARY WEAR.'.

**09.12.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLING ROD REPAIRED AND REPLACED.'.

**09.12.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - 24 B/BLOCKS REPLACED, ONE BRAKE SHOE HEAD REPLACED (L2).'.

**09.12.1993** Service defect: 'TS - VIGILANCE - VIG CONTROL TIMING ADJUSTED.'.

**20.12.1993** Service defect: 'TS - TRACTION MOTOR - NO.4 T/M HAS DAMAGED COMMUTATOR, A/C BRUSH HOLDER FELL ONTO IT. TO BE CHANGED AFTER SERVICE.'.

**06.01.1994** Service defect: 'A - BOGIE - T/M NO.5 CONCERTINA REPLACED.'.

**06.01.1994** Service defect: 'A - COOLING SYSTEM - ENGINE COOLANT CHANGED.'.

**06.01.1994** Service defect: 'A - ENGINE - TAPPET COVER SEALS REPLACED, A/C LEAKING.'.

**06.01.1994** Service defect: 'A - GENERAL - OBSERVERS SIDE FUEL SIGHT GLASS REPLACED, A/C CRACKED. OBS. SIDE BLOWER BOLTS TIGHTENED, A/C LEAKING OIL.'.

**06.01.1994** Service defect: 'A - TRACTION MOTOR - NO.4 T/M CHANGED, A/C FLATS ON COMMUTATOR.'.

**07.01.1994** Service defect: 'UN - BATTERY MAINTENANCE - REPLACED ONE BATTERY, FRONT D/SIDE.'.

**04.02.1994** Service defect: 'UN - VIGILANCE - VIGILANCE REPAIRED - PARTS REPLACED THAT WERE ORIGINALLY REMOVED, TIMING ADJUSTED. VIG OPERATION CHECKED OK.'.

**16.03.1994** Service defect: 'B - BATTERY MAINTENANCE - FRONT OBS/SIDE BATTERY REPLACED, A/C LEAKING.'.

**16.03.1994** Service defect: 'B - BOGIE - 'B'END REAR BOLSTER LATERAL SHOCK ABSORBER CHANGED, A/C EYE BROKEN.'.

**16.03.1994** Service defect: 'B - COOLING SYSTEM - ENGINE COOLANT CHANGED.'.

**16.03.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - OBS/SIDE MARKER LIGHT FITTING REPLACED.'.

**16.03.1994** Service defect: 'B - GENERAL - GRILL ON OBS/SIDE HEATER REPLACED.'.

**16.03.1994** Service defect: 'B - TRACTION MOTOR - NO.3 TOP T/M COVER REPLACED, A/C NO SEALS AND OIL LEAKING INTO MOTOR.'.

**16.03.1994** Service defect: 'B - NO.2 T/M ARMATURE TO GROUND AND GROUND RELAY TO'.

**16.03.1994** Service defect: 'B - CHECK.16/3/1994.'.

**15.06.1994** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1 AND R6 WICKS AND OILS CHANGED.'.

**15.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L3,L6 AND R3 SANDERS CLEARED.'.

**15.06.1994** Service defect: 'A - ALL T/M'S TO MONITOR, A/C SUSPECT EARTH IN NO 2 OR'.

**15.06.1994** Service defect: 'A - NO 5.'.

### GM 35

Details: locomotive 'GM 35 K' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $254190
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 07.04.1966
**Operating System:** AN

**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED 05.08.91
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 03.10.1991 | | |
| Last Lift: | 15.01.1985 | | |
| SW Service Mileage: | 956373 KM | SW Service Date: | 03.10.1991 |
| A Service Mileage: | 915558 KM | A Service Date: | 28.05.1991 |
| B Service Mileage: | 953449 KM | B Service Date: | 31.07.1991 |
| C Service Mileage: | 729402 KM | C Service Date: | 18.07.1990 |
| D Service Mileage: | 887921 KM | D Service Date: | 26.03.1991 |
| E Service Mileage: | 640151 KM | A Service Date: | 13.02.1990 |
| F Service Mileage: | 476030 KM | A Service Date: | 15.01.1985 |
| WT Service Mileage: | 805712 KM | WT Service Date: | 13.11.1990 |
| US Service Mileage: | 887316 KM | A Service Date: | 22.03.1991 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**15.07.1989** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FAULTY GAUGE - PULL METER REPLACED.'.

**15.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CLOCK FAULTY - SPEEDO MECHANISM REPLACED.'.

**15.07.1989** Service defect: 'UN - NO FAULT FOUND - LOCO USING COOLING WATER - LOCO CHECKED,NO LEAK FOUND.'.

**29.07.1989** Service defect: 'UN - ENGINE WATER LEAK - JUMPER/LINE LEAK - NO.7 JUMPER/LINE & GASKET REPLACED.'.

**29.07.1989** Service defect: 'UN - ENGINE WATER LEAK - USING COOLING WATER - NO.11&13 HEAD/GASKETS & HEADS CHANGED.(GROMMET LEAK)'.

**07.08.1989** Service defect: 'C - FUEL SYSTEM INJECTORS - NO 15 INJECTOR REPLACED -A/C LEAKING'.

**11.08.1989** Service defect: 'TS - NO FAULT FOUND - WHEELSLIP - ALL CONTACTORS AND MAIN GENERATOR CHECKED OK. TRANSITION CHECKED OK.'.

**05.09.1989** Service defect: 'A - ELECTRICAL MISCELLANEOUS - PULL METER REPLACED A/C FAULTY.'.

**05.09.1989** Service defect: 'A - GENERAL - RADIO REPAIRED A/C CHANNEL 5. FAULTY.'.

**07.09.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT'.

**07.11.1989** Service defect: 'UN - BROKEN VALVE - NO.6.HEAD & PISTON REPLACED A/C DROPPED VALVE.'.

**16.11.1989** Service defect: 'A - ENGINE - BASKET BOLTS RETORQUED.'.

**21.12.1989** Service defect: 'UN - BROKEN VALVE - BROKEN VALVE - NO.5 CYLINDER/HEAD REPLACED.'.

**21.12.1989** Service defect: 'UN - ENGINE - BLOWN TEST/COCKS - NO.13,15&16 REPLACED.'.

**30.12.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NO STARTING POWER - BATTERIES TOPPED/UP A/C DRY.(20 GALLS.) - CHARGING RATE CHECKED OK.'.

**08.02.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION -'.

**16.02.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - BOOKED FRO GROUND RELAY.MAIN GEN & TM'S CHECKED,NO FAULT FOUND.'.

**19.02.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSH/HOLDER CABLE REPAIRED NO.5 T/MTR. - (CABLE TRACKING TO FRAME)'.

**09.03.1990** Service defect: 'TS - BLOCKED FILTERS - SHUTTING DOWN - MICHIANA OIL FILTERS REPLACED A/C BLOCKED.'.

**20.03.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.2 T/MOTOR REPLACED.(FIELDS TO FRAME)'.

**30.03.1990** Service defect: 'UN - BOGIE - NO6 & 4 BRAKE SPREADER BARS REPLACED'.

**30.03.1990** Service defect: 'UN - NO 6 GEAR CASE CRACKED'.

**03.04.1990** Service defect: 'UN - BOGIE - G/CASE CRACKED - NO.6 G/CASE'.

**27.04.1990** Service defect: 'TS - ENGINE PISTON - FOREIGN NOISE IN ENGINE - NO.8 ASSY.CHANGED EXCEPT ROD. (GENERATOR END) - (PISTON HOLED)'.

**18.05.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.4 T/MOTOR REPLACED.(ARMATURE HOLED)'.

**01.06.1990** Service defect: 'A - BATTERY MAINTENANCE - BATTERY CHANGE - COMPLETE SET OF BATTERIES REPLACED WITH APOLLO BATTERIES A/C 5 NO. DEAD CELLS.'.

**18.07.1990** Service defect: 'C - NO FAULT FOUND - WHEEL/SLIP -'.

**15.08.1990** Service defect: 'UN - BOGIE - BROKEN STRAPS - D/SIDE NO.3,4&6 INNER BRAKE STRAPS REPLACED.'.

**15.08.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - R.4 THRUST BLOCK & ALL RESILIANTS REPLACED. - 4 NO.STABILISERS REPLACED.('B'BOGIE)'.

**30.08.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - BOOKED FOR GROUND RELAYS.RETURNED TO PT AUGUSTA FOR REPAIRS.'.

**30.08.1990** Service defect: 'TS - HAULED TO PT AUGUSTA FOR REPAIR'.

**31.08.1990** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - - OTHER T/MOTORS CHECKED OK. - M/GEN & CONTACTORS CHECKED OK.'.

**31.08.1990** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BROKEN BRUSH IN NO.1 T/MOTOR REPLACED. - (BRUSH HITTING FRAME OF T/MOTOR)'.

**01.10.1990** Service defect: 'TS - BROKEN VALVE - DROPPED VALVE - NO.7 HEAD,PISTON & LINER REPLACED. - NO.16 HEAD REPLACED,NO.15 INJECTOR REPLACED.'.

**05.10.1990** Service defect: 'UN - BOGIE - LOCO BOOKED FOR ROUGH RIDING,BOGIES CHECKED OK IN DEPOT.'.

**05.10.1990** Service defect: 'UN - A END AUTO COUPLER LEVER BROKEN, ROUGH RIDING'.

**09.10.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - FRONT TRIP LEVER REPLACED A/C MISSING'.

**08.11.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP OPERATION - R.9 RESISTOR REPLACED.(OPEN/CIRCUITED'.

**12.11.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - TO WTM FOR PROFILE.'.

**19.11.1990** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE WEAR READING - RECORDED.'.

**19.11.1990** Service defect: 'UN - TRACTION MOTOR -

COMM.CHECK - NO.3 T/MOTOR COMM CHECKED OK A/C FLATS.'.

**29.11.1990** Service defect: 'TS - TRACTION MOTOR - ARMATURE TO FRAME - NO.4 T/MOTOR REPLACED.'.

**03.12.1990** Service defect: 'UN - TRACTION MOTOR EARTH - ARMATURE READING ZERO - NO.4 T/MOTOR REPLACED.'.

**26.01.1991** Service defect: 'UN - OTHER BODY REPAIRS - DOOR HINGES REPLACED'.

**21.02.1991** Service defect: 'UN - NO FAULT FOUND - VIGILANCE PROBLEM - OPERATION CHECKED IN DEPOT,NOT FAULTED. (LOCO COUPLED TO 'A'END OF EL56 WHICH HAD CONTROL HOSES X'D)'.

**22.03.1991** Service defect: 'UN - BOGIE - 'B' BOGIE SHOCKER REPLACED R.H.S.A/C BROKEN.'.

**26.03.1991** Service defect: 'D - PEE PIPE - NO13 PEE PIPE CHANGED,A/C BROKEN.'.

**16.05.1991** Service defect: 'TS - GENERAL - LHS (OBS)BLOWER REPLACED.DRIVERS HEATER ELEMENT REPLACED.'.

**28.05.1991** Service defect: 'A - ELECTRICAL MISC. AC/DC RELAYS - N.V.R. REPLACED,A/C COIL SHORTED.'.

**31.07.1991** Service defect: 'B - 6 PISTONS TO BE CHECKED, A/C U/S.31/7.'.

**03.10.1991** Service defect: 'SW - LOCO STORED.'.

### GM 36

Details: locomotive 'GM 36 T' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $254190
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 10.05.1966
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**Remarks:** STORED PUG 14.02.94
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 26.11.1985 | | |
| SW Service Mileage: | 864762 KM | SW Service Date: | 25.02.1991 |
| A Service Mileage: | 313491 KM | A Service Date: | 31.08.1993 |
| B Service Mileage: | 373447 KM | B Service Date: | 18.11.1993 |
| C Service Mileage: | 961704 KM | C Service Date: | 31.07.1991 |
| D Service Mileage: | 136011 KM | D Service Date: | 22.09.1992 |
| E Service Mileage: | 830113 KM | A Service Date: | 11.12.1990 |
| F Service Mileage: | 686798 KM | A Service Date: | 26.11.1985 |
| WT Service Mileage: | 211839 KM | WT Service Date: | 21.03.1993 |
| US Service Mileage: | 400964 KM | A Service Date: | 20.09.1993 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**07.07.1989** Service defect: 'UN - NO FAULT FOUND - RVR 3-6 CONTACTOR - LOCO NOT FAULTED IN DEPOT. CHATTERING IN REV.'.

**29.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - OIL & MICHIANA FILTERS CHANGED.'.

**15.08.1989** Service defect: 'A - BLOCKED FILTERS - BLOCKED FILTERS - ENG BLOWER AIR FILTERS REPLACED AND ALSO PRESSURISING FAN FILTERS.'.

**04.09.1989** Service defect: 'UN - BOGIE - L4 INNER BRAKE STRAP REPLACED A/C BROKEN.'.

**21.09.1989** Service defect: 'B - BOGIE - BROKEN STRAP - R.4 OUTER BRAKE STRAP REPLACED. SHOCK/ABSORBER - R.4 SHOCK/ABSORBER REPLACED.'.

**03.11.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - MICRO SWITCH REPLACED A/C NO POWER.'.

**07.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - VIGILANCE CHECKED OK.'.

**25.11.1989** Service defect: 'UN - BOGIE - BRAKE STRAPS - O/SIDE NO.4 STRAPS REPLACED.(INNER BROKEN) (OUTER BENT)'.

**25.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - PIPE BENT - O/SIDE NO.4 SANDER PIPE REPLACED.'.

**22.12.1989** Service defect: 'UN - BOGIE - CRACKED WEAR PLATE - R.6 WEAR PLATE WELDED.'.

**22.12.1989** Service defect: 'UN - ENGINE - BLOWN TEST/COCK - NO.13 TEST/COCK ASSY REPLACED.'.

**12.01.1990** Service defect: 'UN - BOGIE - BOGIE CHANGE - O/HAULED BOGIES INSTALLED.('A'BOGIE GM201) ('B'BOGIE GM344)'.

**07.02.1990** Service defect: 'B - RADIATOR/PRESSURISING FAN - FAN ROTATION - NO.1 RADIATOR FAN ROTATION CORRECTED.'.

**02.04.1990** Service defect: 'UN - OVERHEATING - FAN CONTACTOR FAULTY.RETURNED TO PT AUGUSTA FOR REPAIRS.'.

**03.04.1990** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTOR - RADIATOR FAN CONTACTOR REPLACED.'.

**03.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - MIRRORS U/S - BOTH MIRRORS REPLACED.'.

**03.04.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT - D/SIDE HAND PIECE REPLACED.'.

**17.04.1990** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - NOISY BLOWER - L/H BLOWER REPLACED.'.

**01.06.1990** Service defect: 'A - BOGIE - BRAKE HANGER REPAIR -'.

**06.06.1990** Service defect: 'SW - OTHER BODY REPAIRS - MODIFICATION - CONCERTINA MOD.COMPLETED.'.

**10.07.1990** Service defect: 'UN - BOGIE - SHOCK ABSORBER RUBBERS REPLACED A/C WORN.'.

**10.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES. TAP REPAIRED A/C LEAKING.'.

**12.07.1990** Service defect: 'B - BATTERY MAINTENANCE - SIX STARTING BATTERIES REPLACED A/C OPEN CIRCUIT.'.

**12.07.1990** Service defect: 'B - BOGIE - LATERAL CLEARANCE - CHECKED OK.'.

**11.08.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - O/SIDE NO.4 SHOCK/ABSORBER REPLACED. - ALL

SHOCK/ABSORBER RUBBERS REPLACED.'.

**17.08.1990** Service defect: 'UN - NO.6 WHEEL CHANGE A/C BAD FLAT (17/8)'.

**22.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO.6 WHEEL WELDED - NO.6 WHEEL SET REPLACED. (BAD FLAT)'.

**16.09.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING BOOKED - SHOCK/ABSORBERS & STABILISERS OK.'.

**24.09.1990** Service defect: 'UN - BOGIE - BROKEN STRAPS - L.1 BRAKE STRAPS REPLACED.'.

**14.10.1990** Service defect: 'UN - BOGIE - ROUGH RIDING -ALL RESILIENTS CHANGED,RUBBERS REPLACED,LUBED.'.

**03.11.1990** Service defect: 'UN - BROKEN PIPE - SHUTTING/DOWN - TOP DECK OIL/PIPE REPAIRED.(FRACTURED)'.

**03.12.1990** Service defect: 'UN - BOGIE - BRAKE GEAR BROKEN - L.1&L.3 INNER BRAKE STRAPS REPLACED. - L.3 SANDER GEAR & BRAKE STRAP PIN REPL'D'.

**11.12.1990** Service defect: 'E - RADIATOR/PRESSURISING FAN - NOISY BEARING - D/SIDE REAR FAN REPLACED.'.

**20.12.1990** Service defect: 'FA - TRACTION MOTOR BRUSHES - NO. 3 TRACTION MOTOR CHANGED A/C COMM END BEARING FAILURE.'.

**12.02.1991** Service defect: 'A - TO BE PROFILED A/C L.1 (8+),L.2(8),L.4(9). (12/2).'.

**28.02.1991** Service defect: 'TS - TRACTION MOTOR EARTH - NO4 TM DISCONNEECTED A/C DOWN,MEGGERED OK.RECONNECTED ,LOCO MEGGERED OK.A/C EARTH ON POWER'.

**24.05.1991** Service defect: 'TS - TRACTION MOTOR - ARMATURE TO EARTH - NO.6 T/MOTOR REPLACED.'.

**07.06.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - NO 9,11,12 & 15 TEST COCKS CHANGED,A/C LEAKING.'.

**07.06.1991** Service defect: 'A - PEE PIPE - NO 14 & 16 PEE PIPES CHANGED,A/C BROKEN.'.

**07.06.1991** Service defect: 'A - TRACTION MOTOR - NO 5 T/M VERY DIRTY,A/C TOP COVER MISSING,REPLACED.'.

**07.06.1991** Service defect: 'A - NO 9 PISTON TO BE CHANGED,A/C EXCESSIVE RING GAP.'.

**07.06.1991** Service defect: 'A - 11/6.'.

**31.07.1991** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R5 WICK REPLACED.'.

**31.07.1991** Service defect: 'C - ENGINE PISTON - NO 9 PISTON REPLACED, A/C EXCESSIVE RING GAP.'.

**31.07.1991** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SAFETY VALVE REPLACED, A/C BLOWING.'.

**31.07.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - OBS/SIDE 'A' END MAIN RES HOSE REPLACED.''.

**29.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END YOKE REPLACED, A/C CRACKED.NEW COUPLING,NEW PACKAGE.'.

**30.09.1991** Service defect: 'A - ENGINE PISTON - PISTON DISINTERGRATED,POWER ASSEMBLY REPLACED.'.

**30.09.1991** Service defect: 'A - NO'15&10 WET PISTON TOPS.CHROME ON ALL LINERS'.

**30.09.1991** Service defect: 'A - DAMAGED AROUND PORTS.'.

**03.10.1991** Service defect: 'UN - BOGIE - BOGIES SWAPPED WITH GM 35.'.

**03.10.1991** Service defect: 'UN - INSULATION WORN - 'F'CABLE ON NO.4 T/M REINSULATED.'.

**13.12.1991** Service defect: 'UN - OTHER BODY REPAIRS - STEPS REPLACED,A/C REMOVED FOR GM 27.'.

**13.12.1991** Service defect: 'UN - TRACTION MOTOR - NO 6 T/MOTOR & WHEELS REPLACED.'.

**02.01.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - 7 BRUSHES CHANGED. A/C BROKEN PIG TAILS & CRACKED BRUSHES.'.

**02.01.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.2 &5 T/MS HAVE VERY SLIGHT FLASHES.'.

**17.01.1992** Service defect: 'UN - ENGINE - 2,5,6 & 9 MAIN BEARINGS REINSTALLED.OIL FILLED UP.'.

**17.01.1992** Service defect: 'UN - FUEL SYSTEM - CHECKED FOR FUEL LEAK,NO FAULT FOUND.'.

**19.02.1992** Service defect: 'B - ENGINE PISTON - NOS.10,12.PISTONS AND LINERS CHANGED.NOISY VALVE BRIDGE ON 4CHANGED.'.

**19.02.1992** Service defect: 'B - MAIN GENERATOR BRUSHES - M/GEN.HAD COPPER DRAG.WIRE BRUSHED OK. PINS REPLACED IN BOTH REAR JUMPER RECEPTABLES.'.

**19.02.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - BRUSH HOLDERS TOP 5,AND BOTT.4.REPLACED,ANDBOTT 2 ADJUSTED. 2 ARC CHUTES AND CLIPS REPLACED A/C BROKEN.'.

**27.04.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - BURNT CONTACTS ON RVR36 CAUSING WHEELSLIPS - CLEANED AND CHECKED OK'.

**14.05.1992** Service defect: 'TS - TRACTION MOTOR - NO 5 T/MOTOR REPLACED,A/C GR'S.T/M IN-54E-163.OUT-51A-377. LOCO MOVENENT TESTED OK.'.

**26.06.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1,L2,L3R1,R2,R5 WICKS CHANGED.'.

**26.06.1992** Service defect: 'B - FUEL SYSTEM INJECTORS - NOS 9,10,11&15 INJECTORS CHANGED.'.

**26.06.1992** Service defect: 'B - TO BE SENT TO WTM.'.

**22.08.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FEILD SHUNT CONTACTOR REPLACED EX GM25.'.

**22.08.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - G/R SWITCH REPLACED A/C NOT RESETTING.'.

**22.08.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO.3 T/M BREAKING NUMEROUS BRUSHES. NO.2 AND NO.5 T/M CLEANED A/C FLASHOVERS.'.

**22.08.1992** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GENERATOR VEED OUT AND BLOWN OUT. MAIN GEN. PAINTED AND CURED.'.

**22.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - D/SIDE REAR BRAKE CYL REPLACED.'.

**22.09.1992** Service defect: 'D - EXHAUST - 4 EXHAUST BOLTS REPLACED ON STACK ABOVE NOS 1 & 6 CYLS, A/C STRIPPED.'.

**22.09.1992** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - COPPER PIPE ON FRONT OF LOCO REPLACED,A/C SQUASHED.'.

**22.09.1992** Service defect: 'D - PEE PIPE - NO 4 PEE PIPE CHANGED, A/C LOOSE.'.

**22.09.1992** Service defect: 'D - TRACTION MOTOR BRUSHES - 4 BRUSHES CHANGED 1 IN EACH BRUSH HOLDER ALL IN THE HOLDERS CLOSEST TO THE 'V' RING, NO 3

T/M.'.

**22.09.1992** Service defect: 'D - VIGILANCE - 17LB VIG CONTROL VALVE REPLACED, A/C VIG U/S.VIG TESTED OK.'.

**20.11.1992** Service defect: 'UN - ENGINE - NO 2 ROCKER VALVE BRIDGES REPLACED.'.

**20.11.1992** Service defect: 'UN - VIGILANCE - VIG REPAIRS COMPLETED. EX GM 25 PENALTY VALVE REMOVED & PUT IN GM36. LOCO TESTED OK.'.

**15.12.1992** Service defect: 'A - BOGIE - R4 AXLE BOX WEAR PLATE REPLACED.'.

**15.12.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - WICKS L2 & R3 CHANGED. OILS CHANGED IN L2,R3,L3,L4 & R6.'.

**15.12.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - MAIN CONTACT TIPS OF POWER CONTACTOR P36 REPLACED, A/C U/S PITTED & BURNT.'.

**15.12.1992** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - A1 WIRE ON WHEELSLIP 14 RELAY FOUND OFF, CHECKED OK RECONNECTED.'.

**15.12.1992** Service defect: 'A - ENGINE - CAM SECTION FOR CYLINDERS 5 - 8 CHANGED, A/C DAMAGED. CAM POLLER CHANGED ON NO8 INJECTOR ROCKER ARM, A/C WORN. NO8'.

**15.12.1992** Service defect: 'A - NO 3 T/MOTOR TO MONITOR, A/C COMM HAS BAD FLATS.'.

**15.12.1992** Service defect: 'A - 15/12.'.

**05.01.1993** Service defect: 'TS - BATTERY MAINTENANCE - 2 BATTERIES REPLACED,LOCO STARTED OK,NO GR'S,MEGGERED OK.'.

**24.01.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - T/MS 1&3 HAVE FLATS AND ALL PIG TAILS PULLED. NO.2 HAD LOOSE PIG TAIL A/C BOLT CAME LOOSE.'.

**16.02.1993** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK AT THERMOSTAT POSITION REPAIRED.'.

**16.02.1993** Service defect: 'TS - OIL FILTERS - FILTERS REPLACED, A/C MICHIANA OIL PRESSURE HIGH.'.

**13.03.1993** Service defect: 'TS - BOGIE - 'B' BOGIE REPLACED A/C WHEELS CONDEMNED.GM 203 OUT,GM 219 IN'.

**13.03.1993** Service defect: 'TS - BOGIE MAINTENANCE - WICKS - NO 3 WICKS REPLACED'.

**13.03.1993** Service defect: 'TS - TRACTION MOTOR - NO 3 TM REPLACED A/C FLATS AND BREAKING BRUSHES CONTINUALLY.'.

**19.04.1993** Service defect: 'TS - BOGIE MAINTENANCE - WICKS - MANY WICK BOLTS FOUND LOOSE,L5 WICK REPLACED A/C NO OIL,AXLECHECKED OKAY'.

**19.04.1993** Service defect: 'TS - FUEL SYSTEM INJECTORS - NO 8 INJECTOR LOOSE HENCE REPLACED.'.

**19.04.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - R4 BRAKE CYLINDER REPLACED A/C LEAKING AIR.'.

**28.05.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2 WICK REPLACED A/C DIRTY.'.

**28.05.1993** Service defect: 'A - ENGINE WATER LEAK - MARMON COUPLING RUBBERS TO RADIATOR REPLACED A/C LEAKING.'.

**28.05.1993** Service defect: 'A - FUEL SYSTEM INJECTORS - NO.7 INJECTOR CHANGED A/C LEAKING.'.

**28.05.1993** Service defect: 'A - MAIN GENERATOR - 3 BRUSHES CHANGED IN MAIN GEN. A/C FRAYED PIGTAILS.'.

**28.05.1993** Service defect: 'A - OTHER BODY REPAIRS - OBS. SIDE MIRROR REPLACED. ELECTRICAL CABINET DOOR PADDING REPAIRED.'.

**28.05.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - NO.1 T/M 12 BRUSHES CONDEMNING LIMIT ALSO 12 ON NO.4 AND 12 ON NO.6.'.

**25.06.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - RV6 CABLE & 2 BUSBARS REPLACED.A/C MELTED. LOOM NEAR BUSBARSSUFFERED SUPERFICIAL DAMAGE ONLY 7 HAS BEEN RETAPED. STATIC'.

**25.06.1993** Service defect: 'TS - GENERAL - MIRROR REPLACED,D/S WINDOW WINDER REPAIRED.'.

**25.06.1993** Service defect: 'TS - MAIN GENERATOR - MAIN GEN INSPECTED OK.'.

**25.06.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - TEST COCK REPAIRED,A/C LEAKING.'.

**25.06.1993** Service defect: 'TS - TRACTION MOTOR - T/M'S CHECKED OK.'.

**01.07.1993** Service defect: 'TS - ENGINE - ENGINE BLOWERS REPLACED,A/C FIRE DAMAGE. OTHER FIRE REPAIRS COMPLETED. ENGINE ROOM CLEANED, LOCO TESTED OK.'.

**31.08.1993** Service defect: 'A - AUXILLARY MACHINES - ALL AUX GEN BRUSHES REPLACED. SLIP RING BRUSHES REPLACED. SLIP RING CLEANED UP.'.

**31.08.1993** Service defect: 'A - MECHANICAL EQUIPMENT BRAKE VALVE - VIGILANCE EMERGENCY APPLICATION VALVE REPAIRED.'.

**31.08.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED, A/C CRACKED.'.

**31.08.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - NO 15 TEST COCK REPLACED, RAN UP & TESTED OK.'.

**31.08.1993** Service defect: 'A - TRACTION MOTOR - NO 6 T/M REPLACED, A/C COMMUTATOR BURNT BADLY, BRUSHES SHORT'.

**01.09.1993** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - NO 6 WICKS CHECKED OK.'.

**01.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - LUG REPLACED ON COIL OF PTR, A/C BLOWN OFF.'.

**20.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END PACKAGE REPLACEMENT - PACKAGE REPLACED, COUPLER REPLACED, A/C U/S.'.

**18.11.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - INSULATING BLOCK ON HOT PLATE REPLACED.'.

**18.11.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER REPLACED, A/C CRACKED.'.

**18.11.1993** Service defect: 'B - OTHER BODY REPAIRS - REAR DOOR WINDOW REPLACED, A/C CRACKED.'.

**18.11.1993** Service defect: 'B - NO 9 & 15 FUEL INJECTORS TO REPLACE, A/C WET'.

**18.11.1993** Service defect: 'B - PISTONS, NIL IN STOCK.18/11.'.

**07.01.1994** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - HEAD LIGHT SWITCH REPLACED.'.

**07.01.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - ENGINE GROUN RELAYING ON START UP. BATTERIES WASHED.'.

**07.01.1994** Service defect: 'TS - RADIATOR/PRESSURISING FAN - RADIATOR FAN CHANGED, A/C SIEZED.'.

**GM 37**

Details: locomotive 'GM 37 F' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $254190
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 07.06.1966
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 12.12.1996 | | |
| Last Lift: | 25.03.1993 | | |
| SW Service Mileage: | 1112162 KM | SW Service Date: | 12.12.1996 |
| A Service Mileage: | 91918 KM | A Service Date: | 04.06.1996 |
| B Service Mileage: | 1072969 KM | B Service Date: | 06.09.1996 |
| C Service Mileage: | 1 KM | C Service Date: | 18.07.1995 |
| D Service Mileage: | 1111832 KM | D Service Date: | 07.12.1996 |
| E Service Mileage: | 0 KM | A Service Date: | 17.05.1990 |
| F Service Mileage: | 1111504 KM | A Service Date: | 25.03.1993 |
| WT Service Mileage: | 20787 KM | WT Service Date: | 13.05.1994 |
| US Service Mileage: | 1088217 KM | A Service Date: | 22.10.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**19.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WELDED WHEEL NO.4 - O/HAULED BOGIES INSTALLED. THIN WHEELS.'.
**19.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - - BRK/CYL. PRESSURE 310 KPA. AIR LEAK - FRONT BRK/PIPE COCK REPLACED.(LEAKING)'.
**19.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - * BRK/PIPE LEAKAGE NIL AFTER COCK CHANGE.BEFORE 75 KPA/MIN.*FEED VALVE CHECK - 500 KPA - 20 KPA.,490 KPA RECORDED.'.
**19.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST - BRK/PIPE PRESSURE 495 KPA. - MAIN/RES PRESSURE 112-124 PSI.'.
**19.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - RISE IN BRK/PIPE GAUGE/MIN.- NIL. MAX BRK/PIPE DROP - 2 P.S.I.BEFORE IT RE-CHARGED.'.
**19.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SINGLE UNIT TEST - OPERATION CHECKED NOT FAULTED. MULTIPLE UNIT TEST - COUPLED TO DL39 OPERATION CHECKED OK.'.
**31.07.1989** Service defect: 'UN - NO FAULT FOUND - BOOKING ON FLAT WHEELS - WHEELS INSPECTED,SLIGHT FLATS. - LOCO RELEASED TO TRAFFIC.'.
**14.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOOKED FOR FLAT WHEELS.CHECKED OK IN DEPOT.'.
**03.09.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - BKP1 CONTACTOR ECONOMY RESISTOR REPLACED A/C CHATTERING. CHECKED IN POWER & DYNAMIC OK.'.
**17.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP/GOVN DISCHARGING - COMP/GOVN STRIPPED/CLEANED & RESET. BRAKE HANDLE - IND/BRAKE HANDLE REPLACED.'.
**23.09.1989** Service defect: 'UN - BROKEN PIPE - CRACKED FLARE - COMPRESSOR GOVN.PIPE REPLACED.'.
**23.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - FAULTY VALVE - COMPRESSOR/SAFETY VALVE REPLACED & SET/UP.'.
**02.11.1989** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - GFR LUBRICATED A/C STICKY.LOCO TESTED IN POWER OK,A/C LOSS OF POWER.'.
**22.11.1989** Service defect: 'A - ALTERNATOR - GROUND RELAYS - MAIN GENERATOR CLEANED UP,A/C SLIGHT FLASHING.'.
**22.11.1989** Service defect: 'A - BOGIE - ROUGH RIDING - 3 NO.SNUBBERS CHECKED OK,ON O/SIDE FRONT BOGIE.'.
**22.11.1989** Service defect: 'A - ENGINE - BASKET BOLTS RETORQUED.'.
**22.11.1989** Service defect: 'A - TRACTION MOTOR - TRACTION MOTORS OK,ALL T/MOTORS MEGGERED OK,10 M/OHMS. TRANSITION TESTED OK.'.
**28.11.1989** Service defect: 'UN - VIGILANCE - NO WARNING LIGHT - VIGILANCE FLASHER UNIT REPLACED.'.
**21.12.1989** Service defect: 'UN - BLOCKED FILTERS - BLOCKED FILTERS - ENG BLOWER FILTERS REPLACED A/C PULLING 25' VACUUM.'.
**21.12.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT - BL.1 WIRE & NO.1 PIN IN GOVN.PLUG REPAIRED.'.
**05.01.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - HOLED RADIATOR - D/SIDE NO.4 RADIATOR REPLACED.'.
**09.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**02.02.1990** Service defect: 'TS - BROKEN PIPE - CRACKED FLARE - COMPRESSOR GOVN.PIPE RE-FLARED.'.
**03.04.1990** Service defect: 'UN - BOGIE - STABALISER -'.
**07.04.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - M/GENERATOR CLEANED/UP.(MEGG.7) - TEST RUN OK AFTER CLEAN/UP.'.
**17.04.1990** Service defect: 'TS - COOLING SYSTEM RADIATOR - HOLED RADIATOR - D/SIDE NO.2 RADIATOR REPLACED. - (H.R.JOINT ON FAN PLUG,MOLTEN ALUM.HOLED RADIATOR)'.
**17.04.1990** Service defect: 'TS - RADIATOR/PRESSURISING FAN - H.R.JOINT - D/SIDE NO.1 FAN PLUG & LOOM REPLACED. - D/SIDE NO.2 RAD/FAN LOOM REPLACED.'.
**22.04.1990** Service defect: 'TS - ENGINE CYLINDER HEADS -

SHEARED STUDS - NO.14 HEAD REPLACED. (ROCKER STUDS)'.

**22.04.1990** Service defect: 'TS - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & ALL OIL FILTERS CHANGED.'.

**17.05.1990** Service defect: 'E - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - NO.22 WIRE INSTALLED.'.

**23.05.1990** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - MODIFICATION - ELECTRICAL MOD.COMPLETED.'.

**06.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - VALVES - INDEPENDANT RELEASE & INDEPENDANT VALVE CHANGED. - BRAKE RELEASE TESTED FOR 1 HOUR'.

**06.06.1990** Service defect: 'UN - TO BE PROFILED A/C FLATS NO.1 WHEEL. (6/6)'.

**12.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE NOT RELEASING - DISTRIBUTING VALVE CHANGED. - LOCO CHECKED OK.'.

**28.06.1990** Service defect: 'TS - BOGIE - DERAILMENT CHECK - COMPLETED,NO DAMAGE EVIDENT.'.

**28.06.1990** Service defect: 'TS - NO FAULT FOUND - LOSING POWER - LOCO CHECKED IN DEPOT,NOT FAULTED.'.

**01.08.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - SLIGHT FLASH ON M/GEN.CLEANED/UP. PULLED PIG/TAILS - NO.4 T/MOTOR BRUSHES REPLACED.'.

**01.08.1990** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDER HOSES - R.1&R.2 REPLACED.'.

**08.08.1990** Service defect: 'B - TO BE PROFILED A/C L.1&R.4 FLANGES (8). (8/8)'.

**31.08.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - OPERATION & REGULATION CHECKED OK.'.

**20.09.1990** Service defect: 'UN - TRACTION MOTOR - FIELD WEDGING LOOSE - T/MOTOR CHANGE PETERBOROROUGH.'.

**20.09.1990** Service defect: 'UN - NO.4 T/MOTOR CHANGE A/C FIELD WEDGING LOOSE.(20/9)'.

**21.09.1990** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.4 T/MOTOR REPLACED. - (FIELD WINDINGS LOOSE)'.

**15.10.1990** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMP FAILED-REPLACED'.

**06.11.1990** Service defect: 'C - OTHER BODY REPAIRS - O/SIDE DESK - REMOVED.'.

**05.01.1991** Service defect: 'UN - BOGIE - SHOCKIES U/S - 4 NO.SHOCK/ABSORBERS REPLACED ON REAR BOGIE.'.

**18.02.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR - CHANGED/OUT.'.

**18.02.1991** Service defect: 'TS - ENGINE WATER LEAK - LOST ALL WATER - MARMON RUBBERS REPL'D ON PIPE ABOVE O/SPEED'.

**20.03.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - WATER LEAK - SEALS REPLACED ON SHUT/DOWN DEVICE.'.

**06.05.1991** Service defect: 'TS - BOGIE - * FAILED ON TRAIN NO.3220 & DETATCHED AT STIRLING NORTH *'.

**06.05.1991** Service defect: 'TS - BOGIE - SMOKE FROM AXLE/BOX - 3 NO WHEEL/SETS CHANGED 'A'BOGIE. - L.4 CLEANED/UP A/C PICK/UP.'.

**15.05.1991** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - WHEEL PROFILE - COMPLETED 'A'BOGIE A/C 86MM WHEELS,COMPARED - TO 'B'BOGIE 67MM WHEELS.'.

**16.05.1991** Service defect: 'SW - BOGIE - AXLE END - CHECKED OK A/C PREVIOUS REPAIRS. (L.4)'.

**24.05.1991** Service defect: 'TW - BOGIE - AXLE BOX LUBE - COMPLETED.'.

**24.07.1991** Service defect: 'B - CONTACTOR INTERLOCKS - RVR2 &RVR36 CONTACTORS REPLACED, A/C BURNT & WORN CONTACT TIPS.'.

**24.07.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - REPLACED CONTACTS TIPS, P14,P2,5.S23,P36.'.

**24.07.1991** Service defect: 'B - MAIN GENERATOR FLASHOVER - 30 MAIN GEN BRUSHES CHANGED, A/C FLASHOVER.M/G CLEANED & PAINTED.'.

**24.07.1991** Service defect: 'B - LUBRICATE REVERSER.24/7.'.

**03.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - B END YOKE CRACKED.REPLACED YOKE AND PACKAGE'.

**27.09.1991** Service defect: 'UN - ENGINE PROTECTION - ENGINE PROTECTION UNIT REPLACED,A/C U/S.'.

**13.12.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CUT OUT SWITCH PLACED BACK IN.'.

**13.12.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - T/MOTOR'S, GRIDS, BLOWER MOTOR,GEN & CONTACTORS CHECKED OK. MEGGER P= 5MOHMS,A/C GR'S.'.

**28.01.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR HEAT SHIELD REPLACED.'.

**28.01.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 15 CYL HEAD REMOVED & HEAD GASKET REPLACED,A/C GROMMET LEAK.'.

**28.01.1992** Service defect: 'UN - ENGINE LINER - NO 15 LINER REPLACED,A/C CRACKED.'.

**28.01.1992** Service defect: 'UN - DYN/BRAKE INOPERATIVE,A/C BLOWN GRID D/SIDE.18/1.'.

**06.02.1992** Service defect: 'B - ENGINE AIR FILTERS - ENGINE AIR INTAKE FILTERS REPLACED,A/C VACUUM GAUGE READING IN RED.'.

**06.02.1992** Service defect: 'B - MAIN GENERATOR - BRUSH HOLDER CHANGED IN MAIN GENERATOR.'.

**02.04.1992** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - L4 AND L3 WHEELS HAVE SHARP FLANGES. TO BE SENT TO WTM.'.

**02.04.1992** Service defect: 'A - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - D/SIDE DYNAMIC BRAKE GRID REPLACED.A/C BURNT OUT. D/BRAKE CUT-OUT SWITCH CHECKED OK.'.

**02.04.1992** Service defect: 'A - ENGINE WATER LEAK - D/S ENGINE OUTLET WATER LEAK FIXED.'.

**02.04.1992** Service defect: 'A - OTHER BODY REPAIRS - TOP DECK COVER REPAIRED.'.

**02.04.1992** Service defect: 'A - RAD. FAN CONTACT TIPS REQUIRED.A/C NIL IN STOCK.'.

**29.04.1992** Service defect: 'UN - GENERAL - FUEL TANK DRAINED SENT TO WTM'.

**01.05.1992** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK REPAIRED.OK.'.

**23.06.1992** Service defect: 'C - NO FAULT FOUND - NO WATER LEAK FOUND.'.

**23.06.1992** Service defect: 'C - 'B' END PACKAGE TO

MONITOR.REQUIRES REPLACING'.

**23.06.1992** Service defect: 'C - SOON.NEXT SERVICE..'.

**08.07.1992** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH REPAIRED.A/C WIRE RUBBED THROUGH ON BACK OF ENGINE CONTROL SWITCHES.'.

**08.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHECKED -SUSPECT NOT ENGAGING IN SPEEDO UNIT. RECONNECTED AND FOUND OK.'.

**14.07.1992** Service defect: 'UN - GENERAL LOSS OF POWER - LOCO USED ON CONTROL TO SEE IF PROBLEM PERSISTS.A/C RECORDEDAS HAVING INTERMITTENT POWER LOSS.'.

**23.09.1992** Service defect: 'A - BOGIE - SLACK ADJUSTER CHANGED A/C SEIZED. 15 BRAKE BLOCKS CHANGED.'.

**23.09.1992** Service defect: 'A - GENERAL - DUMMY COUPLING 'A' END REPLACED.'.

**23.09.1992** Service defect: 'A - INSULATION WORN - T/M 4 CABLE INSULATION FOUND CRACKED OFF ON 'A & AA' LEADS CABLES WERE REINSULATION IN BARE AREAS. T/M 6 INSULATION'.

**23.09.1992** Service defect: 'A - NO 3 CYLINDER INTAKE PORTS TO MONITOR.23/9.'.

**26.10.1992** Service defect: 'TS - COOLING SYSTEM WATER PUMP - WATER PUMP CHANGED & CHECKED OK FOR WATER LEAKS.'.

**26.10.1992** Service defect: 'TS - DYNAMIC BRAKE - DYN/BRAKE CABLES FIXED UP,A/C GR'S.'.

**18.11.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - 8 BRUSHES CHANGED IN NO 1 TRACTION MOTOR A/C GROUND RELAYS LOOSE PIG TAILS'.

**18.12.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - NO 6 WHEELSET CHANGED, A/C FLAT WHEEL.'.

**18.12.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - 5 WICKS CHANGED.'.

**18.12.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - LEAD REPAIRED ON RAD FAN CONTACTOR.'.

**18.12.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NO 15 CYLINDER HEAD REPLACED, A/C LEAKING PLUG ON HEAD.'.

**18.12.1992** Service defect: 'B - GENERAL - DRIVERS MIRROR REPLACED.'.

**18.12.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE CHANGED.'.

**18.12.1992** Service defect: 'B - NO 11 PISTON TO CHANGE NEXT SERVICE.18/12.'.

**24.03.1993** Service defect: 'TS - SENT TO PT AUGUSTA FOR O/HAUL.24/3.'.

**11.03.1994** Service defect: 'UN - BOGIE - GM37 LIFTED AND PLACED ON GM22 BOGIES. HAULED TO PT. AUG.'.

**11.05.1994** Service defect: 'TS - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE REPLACED, A/C EXCESSIVE EQUALISING PISTON LEAKAGE.'.

**11.05.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE LEAK REPAIRED. D/S MAIN RES COCK REPLACED, A/C BLOWING.'.

**28.05.1994** Service defect: 'A - DYN CUT OUT, WAITING FOR BKBY CONTACTOR TO BE'.

**28.05.1994** Service defect: 'A - REPLACED.28/5.'.

**14.06.1994** Service defect: 'TS - TRACTION MOTOR - T/MOTOR INSPECTION COMPLETED. LOCO OK FOR TRAFFIC.'.

**14.06.1994** Service defect: 'TS - 5 DYN BRAKE GRIDS REQ'D, A/C BURNT. DYN BRAKE FAN'.

**14.06.1994** Service defect: 'TS - TO REPLACE, A/C SEIZED, MELTED BLADES. MINOR PAINT'.

**14.06.1994** Service defect: 'TS - ING AND CLEANING REQ'D. DYN ISOLATED AND TAGGED.14'.

**14.06.1994** Service defect: 'TS - /6.'.

### GM 38

Details: locomotive 'GM 38 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $254190
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 22.06.1966
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 28.02.1997 | | |
| Last Lift: | 18.04.1996 | | |
| SW Service Mileage: | 540797 KM | SW Service Date: | 15.11.1996 |
| A Service Mileage: | 545445 KM | A Service Date: | 29.11.1996 |
| B Service Mileage: | 582365 KM | B Service Date: | 28.02.1997 |
| C Service Mileage: | 1184553 KM | C Service Date: | 26.11.1994 |
| D Service Mileage: | 987865 KM | D Service Date: | 22.04.1993 |
| E Service Mileage: | 683333 KM | A Service Date: | 27.05.1991 |
| F Service Mileage: | 1455498 KM | A Service Date: | 18.04.1996 |
| WT Service Mileage: | 943476 KM | WT Service Date: | 04.02.1993 |
| US Service Mileage: | 550812 KM | A Service Date: | 09.12.1996 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**03.07.1989** Service defect: 'UN - EXHAUST - SMOKY EXHAUST - AIR/FILTERS REPLACED.(CLOGGED)'.

**06.07.1989** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - EXCESS SMOKE FROM EXHAUST - L/HAND BLOWER ASSEMBLY REPLACED. (BLOWER FAILURE)'.

**07.08.1989** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK - NO WATER LEAK FOUND. SIGHTGLASS TAPS FOUND TURNED OFF. TAPS TURNED ON AND WATER LEVEL IN CHECKED OK.'.

**07.08.1989** Service defect: 'TS - LUBRICATING SYSTEM - FUEL DILUTION - ENG OIL AND OIL FILTERS CHANGED.'.

**07.08.1989** Service defect: 'TS - NO FAULT FOUND - GROUND RELAYS - TRACTION MOTORS AND M/GEN CHECKED OK.'.

**07.08.1989** Service defect: 'TW - COOLING SYSTEM - WATER LEAK -NO WATER LEAK FOUND.'.
**07.08.1989** Service defect: 'TW - ELECTRICAL MISC. GROUND RELAY - GROUND RELAY -TRAC MOTORS & MAIN GEN CHECKED &REP. MEGERED OK.'.
**07.08.1989** Service defect: 'TW - LUBRICATING SYSTEM - OIL & OIL FILTERS CHANGED A/C FUEL DILUSION.'.
**11.08.1989** Service defect: 'TS - TRACTION MOTOR EARTH - NO 2. TRACTION MOTOR REPLACED A/C FIELDS DOWN TO EARTH.'.
**31.08.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - SLIGHT FLASH ON NO 5 TM CLEANED.8-MG.'.
**06.09.1989** Service defect: 'TS - CONTACTOR MISCELLANEOUS - P14 CONTACTOR & WIRING REPLACED A/C BURNT. BKB4 CONTACTOR REPLACED A/C BURNT CONTACTS,TRANSITION TESTED'.
**06.09.1989** Service defect: 'TS - DYNAMIC BRAKE - 1 NO.DYNAMIC BRAKE GRID REPLACED,A/C BURNTOUT.'.
**12.10.1989** Service defect: 'B - TO PROFILE A/C R.4 SHARP FLANGE.'.
**14.10.1989** Service defect: 'UN - BOGIE - WORN BLOCKS - ALL BLOCKS REPLACED 'B'BOGIE.'.
**14.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST - BRK/PIPE 510 KPA,MAIN RES.800-865 KPA. - BRK/CYL. 310 KPA.'.
**14.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES RELEASING USING AUTO & IND/BRK.(CHECKED) CHECKED CONTROL LOCO WORKING (LEAD) & TRAILING LOCO DEAD OK.'.
**14.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CHECK IND.RELEASE HOSES WHEN RELEASING BRAKES QUICK RELEASE.MULTIPLE UNIT TEST - COUPLED TO CL11.'.
**14.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE - CHECKED OK. BRK/PIPE - RISE IN 1 MINUTE NIL.'.
**14.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MIN/REDUCTION - BRK/PIPE LEAK NIL. - FLOW METER CHECKED OK.'.
**14.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PRESSURE - BRK/PIPE GAUGE DROP 12 KPA.'.
**14.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SINGLE UNIT TEST - WHEN IND.BRK IS ON,ALL CONTROL HOSES (4) AIR IN CONTROL PIPE WHEN BRAKES APPLIED.(CHECKED)'.
**14.10.1989** Service defect: 'UN - NO FAULT FOUND - DRAGGING BRAKES - BRAKE TEST COMPLETED,OPERATION NOT FAULTED'.
**30.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FLOW METER REPLACED A/C FAULTY.'.
**05.11.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED & DASH LIGHTS REPAIRED.'.
**05.11.1989** Service defect: 'UN - OVERHEATING - NO.1.THERMOSTAT CHANGED A/C ENGINE OVERHEATING.'.
**27.11.1989** Service defect: 'A - ENGINE - BASKET BOLTS - RETORQUED.'.
**15.01.1990** Service defect: 'UN - CONTACTOR INTERLOCKS - INTERMITTANT POWER - G-H INT/LOCK ON P2-5 CONTACTOR REPLACED'.
**15.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**25.01.1990** Service defect: 'UN - VIGILANCE - VIGILANCE - REPAIRED.'.
**16.02.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO INSTALLATION COMPLETED'.
**02.03.1990** Service defect: 'D - ENGINE PISTON - NO'S 10,11,12 PISTONS REPLACED A/C RING CLEARANCE.'.
**02.03.1990** Service defect: 'D - MAIN GENERATOR - MAIN GENERATOR COWLING REWELDED A/C CRACKED WELDS.'.
**14.03.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTOR - NO.3&6 INJECTORS REPLACED.(SPRAY FROM TEST/COCKS) - (REPORTED TO SUB/FOREMAN AS WATER-LEAK)'.
**06.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED.'.
**18.04.1990** Service defect: 'A - BOGIE - BROKEN STRAP - R.3 INNER BRAKE/STRAP REPLACED. ADJUSTER - R.3 SLACK/ADJUSTER REPLACED.(SEIZED)'.
**10.05.1990** Service defect: 'UN - OTHER BODY REPAIRS - CAB MODS - COMPLETED.'.
**30.05.1990** Service defect: 'B - BOGIE - BRAKE HANGER MOD FITTED.'.
**30.05.1990** Service defect: 'B - DYNAMIC BRAKE - DYNAMIC CABLES - RE-INSULATED.'.
**30.05.1990** Service defect: 'B - TRACTION MOTOR - CABLE REPAIRS - COMPLETED TO NO.3 T/MOTOR.'.
**30.05.1990** Service defect: 'B - TO BE PROFILED A/C FLATS ON NO.1&3 WHEELS. (30/5)'.
**05.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L1,L4,R4,R6 SANDS REPAIRED.'.
**05.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.HAND BRAKE CHAIN REPAIRED.'.
**05.06.1990** Service defect: 'UN - R5 SLACK ADJUSTER SEIZED.'.
**08.07.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CLOCK REPLACED A/C GLASS BROKEN. SPEEDO READING RESET'.
**11.07.1990** Service defect: 'UN - NO FAULT FOUND - FLAT BATTERIES - CELL TESTED O.K. BATTS LEFT TO CHARGE OVERNIGHT.'.
**27.07.1990** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - THIN WHEELS - WHEELS TO RUN/OUT.'.
**04.08.1990** Service defect: 'UN - BOGIE - 'B'BOGIE BRAKE STRAP PIN REPLACED A/C MISSING.'.
**04.08.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.VOLTAGE ADJUSTED FROM 35 TO 28V.'.
**14.08.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - O/SIDE NO.1 INNER BRAKE STRAP REPLACED. HANGER BRACKET - L.3&R.1 REPLACED.'.
**18.08.1990** Service defect: 'UN - BOGIE - 'A'END F/MANS SIDE SHOCKER REPLACED.'.
**20.08.1990** Service defect: 'TS - COOLING SYSTEM RADIATOR - LOSING WATER - D/SIDE NO.2 RADIATOR REPLACED.'.

**21.08.1990** Service defect: 'C - RADIATOR/PRESSURISING FAN - SEIZED FAN - D/SIDE NO.1 RADIATOR FAN REPLACED.'.
**21.08.1990** Service defect: 'C - BOGIE CHANGE REQUIRED A/C WHEELS. (21/8)'.
**23.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - UNABLE TO PROFILE - BOGIES EX.GM33 INSTALLED.'.
**24.08.1990** Service defect: 'UN - LUBRICATING SYSTEM LOW OIL PRESSURE - LOW OIL PRESSURE - OIL LINE IN TOP/DECK TO GOVN.REPAIRED. - (COPPER PIPE BROKEN)'.
**25.09.1990** Service defect: 'A - TO BE PROFILED A/C L.3 FLANGE (8). (25/9)'.
**04.10.1990** Service defect: 'UN - BOGIE - BRAKES ADJUSTED'.
**14.11.1990** Service defect: 'B - BOGIE - BROKEN STRAP - L.3 BRAKE STRAP REPLACED.'.
**14.11.1990** Service defect: 'B - TO PROFILE A/C R.6 FLANGE (8) (14/11)'.
**13.12.1990** Service defect: 'A - WHEEL CHECK FORTNIGHTLY A/C FLANGE WEAR.(13/12)'.
**20.12.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NEW CABLE RUBBERS FITTED NO.5 T/MOTOR.'.
**30.01.1991** Service defect: 'B - WEEKLY WHEEL CHECK A/C FLANGE WEAR.'.
**07.02.1991** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - L.T.EARTH -'.
**12.02.1991** Service defect: 'TS - BATTERY MAINTENANCE - FLAT BATTERIES - 50 OHM RESISTOR REPLACED A/C OPEN/CIRCUIT. - VOLTAGE REG.ADJUSTED,CHARGE RATE OK.'.
**28.02.1991** Service defect: 'UN - BATTERY MAINTENANCE - STARTING PROBLEM - 4 NO.STARTING BATTERIES REPLACED.'.
**05.03.1991** Service defect: 'UN - BATTERY MAINTENANCE - STARTING PROBLEM - 1 NO.STARTING BATTERY REPLACED. (DEAD CELL)'.
**08.03.1991** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - WHEELS U/S - BOGIES EX.GM26 INSTALLED.'A'BOGIE GM209. 'B'BOGIE GM208.'.
**08.03.1991** Service defect: 'UN - BATTERY MAINTENANCE - STARTING PROBLEM - 4 NO.STARTING BATTERIES REPLACED. - (NEW BATTERIES INSTALLED)'.
**13.03.1991** Service defect: 'UN - DYNAMIC BRAKE - MINOR ADJUSTMENT MADE TO DYN/BRAKE REGULATOR ON TEST RUN, A/C SET TO HIGH.'.
**12.04.1991** Service defect: 'SW - OTHER BODY REPAIRS - FUEL TANK SIDE PANELS REPLACED.'.
**15.04.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - N.V.R.REPLACED.'.
**27.05.1991** Service defect: 'E - BOGIE - RESILIENT THRUST RUBBERS CHANGED ON R1,R3,R4,R6,L1,L3,L4 L6.'.
**27.05.1991** Service defect: 'E - TRACTION MOTOR BRUSHES - 2 BOTTOM BRUSHES CHANGED IN T/MOTOR NO5.4 CHANGED IN NO4 T/M'.
**27.05.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - ENGINE ROOM LIGHT SWITCH REPLACED.'.
**27.05.1991** Service defect: 'TS - ENGINE PISTON - 7 PISTONS REPLACED,NO'S 1,2,5,7,8,9,15.'.
**27.05.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - SOUND WARNING - ALARM BELL REPAIRED.'.
**27.05.1991** Service defect: 'TS - TRACTION MOTOR EARTH - NO 2 T/MOTOR REPLACED,A/C EARTH ON ARMATURE.IN-65-F1-1069. OUT-62G-100.'.
**18.06.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - 150A AUX GEN FUSE REPLACED,A/C BLOWN.'.
**18.06.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - BN6 WIRE FOUND OFF VOLTAGE REGULATOR,REPLACED.'.
**12.07.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 14 HEAD REPLACED.'.
**12.07.1991** Service defect: 'UN - ENGINE PISTON - NO 14 PISTON REPLACED.'.
**12.07.1991** Service defect: 'UN - FUEL SYSTEM LINES - 2 FUEL LINES REPLACED, A/C LEAKING.'.
**12.07.1991** Service defect: 'UN - LUBRICATING SYSTEM - MICHIANA FILTERS CHANGED.OIL CHANGED.'.
**18.07.1991** Service defect: 'A - MAIN GENERATOR - MAIN GENERATOR BRUSHED OUT.'.
**18.07.1991** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX WELDED AT ELBOW.'.
**17.09.1991** Service defect: 'B - BOGIE - 3 AXLE BOX WEAR PLATES RE-WELDED,A/C CRACKED.'.
**17.09.1991** Service defect: 'B - COOLING SYSTEM - ENGINE WATER DRAIN PIPE WELDED,A/C BROKEN BRACKET.'.
**15.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE, YOKE, FOLLOWER BLOCK & COUPLER REPLACED. COUPLER SUPPORT PLATE WELDED,A/C CRACKED.'.
**18.11.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED,A/C U/S.'.
**18.11.1991** Service defect: 'TS - ENGINE - N0 3 & 5 POWER ASSEMBLY REPLACED,A/C PISTON U/S.'.
**18.11.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - NO 9 TEST COCK REPLACED,A/C LEAKING.'.
**29.01.1992** Service defect: 'C - ENGINE - NO 6 POWER ASSEMBLY INSTALLED & TESTED OK.'.
**16.03.1992** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - ENGINE PROTECTION UNIT REPAIRED.'.
**16.03.1992** Service defect: 'TS - TRACTION MOTOR - NO.1 T/M CHECKED O/K.-MEGGERED O/K.'.
**03.04.1992** Service defect: 'A - AUXILLARY MACHINES - ALL BRUSHES CHANGED ON AUXILLARY GEN.A/C TOO SHORT.'.
**08.05.1992** Service defect: 'TS - BATTERY MAINTENANCE - BATTERY CHARGING RECTIFIER REPLACED.'B'END CABLE RENEWED & LUG REPAIRED.'.
**04.06.1992** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED.LUBE CHECK & MOVEMENT TEST COMPLETED.BOGIE IN 'A'END,GM341-OUT,GM209.BOGIE IN 'B'END,GM342-OUT,GM'.
**09.06.1992** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - R6 WICK REPLACED,A/C DIRTY OIL.BOX CLEANED OUT & SUPPORT CAP SEALED.'.
**29.06.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - BKP1 CONTACTOR REPLACED A/C BURNT OUT.-MOVEMENT TEST IN POWER AND DYNAMIC.-STATIC TEST OK.'.
**29.06.1992** Service defect: 'UN - OTHER BODY REPAIRS -

OBSERVERS SIDE WINDOW WINDER REPLACED.EX GM 19.'.

**01.07.1992** Service defect: 'B - DYNAMIC BRAKE - DYN. BRAKE INTERLOCK MAG. VALVEREPLACED A/C HAS VOLTS BUT NOACTION.'.

**01.07.1992** Service defect: 'B - RADIATOR/PRESSURISING FAN - RADIATOR FAN PLUG AND RECEPTACLE REPLACED.-FAN DIRECTION TESTED OK.'.

**01.07.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.

**02.07.1992** Service defect: 'UN - NO FAULT FOUND - ENGINE CHECKED OK.-SUSPECT PROLONGED IDLING WAS CAUSE OF OILFROM BLOWER DRAIN.'.

**27.10.1992** Service defect: 'A - BOGIE - L1,L2,L3 L4, L5, R4 & R5 AXLE BOX WEAR PLATES REWELDED, A/C CRACKED WELDS. NO 4 GEAR CASE TIGHTENED.'.

**27.10.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.'.

**27.10.1992** Service defect: 'A - GENERAL - MIRROR REPLACED.'.

**27.10.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMP GOV CHANGE COMPLETED.'.

**27.10.1992** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L2,R2 SANDERS CLEARED.'.

**07.12.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - 'B' END M.R. COCK DRIVERS SIDE REPLACED.'.

**07.12.1992** Service defect: 'TS - TRACTION MOTOR BRUSHES - REPLACED BRUSHES IN T/M 2,3 & 4, A/C PULLED PIGTAILS & FLASHES ON COMMUTATOR. REPLACED BRUSHES IN NO 5,A/C MIXED BRUSH'.

**18.12.1992** Service defect: 'UN - GENERAL - LIGHT FITTING REPLACED IN ENGINE ROOM. SEAT COVERS ON D/SIDE SEAT REPLACED OK.'.

**12.01.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO6 W/SET INSTALED. NEW THRUST BLOCKS FITTED TO L6.'.

**22.01.1993** Service defect: 'UN - BOGIE - NO.3 AXLE BOX REPLACED. PINION SIDE.'.

**22.01.1993** Service defect: 'UN - TRACTION MOTOR - NO.3 T/M REPLACED. A/C EARTH.'.

**27.01.1993** Service defect: 'B - AUXILLARY MACHINES - BRUSH HOLDER ON AUX. GEN. CHANGED A/C BRUSH WAS NOT SITTING PROPERLY.'.

**27.01.1993** Service defect: 'B - MAIN GENERATOR - MAIN GEN. WASHED OUT A/C FULL OF OIL. ALL BRUSHES WERE THEN REPLACED.'.

**27.01.1993** Service defect: 'TS - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYNAMIC BRAKE GRID CHANGED A/C BURNT OUT.'.

**24.02.1993** Service defect: 'TS - ELECTRICAL MISC. LOOSE CONNECTIONS - WHEELSLIP WIRE TIGHTENED ON WHEELSLIP RESISTOR.'.

**24.02.1993** Service defect: 'TS - MECHANICAL EQUIPMENT - HAND BRAKE CHAIN REPLACED A/C BROKEN.'.

**24.02.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - 'A' END PACKAGE REPLACED.'.

**24.02.1993** Service defect: 'TS - TRACTION MOTOR BRUSHES - ALL TRACTION MOTOR BRUSHES REPLACED IN NO 2 TM.OIL IN NO 3 TM TO MONITOR.'.

**17.03.1993** Service defect: 'UN - NO FAULT FOUND - SUSPECT FIRE ON NO 2 T/M, UNABLE TO FAULT.PROBABLE CAUSE GRASS ON BRAKE SHOES CAUGHT FIRE.LOCO SENT ON CONTROL.'.

**01.04.1993** Service defect: 'UN - BOGIE - NO 3 NOSE SUSPENSION PINS & PLATE REPLACED.'.

**01.04.1993** Service defect: 'UN - TRACTION MOTOR - NO 6 T/M GEARCASE BOLTS TIGHTENED.'.

**12.04.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 4 WHEELSET REPLACED,A/C L4 CONDEMNED. DIRECTION TESTED OK'.

**22.04.1993** Service defect: 'D - ENGINE AIR FILTERS - BLOWER AIR FILTERS REPLACED,A/C DIRTY.'.

**22.04.1993** Service defect: 'D - LUBRICATING SYSTEM - OIL SUPPLY LINE ON REAR OF ENG REPAIRED,A/C BROKEN.'.

**22.04.1993** Service defect: 'D - MECHANICAL EQUIPMENT BRAKE VALVE - DISTRIBUTING VALVE REPLACED,EX GM 18.'.

**22.04.1993** Service defect: 'D - MECHANICAL EQUIPMENT COUPLER - 'A'END UNCOUPLING ARMS REPAIRED.'.

**05.05.1993** Service defect: 'UN - CONTACTOR INTERLOCKS - NEW BKP1 INTERLOCK BOX EXCHANGED, A/C WRONG TYPE. LOCO DIRECTION TESTED OK. POWER/DYN TIME DELAY CHECK OK.'.

**08.06.1993** Service defect: 'UN - BATTERY MAINTENANCE - 1 BATTERY REPLACED. LOCO TO TRAFFIC.'.

**13.07.1993** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - ALL MOTORS INSPECTED,SOME BRUSHES CHANGED IN ALL MOTORS,A/C TOO SHORT.'.

**13.07.1993** Service defect: 'TS - TRACTION MOTOR FLASHOVER - NO 4 MOTOR HAD SLIGHT FLASHES - FOREIGN MATERIAL REMOVED.'.

**22.07.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - R1,R2,R3,,R6,L1,L2,L3L4 & L5 WICKS REPLACED.'.

**22.07.1993** Service defect: 'A - MAIN GENERATOR - MAIN GENERATOR WASHED OUT.'.

**22.07.1993** Service defect: 'A - TRACTION MOTOR - NO 2 T/MOTOR COMMUTATOR REPAIRED,A/C DAMAGE.'.

**18.08.1993** Service defect: 'SW - BOGIE - BOGIE CHANGE COMPLETED. DIRECTION TESTED OK. L5 BRAKE CYLINDER CHANGED A/C LEAKING.'.

**26.08.1993** Service defect: 'UN - BLOCKED FILTERS - ENGINE AIR INTAKE FILTERS REPLACED A/C BLOCKED.'.

**26.08.1993** Service defect: 'UN - BOGIE - HAND BRAKE CHAIN SHORTENED. HAND BRAKE RATCHET REPAIRED ANDLUBRICATED.'.

**15.10.1993** Service defect: 'B - BLOCKED FILTERS - DYNACELL FILTERS REPLACED, A/C FILTER 'MINDER' INDICATES BLOCKED.'.

**15.10.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - NO 12 TEST COCK REPLACED.'.

**15.10.1993** Service defect: 'B - NO 15 TOP RING CHIPPED, TO MONITOR.15/10.'.

**23.11.1993** Service defect: 'TS - ENGINE - HOT ENGINES - LOCO DISCONNECTED FROM LOAD TANK, HOT ENGINE THERMOSTAT RESET.'.

**23.11.1993** Service defect: 'TS - OIL FILTERS - MICHIANA FILTERS CHANGED.'.

**11.12.1993** Service defect: 'UN - OTHER BODY REPAIRS - ROOF SEALED A/C WATER LEAKING IN AROUND WHISTLE CORD.'.

**11.12.1993** Service defect: 'UN - TRACTION MOTOR - TWO

WIRES HANGING FROM NO.6 T/M REPAIRED.'.

**18.12.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED A/C U/S.'.

**24.01.1994** Service defect: 'SW - GENERAL - TO BE PLACED INTO STORAGE AT PT AUGUSTA UNTIL FURTHER NOTICE'.

**30.12.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BKB3 CONTACTOR REPLACED.'.

**GM 39**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**GM 40**

Details: locomotive 'GM 40 T' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $249870
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 25.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 11.04.1997 | | |
| Last Lift: | 02.09.1991 | | |
| SW Service Mileage: | 742512 KM | SW Service Date: | 06.06.1996 |
| A Service Mileage: | 1031095 KM | A Service Date: | 25.02.1997 |
| B Service Mileage: | 1004277 KM | B Service Date: | 16.11.1996 |
| C Service Mileage: | 146468 KM | C Service Date: | 14.07.1992 |
| D Service Mileage: | 402973 KM | D Service Date: | 08.09.1993 |
| E Service Mileage: | 736770 KM | A Service Date: | 13.05.1996 |
| F Service Mileage: | 0 KM | A Service Date: | 02.09.1991 |
| WT Service Mileage: | 493724 KM | WT Service Date: | 03.06.1994 |
| US Service Mileage: | 1038982 KM | A Service Date: | 11.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**07.07.1989** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - BLOWN GRIDS - 3 NO. GRIDS REPLACED.(O/SIDE) -'.

**27.07.1989** Service defect: 'D - ENGINE WATER LEAK - WATER LEAK - NO.16 JUMPER/LINE & GASKET REPLACED. - (LEAKING AT GASKET)'.

**03.08.1989** Service defect: 'UN - NO FAULT FOUND - SUSPECT VALVE - COMPRESSION READINGS TAKEN ON ALL CYLINDERS. - UNABLE TO FAULT.'.

**16.08.1989** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - BRAKES DRAGGING -LOCO TO WHEEL TRUEING MACHINE (ADELAIDE).'.

**16.08.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRK/PIPE PRESSURE 500KPA. MAIN/RES PRESSURE 790-860 KPA. BRK/CYL PRESSURE 310KPA. BRK/PIPE LEAKAGE -NIL.'.

**16.08.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE CHECK - 500KPA-20KPA CHECKED OK. RISE IN BRK/PIPEGAUGE IN/MIN NIL.'.

**16.08.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - MAX BRK/PIPE DROP -2LBS,BEFORE IT RECHARGED. SINGLE UNIT TEST - OPERATION CHECKED & NOT FAULTED.'.

**16.08.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - MULTIPLE UNIT TEST - CHECKED WITH AL-21&DL43. CONTROL LOCO WORKING (YES),TRAILING LOCO DEAD (YES).'.

**22.08.1989** Service defect: 'SW - TRACTION MOTOR - NO 4 TRACTION MOTOR REPLACED A/C CABLES BURNT.'.

**12.09.1989** Service defect: 'UN - BROKEN VALVE - SUSPECT VALVE - NO.12 CYL/HEAD REPLACED.'.

**18.09.1989** Service defect: 'SW - OTHER BODY REPAIRS - WINDOW REPAIR - O/SIDE WINDOW RELOCATED IN REGULATOR.'.

**03.10.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - CONDEMNED WHEEL - NO.5 WHEEL/SET CHANGED.'.

**03.10.1989** Service defect: 'A - ENGINE CYLINDER HEADS - LOW COMPRESSION - NO.9 CYL/HEAD REPLACED.(BENT VALVE) - NO.10 ' / ' REPLACED.(BURNT VALVE)'.

**25.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - 1. NUMBER BATTERY CHANGED A/C TERMINAL BLOWN OFF.'.

**14.11.1989** Service defect: 'B - ENGINE - BASKET BOLTS RETORQUED.'.

**28.11.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES LOW - CHARGED O/NIGHT,BATTERIES PICKED/UP. - CELL TESTED BATTERIES,ALL CHECKED OK.'.

**14.12.1989** Service defect: 'SW - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - BRUSHES REPLACED IN NO.3 T/MTR.(BROKEN) - T/MOTOR CLEANED/UP & OTHERS CHECKED OK.'.

**19.12.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - O/HAULED BOGIES INSTALLED.'.

**22.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.

**09.02.1990** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - CRANK/CASE OPERATION - NO.15 ASSEMBLY REPLACED. - (LINER HOLED,CONROD & PISTON U/S)'.

**09.02.1990** Service defect: 'TS - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & ALL FILTERS CHANGED.'.

**06.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN BRK - DYNAMIC BRAKE G/RELAY PROTECTION CIRCUIT MOD COMP.DYN BRAKE CUT OUT MOD COMPLETED & RHEOSTAT PROTECTION C/CT'.

**06.03.1990** Service defect: 'UN - WHEELSLIP - WHEELSLIP &

BRAKE WARNING MODS COMPLETED.TESTED OK.'.

**23.03.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - - T/MOTORS & M/GENERATOR CHECKED OK.'.

**23.03.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - SFT RELAY REPLACED.(BURNT OUT) - CR31 REPLACED.(SHORTED OUT)'.

**23.03.1990** Service defect: 'TS - RADIO REPAIR - FAULTY UNIT - RADIO UNIT REPLACED.'.

**04.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER -

**04.04.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT - CONVERTOR REPLACED.'.

**14.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - LOCK U/S - SPRING REPLACED D/SIDE DOOR LOCK.(SPRING BROKEN)'.

**06.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND/PIPE REPAIRS - R.6 SANDING GEAR REPLACED.'.

**25.05.1990** Service defect: 'B - BOGIE - BRAKE STRAP CRACKED - R.3 OUTER STRAP REPLACED.'.

**23.06.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - REGULATOR RE-SET. - GRIDS & CONTACTORS CHECKED OK.'.

**23.06.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT - REAR RECEPTICLE REPAIRED.(O/SIDE REAR)'.

**01.07.1990** Service defect: 'UN - ENGINE - ENGINE REVS - ENGINE MECH. AND ELECT. CHECKED O.K. INJECTOR CHANGED A/C RACK MOVEMENT STIFF.'.

**22.07.1990** Service defect: 'UN - BROKEN VALVE - BROKEN VALVE - NO.16 POWER ASSY.CHANGED/OUT,EXCEPT CON/ROD.'.

**18.08.1990** Service defect: 'UN - BROKEN VALVE - DROPPED VALVE - NO.4 CYLINDER/HEAD REPLACED.'.

**28.08.1990** Service defect: 'B - BOGIE LIFT A/C SHOCK/ABSORBER & STABILISERS.'.

**28.08.1990** Service defect: 'B - L.5 AXLE BOX & SUPPORT BEASRINGS.'.

**31.08.1990** Service defect: 'SW - BOGIE - AXLE/BOX - L.6 REPLACED.'.

**31.08.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING - ALL STABILISERS REPLACED,CLEVIS RODS OK. - L.5 SUPPORT BEARING REPLACED.'.

**03.09.1990** Service defect: 'UN - BROKEN VALVE - BURNT VALVE - NO.9 CYLINDER HEAD REPLACED.'.

**07.09.1990** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - TEMP.GAUGE ON WATER PIPE IN VALLEY REPLACED.'.

**24.09.1990** Service defect: 'UN - BOGIE - WORN RUBBERS - STABILISER RUBBERS REPLACED.'.

**24.09.1990** Service defect: 'UN - ENGINE WATER LEAK - LOSING WATER - MARMON CLAMP REPLACED.(BROKEN)'.

**24.09.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - WORN KNUCKLE - REAR KNUCKLE REPLACED.'.

**16.10.1990** Service defect: 'E - ENGINE - NO.3 AND NO.8 POWER ASSEMBLYS TO BE MONITORED A/C HIGH RING-LAND WEAR'.

**27.10.1990** Service defect: 'TS - ENGINE - CRANK/CASE OPERATION - NO.6 ASSY REPLACED.(PISTON HOLED)'.

**31.10.1990** Service defect: 'UN - ENGINE - EXHAUST CHECKED OK,CLEAN & NO CARBON BUILD UP.'.

**31.10.1990** Service defect: 'UN - GENERAL - LOCO RUN IN NOTCH 8,NO EVIDENCE OF FOREIGN BODIES EMITTING FROM EXHAUST.'.

**31.10.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES CHECKED OK,NO EVIDENCE OF DRAGGING.'.

**09.11.1990** Service defect: 'UN - BOGIE - TWO INSIDE SPREADER BARS REPLACED A/C BROKEN NO4 AXLE'.

**10.11.1990** Service defect: 'UN - BROKEN PIPE - FRACTURED OIL PIPE - OIL PIPE TO BLOWERS REPAIRED.'.

**10.11.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - INJECTOR SEIZED - NO.11 INJECTOR REPLACED.'.

**18.11.1990** Service defect: 'SW - LUBRICATING SYSTEM - OIL & WATER CHANGE - COMPLETED A/C LAB REPORT.'.

**17.12.1990** Service defect: 'UN - BROKEN PIPE - CRACKED FLARE - OIL LINE FROM BLOWERS REFLARED.'.

**17.12.1990** Service defect: 'UN - FUEL SYSTEM - SHUT/DOWN (NO FUEL) - FUEL FILTERS REPLACED.'.

**17.12.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - LOCO CHECKED OK.'.

**15.01.1991** Service defect: 'TW - BATTERY MAINTENANCE - BATTERY VOLTAGE SET TO 72.5V AT NOTCH 8'.

**27.01.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE WARNING IN POWER - BATTERIES FLAT & LOW TO EARTH ( 0.4 M CONTROL).'.

**01.02.1991** Service defect: 'UN - GENERAL - 'A' END DRAW-GEAR CHANGED.'.

**13.02.1991** Service defect: 'B - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - BLOWN GRID - D/SIDE REAR DYNAMIC GRID REPLACED.'.

**13.02.1991** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - MODIFICATION - VOLTAGE REGULATOR MOD COMPLETED.'.

**11.03.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - DYN/BRK REGULATOR REPLACED & SET/UP. - (REGULATOR TAKEN OFF GM38)'.

**11.03.1991** Service defect: 'UN - NO FAULT FOUND - NO POWER - LOCO COUPLED TO CL11 WHICH HAD NO POWER FAULT. - (CHECK FAULT HISTORY ON CL11)'.

**12.03.1991** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - DYNAMIC REGULATION - CHECKED & ADJUSTED.'.

**21.03.1991** Service defect: 'UN - DYNAMIC BRAKE - NO POWER AFTER DYNAMIC - LOCO CHECKED IN DEPOT,NOT FAULTED.'.

**02.09.1991** Service defect: 'F - ENGINE - O/HAUL - COMPLETED.'.

**07.11.1991** Service defect: 'UN - WHEELSLIP - CONTINUOUS WHEEL/SLIP - RVR5 CONTACTOR REPLACED.(TIP HOLED)'.

**15.11.1991** Service defect: 'A - CONTACTOR MISCELLANEOUS - BKP2 CONTACT NO 1 FILED FLAT,A/C METAL TRANSFER DUE TO HIGH CURRENT ACROSS CONTACT.WSS C+A CONTACTS HAD BEEN TRANSPOSED'.

**15.11.1991** Service defect: 'A - ELECTRICAL MISC. AC/DC RELAYS - P.D.R. REPLACED,A/C FAULTY.'.

**05.02.1992** Service defect: 'B - 'A'END PACKAGE TO BE MONITORED.5/2.'.

**23.04.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - REPLACED MAIN CONTACTS ON S45 & S23.NO 3 THERMOSTAT REPLACEDA/C BROKEN & CONTINUOUSLY OPERATED.'.

**23.04.1992** Service defect: 'A - FUEL SYSTEM INJECTORS -

NO 5 INJECTOR CHANGED.'.

**23.04.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR GOVERNOR PIPE REPAIRED.'.

**29.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - NO.4 INJECTOR PIN AND CLIP REPLACED A/C MISSING.NO.12 CLIP REPLACED A/C MISSING.'.

**29.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADERS CHECKED AND LUBRICATED.'.

**14.07.1992** Service defect: 'C - BOGIE - GEARCASE LUG REWELDED.A/C CRACKED.'.

**14.07.1992** Service defect: 'C - CONTACTOR MISCELLANEOUS - BKR CONTACTS CHANGED.'.

**14.07.1992** Service defect: 'C - COOLING SYSTEM - COOLANT WATER CHANGED AND SYSTEM FLUSHED.'.

**14.07.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - 33 T/M BRUSHES CHANGED A/C CONDEMNING LIMIT.'.

**14.07.1992** Service defect: 'C - NO. 2 TOP T/M BRUSH HOLDER TO MONITOR.'.

**02.10.1992** Service defect: 'A - BOGIE - BOGIE HOSE CHANGED ON 'A'END OBS/SIDE.'.

**02.10.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 2 WICKS REPLACED.'.

**02.10.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - M.R. HOSE 'B'END REPLACED OBS SIDE.'.

**29.10.1992** Service defect: 'TS - ENGINE - R.H. ENGINE BLOWER FITTED AND BOLTS TORQUED.'.

**29.10.1992** Service defect: 'TS - EXHAUST - EXHAUST BOLTS TORQUED UP. LOCO SENT ON LOADED TRIAL RUN & TESTED OK.'.

**07.01.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R6-R3-R2.WICKS CHANGED.OK.'.

**07.01.1993** Service defect: 'B - FUEL SYSTEM INJECTORS - NO 14.INJECTOR CHANGED.'.

**07.01.1993** Service defect: 'B - GENERAL - NO9.WATER JUMPER LINE CHANGED.'.

**04.03.1993** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - OIL PIPE FROM GOVENOR TO LOAD REGULATOR RE FLANGED A/C BROKEN GOVENOR END'.

**01.04.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L2,L3,L4,L6,R1,R3,R4 & R6 WICKS CHANGED.'.

**01.04.1993** Service defect: 'A - TRACTION MOTOR - NO 4 T/M BLOWER REPLACED,A/C SEIZED.'.

**06.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RVR5 INTERLOCK BOX & RECTIFIER REPLACED,A/C LOCO DID NOT GO IN REVERSE DIRECTION. LOCO OK.'.

**06.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - H.P. VALVE REMOVED FROM COMPRESSOR & REPAIRED. COMP RUN UP OK.'.

**06.04.1993** Service defect: 'UN - NO 4 & NO 6 T/M'S TO MONITOR,A/C VIBRATIONS.6/4.'.

**07.04.1993** Service defect: 'UN - TRACTION MOTOR - NO 5 T/M BLOWER FLOOR AREA WELDED UP,A/C CRACKED. LOCO STARTED & FANS OPERATED OK. LOCO DIRECTION & POWER TEST OK.'.

**12.05.1993** Service defect: 'UN - CONTACTOR INTERLOCKS - INTERLOCK BOX ON P14 REFITTED A/C LOOSE. INSULATION REMOVED FROM CONTACTORS.'.

**12.05.1993** Service defect: 'UN - TRACTION MOTOR EARTH - NO.2 TRACTION MOTOR CHANGED A/C EARTH FAULT.'.

**09.06.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 9 CYLINDER HEAD CHANGED,A/C VALVE NOT SEATING CORRECTLY. ALL WORK COMPLETED,LOCO TO TRAFFIC.'.

**22.06.1993** Service defect: 'B - T/M BLOWER FAN TO BE REPLACED WHEN STOCK AVAILABLE'.

**22.06.1993** Service defect: 'B - 22/6. WATER LEAKING INSIDE 'AIRBOX' WATER RAIL'.

**22.06.1993** Service defect: 'B - NEAR CYL NO 9.22/6.'.

**02.09.1993** Service defect: 'UN - ENGINE ROOM - ENGINE ROOM WASHED, LOCO SENT BACK INTO TRAFFIC.'.

**03.09.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - FULL BRUSH CHANGE IN NO'S 1,3 & 5 T/MOTORS, A/C SHORT BRUSHES, (HAMMERS RESTING ON BRUSH HOLDER WINDOW). 6 BRUSHES'.

**08.09.1993** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L1,R3 & R6 WICKS CHANGED, A/C DIRTY. OIL REPLACED.'.

**08.09.1993** Service defect: 'D - LUBRICATING SYSTEM - GASKETS ON OIL COOLER REPLACED, CHECKED OK.'.

**08.09.1993** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - BP COCK 'A'END REPAIRED, A/C LEAKING. 'B'END BRAKE PIPE HOSEREPLACED.'.

**08.09.1993** Service defect: 'D - RADIATOR/PRESSURISING FAN - PRESSURISING FAN REPLACED, A/C U/S.'.

**08.09.1993** Service defect: 'D - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED IN NO 4 T/MOTOR. ALL BUT THREE CHANGED IN NO 6 T/MOTOR.'.

**08.09.1993** Service defect: 'D - RHS REAR MAIN/RES LEAKING AIR AT BARREL UNION.8/9.'.

**14.09.1993** Service defect: 'UN - GENERAL LOSS OF POWER - D/B GR'S - NO FAULT FOUND WITH D/BRAKE.'.

**14.09.1993** Service defect: 'UN - LUBRICATING SYSTEM - NO OIL LEAKS FOUND.'.

**07.10.1993** Service defect: 'TW - DYNAMIC BRAKE - GR'S IN DYNAMIC. GRIDS ALL CHECKED OK. FAN AND CABLES CHECKED OK.'.

**07.10.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - 'AE' AND 'BE' WIRES IN LEFT OF CUBICLE BUTT JOINED WITH NEW WIRE A/C DRILL BIT STICKING INTO THEM AND TOUCHING FRAME.'.

**07.10.1993** Service defect: 'TW - TRACTION MOTOR - NO.3 T/M HAD 3 BRUSHES CHANGED A/C BURNT PIG TAILS.'.

**19.10.1993** Service defect: 'UN - ENGINE - VALVE & INJECTOR TIMING CHECKED OK, RACKS CHECKED OK.'.

**19.10.1993** Service defect: 'UN - ENGINE AIR FILTERS - ENGINE INTAKE FILTERS REPLACED.'.

**19.10.1993** Service defect: 'UN - EXHAUST - SPARK ARRESTER CAP REPLACED, A/C MISSING.'.

**10.01.1994** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO.4 AND NO.6 WHEEL SETS CHANGED.'.

**10.01.1994** Service defect: 'TS - FUEL SYSTEM INJECTORS - FUEL INJECTORS CHANGED.'.

**10.01.1994** Service defect: 'TS - GENERAL - LOCO LOAD TESTED, A/C OVER HEATING.'.

**10.01.1994** Service defect: 'TS - TRACTION MOTOR - NO.4 AND NO.6 T/M CHANGED, EARTH ON ARMATURE.'.

**10.01.1994** Service defect: 'TS - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES CHANGED.'.

**13.01.1994** Service defect: 'A - ENGINE - BLOWER GASKETS REPLACED, A/C LEAKING. AIR BOX WATER LEAK REPAIRED.'.
**13.01.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - RHS REAR M/RES. LEAKING AIR AT BARREL UNION. TIGHTENED AND CHECKED OK.'.
**13.01.1994** Service defect: 'A - VIGILANCE - VIGILANCE VALVE REPLACED.'.
**13.01.1994** Service defect: 'A - T/M BLOWER FAN TO REPLACE WHEN STOCK AVAIABLE.13/1'.
**04.03.1994** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO 6 WHEEL SET CHANGED, A/C SUSPENSION BEARING FAILURE.'.
**04.03.1994** Service defect: 'TS - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDENT APPLICATION VALVE REPLACED, A/C TAKEN FOR GM 27.'.
**04.03.1994** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR FILLER CAP REPLACED, A/C REMOVED FOR GM 43.'.
**04.03.1994** Service defect: 'TS - TRACTION MOTOR - NO 6 T/MOTOR CHANGED, A/C SUSPENSION BEARING FAILURE.'.
**11.03.1994** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO 6 T/M MISSING 2 CLEATS, CABLES HANGING LOOSE, REFITTED CABLES. INSPECTED GRIDS AND BLOWER MOTOR. INSPECTED T/M'S.'.
**11.03.1994** Service defect: 'UN - GENERAL - PRESSURISING FILTERS REPLACED.'.
**11.03.1994** Service defect: 'UN - MAIN GENERATOR - INSULATED MAIN GENERATOR CABLE, HADN'T RUBBED THROUGH, LOCO MEGGERS 2 MOHMS H.T.'.
**11.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMP SAFETY VALVE REPLACED.'.
**11.03.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - PRESSURISING FAN DIRECTION REVERSED, A/C SUCKING INSTEAD OF BLOWING.'.
**05.04.1994** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L1,R3 WICKS REPLACED AND OIL CHANGED.'.
**05.04.1994** Service defect: 'B - COOLING SYSTEM - WATER COOLER REPAIRED, A/C FAN HITTING CONDENSER.'.
**05.04.1994** Service defect: 'B - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - MIDDLE GRID DRIVERS SIDE REPLACED, A/C FLASHING TO GRATE AT BACK.'.
**05.04.1994** Service defect: 'B - MAIN GENERATOR - 2 BRUSH HOLDERS REPLACED IN MAIN GEN, A/C SHUNTS BROKEN.'.
**05.04.1994** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLING LEVER STRAIGHTENED.'.
**05.04.1994** Service defect: 'B - RADIATOR/PRESSURISING FAN - RAD FAN CONTACTOR (NO1) 2 STATIONARY CONTACTS REPLACED, A/C SILVER LIFTING.'.
**18.04.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - LOCO TO WTM, A/C FLAT WHEELS.'.
**06.05.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 9 HEAD CHANGED, A/C DROPPED VALVE.'.
**06.05.1994** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK ON L/H WATER RAIL REPAIRED.'.
**11.05.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 2 T/MOTOR REPLACED, A/C BOTTOM BRUSH HOLDER FLASHED AND MELTED. CONNECTING CABLES LUG ALSO MELTED. ALL OTHER T/M'S'.
**11.05.1994** Service defect: 'TS - MAIN GENERATOR - MAIN GEN CHECKED OK.'.
**13.05.1994** Service defect: 'UN - COOLING SYSTEM RADIATOR - NO 2 RADIATOR D/S REPLACED. LOCO TESTED FOR LEAKS.'.
**13.05.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - NO 2 RAD FAN REPLACED, A/C BEARING U/S. RAD FAN CONTACTORS REPLACED, A/C WELDED CONTACTS. RAD FAN'.
**03.06.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST, A/C SKIDDED WHEELS - BRAKE TEST COMPLETED OK. VISUAL INSPECTION OF BRAKE PIPES UNDER LOCO CHECKED OK. 1 IR'.
**24.06.1994** Service defect: 'A - FUEL SYSTEM PUMP - FLICK SPRING REPLACED ON FUEL PUMP, A/C MISSING.'.
**24.06.1994** Service defect: 'A - OTHER BODY REPAIRS - OBS/SIDE MIRROR REPLACED.'.
**24.06.1994** Service defect: 'A - RADIATOR/PRESSURISING FAN - RADIATOR FAN CHANGED, A/C U/S.'.
**24.06.1994** Service defect: 'A - TRACTION MOTOR - NO 6 T/MOTOR CONCERTINA REPAIRED, A/C NOT SITTING PROPERLY.'.

### GM 41

Details: locomotive 'GM 41 F' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $249870
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 09.02.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 01.04.1995 | | |
| Last Lift: | 24.06.1988 | | |
| SW Service Mileage: | 587965 KM | SW Service Date: | 08.12.1990 |
| A Service Mileage: | 1229204 KM | A Service Date: | 22.10.1994 |
| B Service Mileage: | 1200660 KM | B Service Date: | 20.07.1994 |
| C Service Mileage: | 1278553 KM | C Service Date: | 16.01.1995 |
| D Service Mileage: | 818001 KM | D Service Date: | 29.01.1992 |
| E Service Mileage: | 520335 KM | A Service Date: | 17.08.1990 |
| F Service Mileage: | 0 KM | A Service Date: | 24.06.1988 |
| WT Service Mileage: | 1172358 KM | WT Service Date: | 18.05.1994 |
| US Service Mileage: | 1297396 KM | A Service Date: | 06.03.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**14.07.1989** Service defect: 'UN - BLOCKED FILTERS - BURNT FILTERS - ALL FRONT PRESSURISING FAN FILTERS REPLACED A/C BURNT. SPARK ARRESTERS TO CHECK NEXT SERVICE A/C LOCO'.

**14.07.1989** Service defect: 'UN - BLOCKED FILTERS - REQUIRED FOR TRAFFIC. GM41 WITH GM23 WHEN FIRE OCCURRED.'.
**14.07.1989** Service defect: 'UN - NO FAULT FOUND - FRONT PRESSURISING FAN CHECKED OK.'.
**14.07.1989** Service defect: 'UN - SPARK ARRESTERS TO CHECK NEXT SERVICE.14/7.'.
**02.08.1989** Service defect: 'SW - ENGINE GOVERNOR MECHANICAL - WATER LEAK - PROTECTION UNIT REPLACED.(TELL/TAIL LEAK)'.
**08.08.1989** Service defect: 'SW - LUBRICATING SYSTEM - OIL CHANGED A/C FUEL DILUTION.'.
**17.08.1989** Service defect: 'UN - FUEL SYSTEM - CRACKED FUEL TANK - FUEL TANK DEGASSED AT THE ROUNDHOUSE ANDREWELDED. TANK FILLED AND CHECKED OK.'.
**09.09.1989** Service defect: 'UN - BOGIE - PIN MISSING - L.3 BRAKE STRAP PIN REPLACED.'.
**01.11.1989** Service defect: 'WT - BRAKES TO ADJUST'.
**16.11.1989** Service defect: 'UN - MICRO SWICH TO REPLACE,A/C NO D BRK.'.
**17.11.1989** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - MICRO SWITCH ON CONTROLLER FOR DYN BRAKE REPLACED A/C FAULTY'.
**17.11.1989** Service defect: 'A - ENGINE - BASKET BOLTS RETORQUED.'.
**27.11.1989** Service defect: 'UN - CONTACTOR WELDED - CONTACTOR WELDED - BKB4 CONTACTOR REPLACED. (NO POWER)'.
**18.12.1989** Service defect: 'UN - NO FAULT FOUND - - TESTED IN DEPOT 450 AMPS IN DYNAMIC.'.
**18.12.1989** Service defect: 'UN - NO FAULT FOUND - 300 AMPS IN DYNAMIC - CONTACTORS,GRIDS & RHEOSTAT CHECKED OK - DBR,BWR SET/UPS CHECKED OK.'.
**07.01.1990** Service defect: 'UN - NO FAULT FOUND - NO POWER - LOCO SET/UP AS SINGLE UNIT & TESTED. - (NO FAULT EVIDENT)'.
**16.01.1990** Service defect: 'UN - BOGIE - DERAILMENT REPAIRS - NO.4&5 G/CASES REPLACED.'.
**16.01.1990** Service defect: 'UN - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG/OIL & FILTERS CHANGED.'.
**16.01.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE DAMAGE - PIPE WORK ON REAR OF LOCO REPAIRED. (AIR LEAKS)'.
**19.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION.'.
**15.02.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - O/SIDE NO.1 BRAKE STRAPS REPLACED.'.
**15.02.1990** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT - FAN OPERATION CHECKED OK.'.
**27.02.1990** Service defect: 'UN - DYNAMIC BRAKE - HIGH INITIATION - MICRO/SWITCH BC-BL REPLACED. - RHEOSTAT REPLACED.'.
**08.03.1990** Service defect: 'UN - BOGIE - BRAKE STRAP - R/HAND NO.3 INNER BRAKE STRAP REPLACED A/C BROKEN.'.
**17.03.1990** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - WATER LEAK - PROTECTION UNIT REPLACED & TESTED OK.'.
**30.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - L4 SAND PIPE REPAIRED.'.
**07.04.1990** Service defect: 'TS - NO FAULT FOUND - WHEEL/SLIP OPERATION - LOCO CHECKED & TEST RUN COMPLETED. - LOCO NOT FAULTED.'.
**18.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - HOSES & NOZZLES MISSING - D/SIDE REAR BOGIE SANDING GEAR - REPLACED.'.
**24.04.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING 100 KM/H - STABILISERS & SHOCKIES CHECKED OK.'.
**19.05.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - R.3 INNER BRAKE STRAP REPLACED.'.
**08.06.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE MOD COMPLETED.'.
**22.06.1990** Service defect: 'B - DYNAMIC BRAKE - DYN/BRAKE MODIFICATION - COMPLETED.'.
**18.07.1990** Service defect: 'UN - BOGIE - 3 SHOCKERS RENEWED.'.
**18.07.1990** Service defect: 'UN - GENERAL - NO2 GEARCASE REPLACED A/C DAMAGED.'.
**20.07.1990** Service defect: 'UN - BOGIE - STABILISERS - L.1,3&4,R.1&3 TURNED OVER.(FITTED INCORRECT)'.
**20.07.1990** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - WICK CHECK - COMPLETED.(CHECKED OK AFTER TRIAL RUN)'.
**20.07.1990** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - BEARING DAMAGE - R.2 SUPPORT BEARING REPLACED.'.
**02.08.1990** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - REGULATOR FAILURE - VOLTAGE REGULATOR CHANGED. - WIRING CORRECTED.'.
**07.08.1990** Service defect: 'UN - NO.3 SUPPORT BEARINGS TO REPLACE.'.
**07.08.1990** Service defect: 'UN - NO.6 T/MOTOR & SUPPORT BEARINGS TO REPLACE. (7/8)'.
**09.08.1990** Service defect: 'SW - TRACTION MOTOR SUSPENSION BEARING - BEARING FAILURE - NO.6 T/MOTOR & SUPPORT BEARING CHANGED. - BOTH SUPPORT BEARINGS REPLACED.(NO.3)'.
**10.08.1990** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK - COMPLETED,NO.3&6 WICKS CHECKED OK.'.
**17.08.1990** Service defect: 'E - TO BE PROFILED A/C R.4 FLANGE (8). (16/8)'.
**01.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - VALVE FAULTY - AUTO/BRAKE VALVE REPAIRED.'.
**21.09.1990** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - *(REAR E.P.VALVE STUCK OPEN,FORWARD E.P.VALVE CLOSED)*'.
**21.09.1990** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - COULDN'T MAINTAIN AIR - REAR SANDER E.P.VALVE CLEANED. (SANDERS CUT/OUT) - FORWARD SANDER VALVE CLEANED.'.
**08.12.1990** Service defect: 'SW - AIR CONDITIONING - AIR/COND.INSTALLATION - COMPLETED.'.
**17.12.1990** Service defect: 'UN - BOGIE - - STABILISERS/SHOCKIES CHECKED OK.'.
**17.12.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - NEW SET RESILIANT RUBBERS INSTALLED.(EMD) - THRUST BLOCKS R.1,2&3 REPLACED.(DAMAGED)'.
**17.12.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - CABLE RE-INSULATED ON NO.1 T/MOTOR.'.
**14.03.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - CON/ROD FAILURE - COMPRESSOR REPLACED.(EX GM39)'.

**15.03.1991** Service defect: 'C - BATTERY MAINTENANCE - DEAD CELLS - 7 NO.STARTING BATTERIES REPLACED. - CHARGE RATE CHECKED OK.'.
**19.04.1991** Service defect: 'UN - GENERAL - D/SIDE WINDOW WINDER REPLACED,A/C BROKEN HANDLE.'.
**19.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - TOILET PAN - REPLACED,CAN BE USED AS LEAD UNIT.'.
**05.10.1991** Service defect: 'A - DYNAMIC BRAKE - BKB4 LEFT SIDE CLEANED.'.
**05.10.1991** Service defect: 'A - MECHANICAL EQUIPMENT - NO.5 TEST COCK REPLACED.'.
**05.10.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE REPLACED.A/C AUTO BRAKE U/S.'.
**05.10.1991** Service defect: 'A - JUMPER CABLE TO REPLACE. A/C NIL STOCK.'.
**11.11.1991** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP OPERATION - BKP-2 CONTACTOR REPLACED.(BURNT TIPS)'.
**04.12.1991** Service defect: 'B - ENGINE AIR FILTERS - ENGINE AIR INTAKE FILTERS REPLACED.'.
**04.12.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SANDING HOSES REPLACED.'.
**14.04.1992** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED,A/C W/SLIP.OUT- 67L1-1178. LOCO OK ON TRIAL RUN.'.
**26.05.1992** Service defect: 'A - GENERAL - REPAIRED D/SIDE HEATER.'.
**26.05.1992** Service defect: 'A - MAIN GENERATOR - 10 MAIN GENERATOR BRUSHES CHANGED.REPLACED MAIN GEN BRUSH CLIP,A/C MISSING.'.
**06.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ALARM BELL REPAIRED.'.
**06.08.1992** Service defect: 'UN - NO FAULT FOUND - GROUND RELAY CIRCUIT CHECKED OK/REPORTED AS U/S.'.
**19.08.1992** Service defect: 'B - AIR CONDITIONING - AIR-CON CHECKED OK.'.
**19.08.1992** Service defect: 'B - BOGIE - NO.6 GEARCASE TIGHTENED AND RE-SHIMMED.'.
**19.08.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - R4 AND R6 OIL CHANGED IN SUSPENSION BEARINGS. R4 WICK CHANGED.'.
**19.08.1992** Service defect: 'B - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL LOCATED AND REPAIRED. DAMAGED WIRE TO D/B INTERLOCK.'.
**19.08.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - WVR COIL U/S. RELAY REPLACED.'.
**25.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SENT TO WTM A/C BAD FLATS.'.
**25.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - R6 BRAKE CYLINDER REPLACED A/C NOT RELEASING CORRECTLY. NO.4 CONTROL PIPE REPAIRED A/C BAD AIR LEAK.'.
**03.09.1992** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - JUMPER RECEPTACLE REPAIRED A/C DAMAGED.'.
**16.11.1992** Service defect: 'A - BOGIE MAINTENANCE - WICKS - 5 WICKS REPLACED ON 'B' BOGIE, A/C DIRTY.'.
**16.11.1992** Service defect: 'A - ELECTRICAL MISCELLANEOUS - REPAIRED HOT LUG ELECT CAB, RP TERMINAL.'.
**29.12.1992** Service defect: 'UN - BOGIE - L1 AXLE BOX INSPECTED, A/C BRAS IN OIL. AXLE BOX WASHED OUT LATERAL CLEARANCES CHECKED OK, AXLE BOX LUBED.'.
**20.01.1993** Service defect: 'UN - BOGIE - SHOCK ABSORBER RUBBERS REPLACED AND NO1 SHOCKER.'.
**28.01.1993** Service defect: 'C - BOGIE - NO.6 'C' CLAMP REPLACED A/C WEARING AWAY.'.
**28.01.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - L6,R6 WICKS CHANGED ACCOUNT DIRTY.'.
**28.01.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - RHS MU PLUG FACE PLATE REPLACED ACCOUNT CRACKED AND BROKEN.'.
**28.01.1993** Service defect: 'C - PEE PIPE - BOTH P/PIPE HOSES REPLACED.'.
**29.01.1993** Service defect: 'UN - FUEL SYSTEM - TOP OF FUEL TANK WASHED, A/C FUEL LEAK.'.
**05.05.1993** Service defect: 'A - BOGIE - BOGIE CHANGE COMPLETED (BOGIES EX ISL).'.
**05.05.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - DIODE (C9) IN FIELD SHUNT CONTACTOR CIRCUIT REPLACED, A/C OPEN CIRCUITED.'.
**05.05.1993** Service defect: 'A - TRACTION MOTOR - NO 6 T/MOTOR REPLACED, A/C CABLE RUBBED THROUGH UNTO ARMATURE CAUSING G/R & FLASH.'.
**26.05.1993** Service defect: 'TS - WHEELSLIP - NO 2 T/MOTOR REPLACED,A/C WHEELSLIP. LOCO SENT ON TRIAL RUN TESTED OK.'.
**29.07.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - P1 & 4 CONTACT TIPS CHANGED, A/C PITTED.'.
**29.07.1993** Service defect: 'A - OVERSPEED TO REPAIR, A/C WORN LOBES ON SHAFT.29/7.'.
**03.08.1993** Service defect: 'UN - EXHAUST - EXHAUST CLAMP 'B'END REPLACED, A/C CRACKED. 'A'END CLAMP - NUT REPLACED.'.
**17.08.1993** Service defect: 'UN - ENGINE - ALL ROCKER GEAR REMOVED AND RPLACED WITH EX GM25 ROCKER GEARA/C WORN ON BACK OF ROCKER.'.
**17.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - LOBES ON O/SPEED SHAFT ALL WORN. LOBES WELDEDBUILT UP.'.
**03.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CHART RECORD ROLL CHANGED'.
**16.10.1993** Service defect: 'UN - ENGINE - C/CASE SHUT DOWN - LOCO INSPECTED. ENGINE TOP DECK AREA CHECKED OK. ENGINE STARTED AND NO SIGNS OF ENGINE SMOKE.'.
**01.11.1993** Service defect: 'TS - ENGINE - NOS 1 & 9 POWER ASSEMBLYS CHANGED, A/C CRANKCASE EXPLOSION. ALL CONROD DOWELLS CHECKED OK.'.
**09.11.1993** Service defect: 'B - OTHER BODY REPAIRS - RHS ENGINE PORTHOLE REPLACED, A/C CRACKED.'.
**09.11.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - BRUSHES REPLACED ON NO4 T/MOTOR, A/C WORN DOWN TO PIGTAILS. COMM CLEANED, TOP BRUSH HOLDER REMOVED AND BURRS FILED OFF.'.
**10.11.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - RVF 14 CONTACTOR REPLACED, A/C INTERMITTENT W/SLIP. TRIP LEVER PIN CHANGED, A/C BENT.'.

**08.12.1993** Service defect: 'TS - ENGINE - NO 15 HEAD AND PISTON REPLACED, A/C DROPPED VALVE.'.
**08.12.1993** Service defect: 'TS - ENGINE PROTECTION - CHANGED ENGINE PROTECTION DEVICE, A/C LEAKING WATER.'.
**08.12.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKE BLOCKS REPLACED, A/C DRAGGING BLOCKS.'.
**09.01.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVE REPLACED ON COMPRESSOR, A/C BLOWING.'.
**02.02.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL T/M BRUSHES REPLACED. BOTTOM BRUSH HOLDER ON NO 5 T/M CHANGED.'.
**23.02.1994** Service defect: 'UN - AIR CONDITIONING - AIR CONDITIONER BELTS REPLACED - SPARES ALSO PUT ON. NEW SAFETY GUARD FITTED.'.
**30.03.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - NO 4 T/MOTOR REPLACED, A/C GR'S (ARMATURE TO EARTH).'.
**22.04.1994** Service defect: 'A - CONTACTOR EP VALVES - 75V MAGNET VALVE REPLACED.'.
**22.04.1994** Service defect: 'A - COOLING SYSTEM WATER PUMP - R/H/SIDE WATER PUMP CHANGED, LEAKING.'.
**22.04.1994** Service defect: 'A - ENGINE AIR FILTERS - BLOWER INTAKE FILTERS REPLACED.'.
**22.04.1994** Service defect: 'A - ENGINE PISTON - NO 13 PISTON REPLACED.'.
**22.04.1994** Service defect: 'A - FUEL SYSTEM INJECTORS - NO 4 INJECTOR REPLACED.'.
**11.05.1994** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - GROUND RELAYS IN LT - T/MOTORS CHECKED AS PRECAUTION.'.
**14.05.1994** Service defect: 'TS - TRACTION MOTOR EARTH - NO 3 T/MOTOR REPLACED, A/C EARTH FAULT. NEW BEARINGS FITTED.'.
**21.06.1994** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT 'B'END CHECKED OUT OK.'.
**21.06.1994** Service defect: 'TS - EXHAUST - EXHAUST CLAMP FITTED.'.
**03.07.1994** Service defect: 'UN - NO FAULT FOUND - COMPRESSOR BLOWING OIL OUT OF FILLER CAP - CHECKED, NO FAULTFOUND.'.
**19.08.1994** Service defect: 'UN - B/BLOCKES CHANGED LUBED MECH & ELECT S CHECHED OK'.

**GM 42**

Details: locomotive 'GM 42 Y' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $249870
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 27.02.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 28.04.1997 | | |
| Last Lift: | 24.03.1992 | | |
| SW Service Mileage: | 557172 KM | SW Service Date: | 26.03.1997 |
| A Service Mileage: | 556121 KM | A Service Date: | 13.02.1997 |
| B Service Mileage: | 478361 KM | B Service Date: | 03.07.1996 |
| C Service Mileage: | 387682 KM | C Service Date: | 02.12.1995 |
| D Service Mileage: | 208142 KM | D Service Date: | 13.04.1994 |
| E Service Mileage: | 573376 KM | A Service Date: | 08.11.1990 |
| F Service Mileage: | 745428 KM | A Service Date: | 24.03.1992 |
| WT Service Mileage: | 180431 KM | WT Service Date: | 27.01.1994 |
| US Service Mileage: | 561424 KM | A Service Date: | 28.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**22.07.1989** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO.2 T/MTR.CABLES RE-INSULATED UNDER METAL CLEAT - ON OUT/SIDE OF MOTOR.'.
**26.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WIRE RELUGGED A/C GAUGE LIGHT NOT WORKING.'.
**26.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TOOTER TUGGER REPLACED A/C WORN.'.
**01.09.1989** Service defect: 'TS - CONTACTOR WELDED - BKB4 CONTACTOR CHANGED A/C WELDED.'.
**08.09.1989** Service defect: 'UN - BOGIE - R1.PEDESTAL LINER REPLACED A/C WORN.'.
**10.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR IN CONTROL PIPE WHEN BRAKES APPLIED.(CHECKED) CHECK IND.RELEASE HOSES WHEN RELEASING BRAKES QUICK RELEASE.'.
**10.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST - BRK/PIPE 500 KPA,MAIN RES.790-860 KPA. - BRK/CYL. 315 KPA.'.
**10.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES RELEASING USING AUTO & IND/BRK.(CHECKED) CHECKED CONTROL LOCO WORKING LEAD) & TRAILING LOCO DEAD OK.'.
**10.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE - CHECKED OK. BRK/PIPE - RISE IN 1 MINUTE NIL.'.
**10.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MIN/REDUCTION - BRK/PIPE LEAK NIL. - FLOW METER CHECKED OK.'.
**10.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MULTIPLE UNIT TEST - COUPLED TO GM45.'.
**10.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PRESSURE - BRK/PIPE GAUGE DROP 20 KPA. SINGLE UNIT TEST - WHEN IND.BRK IS ON,ALL CONTROL HOSES (4)'.
**24.10.1989** Service defect: 'D - CONTACTOR INTERLOCKS - M1,M2,INTERLOCKS ON BRAKE RELAY CLEANED,HIGH RESISTANCE OK.'.

**02.11.1989** Service defect: 'UN - DYNAMIC BRAKE - BR CLEANED.(INTERLOCKS).LOCO TESTED OK IN POWER & DYNAMIC.'.
**22.11.1989** Service defect: 'A - ENGINE - BASKET BOLTS RETORQUED.'.
**22.11.1989** Service defect: 'A - ENGINE PISTON - NO.4 PISTON & HEAD REPLACED A/C EXCESS RING CLEARANCE.'.
**22.11.1989** Service defect: 'A - LUBRICATING SYSTEM - R6 WICK & OIL CHANGED.'.
**03.01.1990** Service defect: 'UN - ENGINE - LOAD/TEST - COMPLETED. (OIL COOLER TO BE REPLACED) - LOAD/TESTED A/C HOT ENGINE REPORTS.'.
**10.01.1990** Service defect: 'B - ENGINE CYLINDER HEADS - FEATHERED COLLETS - 1,2,3,5,9,10,12,13&15 HEADS REPLACED.'.
**10.01.1990** Service defect: 'B - ENGINE PISTON - EXCESS RING/LAND CLEARANCE - 3,5,9,13&15 PISTONS REPLACED.'.
**10.01.1990** Service defect: 'B - LUBRICATING SYSTEM - CONTAMINATED OIL - ENG.OIL & FILTERS CHANGED.'.
**10.01.1990** Service defect: 'B - OVERHEATING - HOT ENGINE REPORTS - LOAD/TEST COMPLETED. - O/HAULED OIL/COOLER INSTALLED.'.
**10.01.1990** Service defect: 'B - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES - NEW SET INSTALLED.'.
**14.01.1990** Service defect: 'UN - EXHAUST - OMITTING BLACK SMOKE - NO.8 INJECTOR REPLACED.(TIP BROKEN)'.
**19.01.1990** Service defect: 'UN - FUEL SYSTEM INJECTORS - FUEL KNOCK - INJECTOR RACKS ADJUSTED.'.
**31.01.1990** Service defect: 'UN - ENGINE WATER LEAK - GROMMET LEAK - NO.4,9,10&12 HEAD GASKETS REPLACED.'.
**31.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**09.02.1990** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATORS - FULL RADIATOR BANK CHANGE/OUT.'.
**09.02.1990** Service defect: 'SW - DYNAMIC BRAKE - MODIFICATION - DYNAMIC PROTECTION MODIFICATION COMPLETED.'.
**23.02.1990** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - TRAIN LINE MOD. - TRAIN LINE RECEPTACLE PINS CHANGED, T/LINE PIN 20/22 INSTALLED.TESTED-MORE TESTS REQ.'.
**03.03.1990** Service defect: 'TS - DYNAMIC BRAKE CUT OUT PORT AUGUSTA SHIFT FOREMAN'.
**03.03.1990** Service defect: 'TS - ADVISED. POWER CLERK ADVISED LOCO TO DETATCH AT'.
**03.03.1990** Service defect: 'TS - PORT AUGUSTA X7261'.
**04.03.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE - B.K.B.MICRO SWITCH REPLACED A/C FAULTY.'.
**04.03.1990** Service defect: 'UN - ENGINE CYLINDER HEADS - WATER LEAK - NO 10 HEAD REPLACED A/C LEAKING WATER.'.
**04.03.1990** Service defect: 'UN - ENGINE LINER - WATER LEAK - NO'S 9 & 12 POWER ASSEMBLIES REPLACED A/C LEAKING WATER.'.
**04.05.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - R.2 BOLSTER SPRING REPLACED.(BROKEN) - SHOCK/ABSORBERS,STABILISERS & RESILIANTS OK.'.
**22.05.1990** Service defect: 'A - BOGIE - BRAKE MOD.- BRAKE HANGER MOD.COMPLETED.'.
**22.05.1990** Service defect: 'A - LOCO TO TRAIL A/C ROUGH RIDING. (22/5)'.
**24.05.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE TESTING - COMPLETED.'.
**30.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**30.05.1990** Service defect: 'WT - BOGIE MAINTENANCE - WHEELS - WHEEL PROFILE - COMPLETED.(PROFILED A/C ROUGH/RIDING)'.
**06.06.1990** Service defect: 'UN - ENGINE WATER LEAK - LOSING COOLING WATER - NO.14 JUMPER/LINE REPLACED.(PIN/HOLE)'.
**14.06.1990** Service defect: 'UN - BOGIE - LATERAL CLEARANCE - CHECKED OK.'.
**14.06.1990** Service defect: 'UN - BOGIE - THRUST/BLOCK WORN - D/SIDE NO.3 THRUST/BLOCK REPLACED. - AXLE/END CLEANED/UP A/C SLIGHT DAMAGE.'.
**28.06.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - L.1 INNER/OUTER STRAPS REPLACED. HANGER BRACKETS - REPLACED L.1 A/C BROKEN OFF'.
**28.06.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - REAR RECEPTICLE - BAKELITE SECTION REPLACED.(D/SIDE REAR) (BACK/PLATE BROKEN)'.
**02.07.1990** Service defect: 'B - BOGIE - REAR DRAW BAR REPLACED A/C CRACKEED.'.
**27.07.1990** Service defect: 'UN - BOGIE - - L.1 STABILISER REPLACED.(LEAKING)'.
**27.07.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - L.3 THRUST/BLOCK REPLACED. - NEW SET OF RESILIANTS FITTED.'.
**30.07.1990** Service defect: 'A - TO BE PROFILED A/C FLANGES L.4(8),L.5(9)&L.6(8).'.
**30.07.1990** Service defect: 'A - (30/7)'.
**02.08.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/C EX WTM.'.
**26.09.1990** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - UNLOADER PIPE TO COMPRESSOR REPAIRED.'.
**26.09.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - P3-6 CONTACTORS REPLACED,TESTED OK.'.
**28.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - DOOR SEALS - RE-POSITIONED & GLUED.'.
**28.09.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT - D/SIDE HAND/PIECE REPLACED.'.
**03.10.1990** Service defect: 'UN - DYNAMIC BRAKE - HIGH INITIATION - LOCO TESTED IN DYNAMIC WITH CL9. - LOCO NOT FAULTED.'.
**08.11.1990** Service defect: 'E - SKIM NO.2 WHEEL A/C EXCESS FLAT. (8/11)'.
**16.02.1991** Service defect: 'SW - AIR CONDITIONING - AIR/COND. - INSTALLATION COMPLETED.'.
**27.02.1991** Service defect: 'UN - AIR CONDITIONING - CLUTCH FAILURE - NIL CLUTCH IN DEPOT,RELEASED TO TRAFFIC. - RE-ROSTERED FOR REPAIRS.'.
**27.02.1991** Service defect: 'UN - TO BE RE-ROSTERED FOR AIR/COND.REPAIRS. (27/2)'.
**08.03.1991** Service defect: 'TS - AIR CONDITIONING - A/COND GUARD REPLACED OVER BELTS.'.
**08.03.1991** Service defect: 'TS - MECHANICAL

MAINTENANCE - AIR BRAKE - AIR LEAK - M.R. AND NO3 PIPE HOSES REPLACED.'.

**08.03.1991** Service defect: 'TS - OTHER BODY REPAIRS - BROKEN GLASS OVER HEADLIGHTS REPLACED.'.

**22.03.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 'A'END TRAIN PIPE COCK REPAIRED.'.

**10.04.1991** Service defect: 'UN - AIR CONDITIONING - GUARD BROKEN - AIR/COND.BELT GUARD REPAIRED.'.

**10.04.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - THIN WHEELS & ROUGH/RIDING - BOGIES EX.GM40 INSTALLED. - 'A'BOGIE(GM341),'B'BOGIE(GM342)'.

**10.04.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC FAULT - B.R.CLEANED/UP,CONTACTORS & GRIDS CHECKED OK - OPERATION OK.'.

**05.06.1991** Service defect: 'A - ENGINE WATER LEAK - LOSING WATER - NO.3 JUMPER LINE REPLACED.(CRACKED)'.

**05.06.1991** Service defect: 'A - TRACTION MOTOR BRUSHES - SHORT BRUSHES - 90

**19.07.1991** Service defect: 'SW - DYNAMIC BRAKE - HIGH INITIATION -'.

**19.07.1991** Service defect: 'SW - OTHER BODY REPAIRS - HEATER - O/S HEATER ELEMENT REPLACED.(NEW ELEMENT INSTALLED)'.

**23.07.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE ISOLATED.'.

**23.07.1991** Service defect: 'UN - DYN/BRAKE TO REPAIR.23/7.'.

**09.08.1991** Service defect: 'C - CONTACTOR INTERLOCKS - ER INTERLOCKS CLEANED,A/C ALTERNATER FAILURE LIGHT & ALARM.'.

**09.08.1991** Service defect: 'C - DYNAMIC BRAKE - DYN/BRAKE DRAWING 700A IN NOTCH 1 ON TRIAL RUN.'.

**09.08.1991** Service defect: 'C - DYN/BRAKE CUT OUT,TO BE MONITERED.9/8.'.

**03.09.1991** Service defect: 'UN - DYNAMIC BRAKE - H.T. CABLE TO GRIDS REINSULATED A/C GROUND RELAYS IN D/B.'.

**03.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - O/SIDE STEP REPLACED'.

**13.09.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - BF AUX CONTACTS CLEANED,A/C DIRTY.'.

**13.09.1991** Service defect: 'UN - DYNAMIC BRAKE SETTING - DYN/BRAKE SET UP COMPLETED.'.

**13.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CR 31 REPLACED,A/C SHORT CIRCUIT.'.

**26.09.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX.GEN.SHAFT REPLACED A/C AIR CON.BELTS REPLACED.'.

**24.03.1992** Service defect: 'F - ELECTRICAL MISCELLANEOUS - NO DYNAMIC BRAKE AND NO TRANSISSION FAULTS RECTIFIED AFTER FIRST TRIAL RUN - READY FOR TRAFFIC 1600 HRS 23/3/92.'.

**24.03.1992** Service defect: 'F - ENGINE - HEADS FITTED, 16 NO. KORODY KOLYER PISTONS. NO. 8 & 10 MAINBEARING CAPS MACHINED, TOP DECK HEAD SEATS NOT MACHINED.'.

**24.03.1992** Service defect: 'F - ENGINE - O/HAUL & V/LINE THRO' WORKING MODS COMPLETED - ENGINE X GM40SERIAL NO.64-C-48 INSTALLED. 16 NO. NEW CHROME LINERS, RECON'.

**24.03.1992** Service defect: 'F - GENERAL - LOCOMOTIVE NOT TRANSFERED TO M.P.C. OVERNIGHT A/C OPERATIONSNOT DUE TO LOCO NOT READY.'.

**24.03.1992** Service defect: 'F - OTHER BODY REPAIRS - AIR FRIDGE FITTED IN ALCOVE TO REPLACE W/COOLER & ICE BOX, 3NO. RETRACTABLE COAT HOOKS AND NEW BREMSHEY SEATS FITTED.'.

**24.03.1992** Service defect: 'F - OTHER BODY REPAIRS - BRAKE VALVES EXHAUSTED OUTSIDE LOCO, VIG ELAPSED TIME GAUGE REMOVED, CAB PAINTED TO NATIONAL STANDARD COLOURS (3TONE).'.

**24.03.1992** Service defect: 'F - OTHER BODY REPAIRS - COUPLING LIGHTS FITTED, MARKER LIGHTS MODIFIED AND RELOCATEDBOTH ENDS OF LOCO.'.

**24.03.1992** Service defect: 'F - OTHER BODY REPAIRS - DRIVERS DASH REMODELLED (A & B BOGIE BKE CYL GAUGES, SPEEDO,AND NATIONAL STANDARD FAULT LIGHTS INCORPORATED).'.

**24.03.1992** Service defect: 'F - OTHER BODY REPAIRS - FLAT BOTTOMED SUNVISORS FITTED, ALARM BELL REPLACED WITH SONALERT, CENTRE CAB LIGHT & 300 WATT HEAD LIGHTS FITTED.'.

**24.03.1992** Service defect: 'F - OTHER BODY REPAIRS - ROA CAB LOCK FITTED TO D/S DOOR, JAMMER TYPE DOOR HANDLES & EXTENSIVE SOUND PROOFING OF CAB (MEASURED LEVEL- 84 DBA MAX)'.

**24.03.1992** Service defect: 'F - OTHER BODY REPAIRS - WINDSCREEN WASHERS FITTED, SHADOW BOARD AND TOOLS FITTED IN ENGINE ROOM. BRAKE VALVES DUPLICATED BOTH ENDS.'.

**24.03.1992** Service defect: 'F - BROAD GAUGE BOGIES TO BE FITTED, IMPACT RESISTANT'.

**24.03.1992** Service defect: 'F - WINDSCREENS TO BE FITTED, HIGH SPEED TEST TO BE'.

**24.03.1992** Service defect: 'F - COMPLETED. 23/3/92.'.

**27.03.1992** Service defect: 'SW - BOGIE - WEAR PLATES ON DRAW GEAR REPLACED.'.

**27.03.1992** Service defect: 'SW - BOGIE MAINTENANCE - WICKS - WICK CHECK OK.'.

**27.03.1992** Service defect: 'SW - CONTACTOR MISCELLANEOUS - RVF14 LEFT MAIN CONTACT NOT PICKING UP PROPERLY. INTERMITTENT.CAUSING W/SLIP IN REVERSE ONLY.'.

**27.03.1992** Service defect: 'SW - ELECT. MISC. - GAUGES & INSTRUMENTS - AMMETER CHANGED.'.

**27.03.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAKS ON REAR BRAKE HOSES REPAIRED.'.

**27.03.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO BRACKET INSTALLED.'.

**27.03.1992** Service defect: 'SW - OTHER BODY REPAIRS - PAINT WORK TOUCHED UP.'.

**16.04.1992** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE CABLE REPLACED WITH NEW LUG,A/C RUBBED THROUGH -GR'S'.

**06.05.1992** Service defect: 'SW - OTHER BODY REPAIRS - TWO NEW DOOR HANDLES FITTED.ACCESS DOOR ON NOSE OF LOCO HAS NEW BRACKET AND PIN LOCKING DEVICE.OK.'.

**14.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END COUPLER REPLACED.'.

**15.06.1992** Service defect: 'A - ENGINE CYLINDER HEADS - HEAD & PISTON REPLACED, TORQUED.'.
**15.06.1992** Service defect: 'A - ENGINE LINER - NO 14 LINER REPLACED A/C CRACKED.'.
**15.06.1992** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - COUPLING LIGHT, A-END DRIVERS SIDE REPLACED.'.
**05.08.1992** Service defect: 'SW - OTHER BODY REPAIRS - IMPACT RESISTANT WINDSREENS FITTED. TINTED SIDE WINDOWS FITTED.'.
**28.08.1992** Service defect: 'SW - GENERAL - V/LINE MODS COMPLETED. AS PER LISTED ON FILE.'.
**04.09.1992** Service defect: 'B - BROKEN PIPE - OIL FEED PIPE IN TOP DECK REPAIRED. A/C BROKEN.'.
**04.09.1992** Service defect: 'B - COOLING SYSTEM RADIATOR - RIGHT HAND BANK OF RADIATORS CHECKED AND FOUND OK.'.
**04.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT - OVERSPEED REAIRED A/C NOT SHUTTING ENGINE DOWN - A/C LEVER HITS PIPE WORK. HANDLE SHORTENED AND CHECKED OK.'.
**04.09.1992** Service defect: 'B - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES CHANGED NO.1 HEAD A/C NOISEY.'.
**04.09.1992** Service defect: 'B - AIR COMPRESSOR DRIVE PULLEY U/S. 4/9/92.'.
**09.10.1992** Service defect: 'UN - GENERAL - DOOR CATCH & LATCH FITTED TO NOSE COMPARTMENT DOOR.'.
**09.10.1992** Service defect: 'UN - OTHER BODY REPAIRS - FRONT COW CATCHER MODIFIED TO SUIT WIDE (BG) BOGIES.'.
**27.10.1992** Service defect: 'UN - DYNAMIC BRAKE SETTING - DYN/BRAKE SET UP CHECKED & RESET OK, BWR SETTING SET OK. D/BPOT OK. LOCO TESTED IN MPC YARD OK.'.
**27.10.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - COUPLING LIGHT SWITCHES OK.'.
**02.11.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - BR RELAY REPLACED,A/C BURNT OUT. WIRING TO BR RELAY REPLACEDDIODE CHECKED OK.'.
**10.11.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - BKB1 CONTACTOR REPLACED, A/C BURNT OUT. RECTIFIER REPLACED.'.
**13.11.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC TIME DELAY ADJUSTED, DYNAMIC RECONNECTED.'.
**30.11.1992** Service defect: 'A - AIR CONDITIONING - WIRING TO AIR CONDITIONER CLUTCH REPAIRED.'.
**30.11.1992** Service defect: 'A - ENGINE CYLINDER HEADS - OIL RETURN PIPE ON NO 1 HEAD REPAIRED,A/C BROKEN FLARE.'.
**26.02.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - BURNT TIPS - RVR3-6 CONTACTOR REPLACED. FSD TIMING ADJUSTED A/C TOO SLOW.'.
**26.02.1993** Service defect: 'C - MECHANICAL EQUIPMENT - BROKEN DRAIN HOSE ON FRIDGE REPLACED.'.
**26.02.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK - FRONT TRAIN PIPE COCKS REPAIRED.'.
**26.02.1993** Service defect: 'C - OTHER BODY REPAIRS - NUMBER LIGHT GLASS SEAL REPLACED A/C U/S. BODY AROUND NOSE AREA FIBRE GLASSED A/C SPLIT AND PAINTED.'.
**26.02.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - BRUSH HOLDER IN NO2 T/MOTOR ADJUSTED A/C TOO HIGH.'.
**26.02.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - COMM DAMAGE - TOP BRUSH HOLDER REPLACED A/C HIT COMM. COMM CLEANED UP, HOOKED, VEED OUT AND BLOWN OUT.'.
**31.03.1993** Service defect: 'SW - BOGIE - LATERAL CLEARANCES CHECKED & ADJUSTED,RESILIENT RUBBERS REPLACED,A/C SEVERE SIDE SLAP.'.
**31.03.1993** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE REPLACED.'.
**05.04.1993** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONER BELTS REPLACED.'.
**17.04.1993** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND - ROUGH RIDING - LATERAL CLEARNCES CHECKED AND RESILIENT RUBBERS ON 'A' BOGIE OK. SHOCKIES ALL OK.'.
**28.04.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED. 1 LATERAL SHOCK CHANGED. BOLSTER SPRINGS CHECKED OK. SAFETY BRACKET BOLT TOPPED OUT & BRACKET'.
**28.04.1993** Service defect: 'UN - TRACTION MOTOR - NO 1 T/MOTOR REPLACED, A/C COMM DAMAGED & WORN BEARINGS CAUSING SIDE SLAP.'.
**25.05.1993** Service defect: 'A - RADIATOR/PRESSURISING FAN - CHANGED NO 1 FAN CONTACTOR,A/C WORN TIPS.'.
**28.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LOCO LIFTED AND INTERNAL BRAKE CYLINDER LEAK REPAIRED.'.
**22.07.1993** Service defect: 'TS - TRACTION MOTOR - NO'S 1 & 2 T/MOTORS REPLACED,A/C INTERPOLE TO EARTH.'.
**11.08.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - SPLIT PINS REPLACED, A/C MISSING IN NO'S 2,3,4 & 5 GEARCASES'.
**11.08.1993** Service defect: 'B - ENGINE - INSPECTION COVER SEAL REPLACED IN NO 15 BOTTOM COVER.'.
**11.08.1993** Service defect: 'B - OTHER BODY REPAIRS - D/S MIRROR REPLACED.'.
**13.08.1993** Service defect: 'SW - BOGIE - NEW BOLSTER SPRINGS AND PACKING PLATES FITTED. CLEARANCES 1 1/2 INCHES. BOGIES RE-CONNECTED AND DIRECTION TESTED OK.'.
**23.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES PIPE FROM REAR RHS RESERVOIR REPAIRED, A/C LEAKING.'.
**06.11.1993** Service defect: 'A - ENGINE CYLINDER HEADS - LASH ADJUSTER NO 4 CYLINDER REPLACED.'.
**06.11.1993** Service defect: 'A - TRACTION MOTOR - NO 6 T/M AIR BELLOWS REPAIRED.'.
**06.11.1993** Service defect: 'A - O/SPEED WILL NOT SHUT LOCO DOWN.6/11.'.
**25.01.1994** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - SENT TO WHEEL TURNING MACHINE, A/C 2 INCH FLATS ON NO.6 WHEEL SET.'.
**25.01.1994** Service defect: 'TS - ENGINE GOVERNOR ELECTRICAL - MICRO-SWITCH TO 'C'VALVE REPLACED, A/C SHORTED AND 'C'VALVE WAS STUCK IN.'.
**28.01.1994** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - CV MICRO SWITCH REPLACED, A/C JAMMED CLOSED.'.

**28.01.1994** Service defect: 'B - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE VALVE CHANGE - DIST VALVE, DEAD ENG DEVICE, FLOW METEREQ REV VALVE, ISOLATING COCK REPLACED. DISTRIBUTING VALVE'.
**12.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B' PACKAGE REPAIRS COMPLETED. 'D' POCKET REWELDED.'.
**13.04.1994** Service defect: 'D - FUEL SYSTEM - 60LB FUEL VALVE CHANGED, A/C FUEL IN 2ND SIGHT GLASS, FUEL STRAINER CHANGED ALSO.'.
**13.04.1994** Service defect: 'D - MAIN GENERATOR - 25 BRUSHES REPLACED ON MAIN GENERATOR.'.
**20.06.1994** Service defect: 'UN - AIR CONDITIONING - COVER OVER AIR CONDITIONER MANUFACTURED AND FITTED.'.

**GM 43**

Details: locomotive 'GM 43 A' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $249870
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 23.03.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 16.04.1997 | | |
| Last Lift: | 25.09.1992 | | |
| SW Service Mileage: | 558018 KM | SW Service Date: | 16.04.1997 |
| A Service Mileage: | 472331 KM | A Service Date: | 17.06.1996 |
| B Service Mileage: | 501909 KM | B Service Date: | 14.09.1996 |
| C Service Mileage: | 343592 KM | C Service Date: | 18.08.1995 |
| D Service Mileage: | 251180 KM | D Service Date: | 20.09.1994 |
| F Service Mileage: | 0 KM | A Service Date: | 25.09.1992 |
| WT Service Mileage: | 221954 KM | WT Service Date: | 28.06.1994 |
| US Service Mileage: | 551972 KM | A Service Date: | 28.02.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**15.07.1989** Service defect: 'UN - BOGIE - SHOE DAMAGE - 1 NO.BRAKE SHOE REPAIRED.(BURNT) THIN BLOCKS - SEVERAL BLOCKS REPLACED A/C BURNT & THIN.'.
**22.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BLOWING FUSES ON - CR4 CHANGED,BRIDGE WIRE REMOVED. JUMP/START.'.
**29.08.1989** Service defect: 'A - ELECTRICAL MISCELLANEOUS - BATTERY CHARGE RECTIFIER BRIDGE WIRE REPLACED A/C TOO HEAVY GAUGE WIRE.'.
**14.09.1989** Service defect: 'UN - BOGIE - ROUGH/RIDING - ALL RESILIANT RUBBERS INSPECTED,CHECKED OK.'.
**14.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - CABLE RENEWED.'.
**17.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - BENT PIN - TOP OF INDEPENDENT BRAKE VALVE REPLACED. - ( LOCATING PIN BENT ) BRAKE OPERATION TESTED OK.'.
**13.11.1989** Service defect: 'UN - BOGIE - BOGIE CHANGE COMPLETED'.
**16.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - ALL WICKS CHECKED OK.'.
**22.11.1989** Service defect: 'UN - FUEL SYSTEM - SPLIT FUEL TANK - PLATE WELDED ON TANK & TESTED OK.'.
**22.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - REAR DRAW GEAR REPLACED A/C CRACKED.'.
**11.01.1990** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE DISCONNECTED.'.
**15.01.1990** Service defect: 'B - DYNAMIC BRAKE - DYNAMIC FAULT - RHEOSTAT REPAIRED,REGULATION CHECKED OK.'.
**18.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF MODIFICATION COMPLETED.'.
**07.03.1990** Service defect: 'A - ENGINE LINER - NO.7 POWER ASSEMBLEY REPLACED A/C SPLIT LINER.'.
**01.04.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CONTROL/FUEL PUMP CIRCUIT BREAKER BOOKED FAULTY.CHECKED OK IN DEPOT.'.
**12.04.1990** Service defect: 'SW - OTHER BODY REPAIRS - CAB MODIFICATION - COMPLETED.'.
**24.04.1990** Service defect: 'UN - BLOCKED FILTERS - FUEL IN BY/PASS - FILTERS CHANGED.'.
**24.04.1990** Service defect: 'UN - BOGIE - - 4 NO.SHIMS ON R.4 AXLE/BOX.'.
**24.04.1990** Service defect: 'UN - BOGIE - - R.4 & L.2 THRUST BLOCKS REPLACED. - R.4 AXLE/END GROUND A/C SCORED.'.
**24.04.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - R.1,2,3,4 & L.2 STABILISERS REPLACED. - NEW SET RESILIANT RUBBERS FITTED.'.
**05.05.1990** Service defect: 'UN - BOGIE - BROKEN BRAKE STRAPS - INNER/OUTER STRAPS REPLACED.(L.3)'.
**10.07.1990** Service defect: 'TS - BOGIE MAINTENANCE - SPRINGS - MISSING BOLT REPLACED L1 SHOCKY.'.
**10.07.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAY'S - MAIN GEN. AND T/MOTORS CHECKED O.K. H.T MEGGERED 10 MEGS.'.
**24.07.1990** Service defect: 'UN - BOGIE - RESILIANTS - NEW SET INSTALLED.(SEVERAL WORN) LATERAL CLEARANCE - CHECKED OK.'.
**24.07.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - R.3&L.4 THRUST BLOCKS CHANGED.(WORN) AXLE/BOX L.4 - CLEANED OUT A/C BRASS SHAVINGS.'.
**29.08.1990** Service defect: 'UN - RADIO REPAIR - AUSTRAC FAULT - REPAIRS COMPLETED.'.
**29.08.1990** Service defect: 'UN - BOOKING ON ROUGH/RIDING. (29/8)'.
**23.09.1990** Service defect: 'UN - BOGIE - EXCESS TRAVEL - SEVERAL BLOCKS REPLACED,BRAKES ADJUSTED.'.
**23.09.1990** Service defect: 'UN - ELECT - RECEPTACLES/INTER CAR COUPLINGS - BROKEN RECEPTACLE - O/SIDE FRONT PLATE ON RECEPTACLE REPL'D. - 3 NO.PINS REPLACED.(DAMAGED)'.
**23.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - SMASHED WINDOW - D/SIDE WINDOW REPLACED.'.

**26.09.1990** Service defect: 'B - BOGIE - WORN THRUST PAD - L.4 THRUST PAD & RESILIANT CHANGED.'.
**26.09.1990** Service defect: 'B - NO.4 WHEEL/SET TO REPLACE A/C AXLE/END DAMAGE.'.
**26.09.1990** Service defect: 'B - (26/9)'.
**26.10.1990** Service defect: 'SW - BOGIE - AXLE/END DAMAGE - NO.3 WHEEL/SET,AXLE/BOXES REPLACED. RESILIANTS WORN - 5 NO. REPLACED.'.
**26.10.1990** Service defect: 'SW - BOGIE MAINTENANCE - SPRINGS - BROKEN SPRING - R.4 BOLSTER SPRING REPLACED.'.
**30.10.1990** Service defect: 'A - TO BE PROFILED A/C R.5 FLANGE (8+).'.
**02.11.1990** Service defect: 'TS - BOGIE - LOST AXLE/BOX PLUG - O/SIDE NO.3 BOTTOM PLUG REPLACED. - AXLE/BOX RE-FILLED,NO DAMAGE EVIDENT.'.
**02.11.1990** Service defect: 'TS - TRACTION MOTOR - COVER DIS-LODGED - NO.2 T/MOTOR REPOSITIONED. - (SET/SCREWS RE-FITTED)'.
**08.11.1990** Service defect: 'UN - NO FAULT FOUND - NO POWER AFTER DYNAMIC - LOCO CHECKED IN DEPOT,NOT FAULTED.'.
**18.11.1990** Service defect: 'UN - ENGINE - CRANK/CASE OPERATION - NO.16 HEAD,PISTON,PEE/PIPE & INJECTOR(PEE/PIPE BROKEN) - REPLACED.'.
**20.12.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND.INSTALLATION - COMPLETED.'.
**15.01.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - L3 (3) R3 (3 ) L4 (2) R4 (4 )'.
**15.01.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - L5 (8) R5 (8 ) L6 (5) R6 (4 ) 15/01/91'.
**15.01.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - TO BE PROFILED L1 (5) R1 (3) L2 (4) R2 (2.5)'.
**01.02.1991** Service defect: 'UN - FUEL SYSTEM INJECTORS - ENG SMOKING - NO12 INJECTOR REPLACED A/C FAULTY.'.
**05.02.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - ALL T/MOTORS CLEANED/UP.(SEVERELY FLASHED A.K.) - (SPORANIOUS VOLTAGES)'.
**05.02.1991** Service defect: 'UN - OVERHEATING - HOT ENGINE REPORT -'.
**14.03.1991** Service defect: 'UN - BOGIE - BROKEN PIPE - BRK/CYL PIPE REPLACED.(EX GM28)'.
**26.03.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE SURGING,CHECKED OK ON TEST RUN.'.
**16.04.1991** Service defect: 'UN - AIR CONDITIONING - AIR COND REGASSED.'.
**07.05.1991** Service defect: 'B - RADIO REPAIR - RADIO REPAIRED,UHF @ VHF AS PREVIOUSLY REPORTED.OPERATION TESTED ALL OKAY.'.
**07.05.1991** Service defect: 'B - NO.8 @ 16 PISTONS HAVE A SMALL AMOUNT OF RUST ON'.
**07.05.1991** Service defect: 'B - TOP TO MONITOR.DRIVERS SIDE WINDSCREEN CHIPPED IN'.
**07.05.1991** Service defect: 'B - BOTTOM RIGHT HAND CORNER.'.
**19.06.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - FOREIGN NOISE - L/H BLOWER REPLACED. OUT SERIAL NO.65F10. IN ' NO.66H84.'.
**04.07.1991** Service defect: 'SW - BATTERY MAINTENANCE - DEAD CELLS - 5 NO. BATTERIES REPLACED.'.
**04.07.1991** Service defect: 'SW - O/SIDE WATER/PUMP TO REPLACE. (4/7)'.
**05.07.1991** Service defect: 'SW - COOLING SYSTEM WATER PUMP - 2 NEW WATER PUMPS INSTALLED.'.
**09.07.1991** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PUMP REPAIRS L/S COMPLETED, A/C LEAKING.'.
**10.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - STARTING PROBLEM - 2NO.STARTING BATTERIES REPLACED.'.
**30.07.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - L4 RADIATOR REPLACED, A/C LEAKING.'.
**30.07.1991** Service defect: 'UN - GENERAL - GAUGE LIGHT GLOBES REPLACED. DRIVERS SIDE WHISTLE REPAIRED.'.
**30.07.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL FILTER LEAK REPAIRED.'.
**29.08.1991** Service defect: 'B - COOLING SYSTEM RADIATOR - NO 3 RADIATOR LHS CHANGED, A/C LEAKING.'.
**29.08.1991** Service defect: 'B - EXHAUST BOLTS TO REPLACE.'.
**10.10.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - ENGINE PROTECTION DEVICE CHANGED.'.
**16.10.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - BOTTOM BRUSH HOLDERS IN NO 2 T/MOTOR REPLACED,BRUSHES REPLACED,A/C GROUND RELAYS.'.
**24.10.1991** Service defect: 'E - BOGIE - 5 AXLE BOX THRUST RUBBERS REPLACED & ADJUSTED LATERAL CLEARANCES.L6 AXLE BOX WEAR PLATE RENEWED.'.
**24.10.1991** Service defect: 'E - ENGINE PISTON - WORN RING LAND - N08 PISTON REPLACED A/C WORN RING LAND.'.
**24.10.1991** Service defect: 'E - MECHANICAL EQUIPMENT - 'A' END COUPLER REPLACED A/C CRACKED.'.
**24.10.1991** Service defect: 'E - 'A'END COUPLER TO CHANGE.24/10.'.
**19.12.1991** Service defect: 'A - GENERAL - OBS/SIDE W/WIPER MOTOR REPLACED.'.
**03.01.1992** Service defect: 'TS - AUXILLARY MACHINES - MODIFICATION TO AUXILLARY GEN.GUARD COMPLETED.'.
**03.01.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRE TO REGENERATIVE INTERLOCK REPAIRED-A/C CAUSE OF SKIDDEDWHEELS.'.
**03.01.1992** Service defect: 'TS - TRACTION MOTOR EARTH - NO.5 T/M CHANGED. A/C ARMATURE TO FRAME.'.
**09.01.1992** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - TRANSITION TESTED OK.'.
**09.01.1992** Service defect: 'TS - TRACTION MOTOR - ALL T/MS CLEANED.-TRIAL RUN OK.-'.
**10.01.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - GENERATOR FIELD RELAY CHANGED.'.
**13.03.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REG. BRUSHES CHANGED.-COMM. CLEANED.'.
**24.03.1992** Service defect: 'B - ELECT. MISC. - GAUGES & INSTRUMENTS - BATTERY CHARGE AMMETER REPLACED.A/C U/S.'.
**24.03.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - HOT ENGINE ALARM NOT WORKING.-REPAIRED.'.
**24.03.1992** Service defect: 'B - EXHAUST - THREE EXHAUST BOLTS REPLACED.'.

**24.03.1992** Service defect: 'B - MAIN GENERATOR BRUSHES - 10 M/GEN. BRUSHES REPLACED.'.
**24.03.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - L4 SLACK ADJUSTER REPLACED.A/C STRIPPED.'.
**24.03.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 3 BRUSH HOLDERS REPLACED IN NO.1 T.M.BOTTOM;BOTTOM SIDE, TOP SIDE..NO.4 BOTTOM BRUSH HOLDER REPLACED.NO.6 T/M TOP'.
**08.04.1992** Service defect: 'TS - NO FAULT FOUND - LOCO CHECKED OK IN DEPOT,NO FAULT FOUND.LOCO SENT ON TRIAL RUN,OK,A/C GROUND RELAYS.'.
**22.04.1992** Service defect: 'TS - MAIN GENERATOR - M/GENERATOR CHECKED OK.'.
**22.04.1992** Service defect: 'TS - NO FAULT FOUND - LOCO SENT ON TRIAL RUN TO LOCATE EARTH FAULT.NO FAULT FOUND.LOCO TO TRAFFIC WITH GROUND SWITCH CAPABLE OF BEING PULLED.'.
**22.04.1992** Service defect: 'TS - TRACTION MOTOR - T/MOTORS CHECKED OK.'.
**25.09.1992** Service defect: 'F - LATER TRANSFER TO BROAD GAUGE'.
**28.09.1992** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - DIM SWITCH WIRING REPAIRED.'.
**28.09.1992** Service defect: 'SW - GENERAL - CAB REPAIRS, WINDSCREEN WIPER WASHES REPLACED.'.
**28.09.1992** Service defect: 'SW - OTHER BODY REPAIRS - BRACKETS MADE & FITTED TO STEP'.
**28.10.1992** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CONTROL EARTH FOUND ON VIGILANCE AIR PRESSURE SWITCH IN VIG BOX. VIGILANCE NOW WORKING.'.
**28.10.1992** Service defect: 'TS - TRACTION MOTOR - T/MOTOR BLOWER BENEATH WATER TANK REPLACED, A/C NOISY.'.
**28.10.1992** Service defect: 'TS - L.H.WATER PUMP TO CHANGE NEXT SERVICE, A/C LEAKING'.
**28.10.1992** Service defect: 'TS - WHEN COLD.28/10.'.
**02.11.1992** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - LOCO SENT ON TRIAL RUN, A/C GR'S, NO FAULT FOUND.'.
**16.11.1992** Service defect: 'A - COOLING SYSTEM WATER PUMP - LHS WATER PUMP CHANGED.'.
**16.11.1992** Service defect: 'A - ENGINE - RETORQUE COMPLETED.'.
**27.11.1992** Service defect: 'SW - AIR CONDITIONING - AIR CONDITIONER COMPRESSOR CLUTCH REPAIRED, TESTED OK.'.
**30.01.1993** Service defect: 'B - COOLING SYSTEM WATER PUMP - L.H. WATER PUMP CHANGED, A/C LEAKING WHEN COLD.'.
**15.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO DRIVE & SPEEDO HEAD REPLACED,A/C BROKEN.'.
**15.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE STEPS REPLACED,A/C COLLISION.'.
**26.07.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER PIPE REPAIRED, A/C LOOSE.'.
**18.08.1993** Service defect: 'TS - BOGIE - SHOCKER BUSHES REPAIRED. WASHERS IN WRONG PLACE.'.
**18.08.1993** Service defect: 'TS - GENERAL - CLOCK ROLL REMOVED BY INSPECTOR.'.
**18.08.1993** Service defect: 'TS - GENERAL ACCIDENT - COUPLING HANDLE STRAIGHTENED. COUPLING LIGHT REPAIRED A/C DAMAGED IN ACCIDENT WITH CAR AT LEVEL CROSSING.'.
**08.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - OBS/SIDE MAIN RES PIPE RETHREADED & FITTINGS TIGHTENED. TRAIN PIPE COCK TIGHTENED, BOTH ON 'A'END.'.
**18.10.1993** Service defect: 'A - BOGIE - AXLE BOXES TOPPED UP. SUSPENSION BEARINGS TOPPED UP.'.
**18.10.1993** Service defect: 'A - RADIATOR LEAKS TO MONITOR.15/10.'.
**30.11.1993** Service defect: 'UN - BOGIE - BOGIE ROTATION COMPLETED. DIRECTION TESTED OK.'.
**06.01.1994** Service defect: 'B - ELECTRICAL MISC - LOAD REGULATOR - LOAD REG. BRUSHES CHANGED, A/C OUTSIDE ONE DOWN TO PIGTAILS.OTHER BRUSH BADLY BURNT. TO BE MONITORED.'.
**06.01.1994** Service defect: 'B - ELECTRICAL MISC. JUMPER CABLES - 'B'END JUMPER RECEPTICLE REPAIRED, A/C LOCO DRIVEN OFF WITH CABLE STILL ATTACHED.'.
**06.01.1994** Service defect: 'B - GENERAL - COOLANT DRAIN COCK TIGHTENED, A/C LEAKING. ELECT. CABINET DOOR RE-SEALED.'.
**06.01.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - NO.1 T/M TOP BRUSH HOLDER REPLACED, A/C COULD NOT FIT BRUSHES IN.'.
**06.01.1994** Service defect: 'B - LOAD REG. BRUSHES EXESSIVE WEAR, TO MONITOR.6/1/94'.
**27.01.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPES REPAIRED, A/C DAMAGED IN DERAILMENT. ACCIDENT COST CODE W.C.81.'.
**26.03.1994** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - COUPLERS LEVERS STRAIGHTENED.'.
**26.03.1994** Service defect: 'A - RADIATOR/PRESSURISING FAN - O/S FRONT FAN NOT WORKING - ONE PHASE WIRE REPLACED FROM CONTACTOR TO FAN. CHECKED OK.'.
**31.05.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - RUF14 AND RUF2 CONTACTORS CHANGED.'.
**31.05.1994** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION CHECKED OK.'.
**31.05.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - POWER AND DYN SEQUENCE CHECK COMPLETED.'.
**31.05.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - NEW BRUSHES INSTALLED IN ALL T/MOTORS.'.
**18.06.1994** Service defect: 'B - BOGIE - R1 RESILIENT THRUST PAD AND BRASS CHANGED, A/C OVERHEATING.'.
**18.06.1994** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - WIRING REPAIRS IN D/STAND COMPLETED, A/C MELTED.'.
**18.06.1994** Service defect: 'B - EXHAUST - NO 9 EXHAUST STACK REPAIRED.'.
**01.07.1994** Service defect: 'UN - TRACTION MOTOR - T/MOTOR BLOWER CHANGED, A/C NOISY. TESTED OK.'.

**GM 44**

Details: locomotive 'GM 44 J' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $249870
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 26.04.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

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|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 05.09.1986 | | |
| SW Service Mileage: | 970166 KM | SW Service Date: | 27.10.1995 |
| A Service Mileage: | 1209746 KM | A Service Date: | 11.01.1997 |
| B Service Mileage: | 1241269 KM | B Service Date: | 03.10.1996 |
| C Service Mileage: | 937224 KM | C Service Date: | 24.06.1995 |
| D Service Mileage: | 815502 KM | D Service Date: | 22.07.1994 |
| E Service Mileage: | 1185001 KM | A Service Date: | 05.10.1996 |
| F Service Mileage: | 471140 KM | A Service Date: | 05.09.1986 |
| WT Service Mileage: | 743267 KM | WT Service Date: | 27.01.1994 |
| US Service Mileage: | 1240929 KM | A Service Date: | 05.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**03.07.1989** Service defect: 'UN - WHEELSLIP - * WHEEL/SLIP & BRAKE WARNING IS INDICATED ON SAME LIGHT *'.
**03.07.1989** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP IN DYNAMIC - D.B.R.REPLACED.(NOT REGULATING) ABOVE 300-500 AMPS. - DYNAMIC OPERATION TESTED OK.'.
**14.07.1989** Service defect: 'E - BOGIE MAINTENANCE - WHEELS - L6 WHEEL REPLACED A/C OUT ON THE G GAUGE.'.
**31.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - 2 NO. BATTERIES REPLACED.'.
**31.08.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - RVF2 CHANGED A/C CONTACTS NOT MAKING.'.
**31.08.1989** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE REGULATOR CHANGED A/C U/S. D/BRK GROUND RELAY CIRCUIT INSTALLED,D/BRK ISOLATION SWITCH INSTALLED.'.
**31.08.1989** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - 3 NO.GRIDS REPLACED ON D/S A/C FIRE. DYN BRAKE FAN MOTOR O/HAULED. H.T.CABLES REPAIRED.'.
**31.08.1989** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - OIL COOLER - REPLACED.'.
**31.08.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - BOGIE CHANGED A/C SEVERE FLASHOVERS IN NO.3 & 6 TRAC MOTORS..'.
**31.08.1989** Service defect: 'UN - WHEELSLIP - BRAKE WARNING LIGHT SEPERATED FROM WHEELSLIP LIGHT. LOCO TEST RUN OK.'.
**15.09.1989** Service defect: 'UN - LUBRICATING SYSTEM - HIGH LEAD READING - ENG/OIL & FILTERS CHANGED.'.
**30.10.1989** Service defect: 'UN - COOLING SYSTEM WATER PUMP - R/H WATER PUMP REPLACED A/C LEAKING.'.
**07.11.1989** Service defect: 'UN - CONTACTOR INTERLOCKS - NO AMPS AFTER DYN BRAKE - INTERLOCKS M1-M2 ON THE BR RELAY CLEANED A/C HIGH RESISTANT.'.
**08.01.1990** Service defect: 'UN - BOGIE - WORN BLOCKS - ALL BRAKE BLOCKS REPLACED & BRAKES ADJUSTED.'.
**12.01.1990** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - GRID HOLED - ALL GRIDS REPLACED D/SIDE.(NEW GRIDS NO.2&3)'.
**12.01.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MOD COMPLETED.'.
**25.02.1990** Service defect: 'UN - BOGIE - LUBRICANT CHECK - COMPLETED.'.
**25.02.1990** Service defect: 'UN - GENERAL ACCIDENT - DERAILMENT EXAM - BOGIES, UNDERFRAME, GEARS, GEARCASES, T/MOTORS & CABLES CHECKED FOR DAMAGE.'.
**24.03.1990** Service defect: 'UN - BOGIE - BENT HORN/STAYS - R.1-R.6 HORNSTAYS STRAIGHTENED. - (ALL HORNSTAYS BENT ON O/SIDE)'.
**25.03.1990** Service defect: 'UN - BOGIE - WORN THRUST PAD - R.6 THRUST PAD REPLACED. BRASS FILINGS - AXLE/BOX DRAINED,WASH-OUT & RE-FILLED.'.
**11.05.1990** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - BROKEN YOKE - REAR DRAW GEAR ASSEMBLY REPLACED.'.
**14.05.1990** Service defect: 'SW - DYNAMIC BRAKE - GRID REPLACEMENT - 3 NO.GRIDS REPLACED.(O/SIDE)'.
**08.06.1990** Service defect: 'B - BOGIE - BRAKE HANGER MOD COMPLETED.'.
**08.09.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT - CABLE REPLACED.'.
**08.09.1990** Service defect: 'UN - OTHER BODY REPAIRS - COLLAPSED WINDER - O/SIDE CAB WINDOW/WINDER REPAIRED.'.
**14.09.1990** Service defect: 'B - VIGILANCE CONTROL MODIFICATION. (14/9)'.
**21.09.1990** Service defect: 'SW - AUXILLARY MACHINES - AUX/GEN - REPLACED A/C PULLEY FITTED FOR AIR/COND.MODS.'.
**18.10.1990** Service defect: 'D - RETURN TO ISLINGTON FOR AIR COND.TESTING'.
**08.11.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND.CHECK - COMPLETED.'.
**22.11.1990** Service defect: 'TS - AIR CONDITIONING - BEARING FAILURE - COMM END BEARING IN AUX/GEN.REPLACED.'.
**03.12.1990** Service defect: 'UN - NO FAULT FOUND - AIR/COND.FAULT - UNIT OPERATION CHECKED IN DEPOT.(NO FAULT)'.
**18.01.1991** Service defect: 'A - BOGIE - L3-10 R3-6 L4-5 R4-5'.
**18.01.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - L5-10 R5-3 L6-10 R6-4'.
**18.01.1991** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - WHEEL READING 18/01/1991 L1-8.5 R1-2 L2-3 R2-2'.

**18.01.1991** Service defect: 'A - WHEEL TO BE PROFILED A/C - L1 (8.5) L3 (10) L5(10)'.
**18.01.1991** Service defect: 'A - L6 (10).'.
**31.01.1991** Service defect: 'UN - GENERAL - 'A' END DRAWGEAR REPLACED.'.
**17.02.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK - SIGHT GLASS COCK REPAIRED.'.
**17.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULTY - MECHANISM & CABLE REPLACED. - OUTER CABLE ADJUSTED ALSO.'.
**22.02.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - COULDN'T MAINTAIN BRK/PIPE - AIR LEAKS REPAIRED,TESTED OK.'.
**14.03.1991** Service defect: 'B - ENGINE CYLINDER HEADS - NO7 CYLINDER HEAD REPLACED.'.
**22.03.1991** Service defect: 'UN - DYNAMIC BRAKE - HIGH AMPS ON INITIATION - REGULATION ADJUSTED.'.
**22.03.1991** Service defect: 'UN - CONTROL EARTH ON CONTROL TO REPAIR. (22/3)'.
**02.05.1991** Service defect: 'TS - BOGIE - AXLE/BOX FAILURE - NO.6 WHEEL/SET & T/MOTOR REPLACED. (NO.6 WHEEL) - (FAILED ON TRAIN NO.3AP6)'.
**02.05.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - VALVE BLOWING - HIGH PRESSURE DISCHARGE VALVE REPLACED.'.
**13.06.1991** Service defect: 'A - HEATER ELEMENT TO INSTALL,ELEMENT S/CODE 838/6.*'.
**13.06.1991** Service defect: 'A - 14/6.'.
**16.08.1991** Service defect: 'C - AUXILLARY MACHINES - AUX GEN FIELD FUSE REPLACED, A/C BLOWN.'.
**16.08.1991** Service defect: 'C - BOGIE - NO 3 GEARCASE REPAIRED.'.
**16.08.1991** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - EARTH WIRE REPLACED,NO 2 MOTOR.'.
**16.08.1991** Service defect: 'C - ENGINE CYLINDER HEADS - NO 3 CYCLINDER HEAD CHANGED, A/C RING LANDS.'.
**16.08.1991** Service defect: 'C - ENGINE PISTON - NO 3 PISTON CHANGED, A/C RING LANDS.'.
**16.08.1991** Service defect: 'C - OTHER BODY REPAIRS - FUEL SIGHT GLASS REPLACED.'.
**27.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS GAUGED.'.
**27.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST COMPLETED,SENT TO WTM.'.
**10.09.1991** Service defect: 'UN - WHEELSLIP - INTERMITTANT WHEEL/SLIP - LOCO CHECKED IN DEPOT,NOT FAULTED.IN POWER & DYNAMIC.'.
**18.09.1991** Service defect: 'TW - ELECTRICAL MISC. GROUND RELAY - G/RELAY IN DYNAMIC - GRIDS & CONTACTORS CHECKED OK. - H.T.MEGGERED 1.8'.
**18.09.1991** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - FAULTY SWITCH - HEAD/LIGHT DIM SWITCH REPLACED. - SEAL/BEAM REPLACED.(BLOWN)'.
**16.10.1991** Service defect: 'A - GENERAL - D/SIDE SEAT BACK REPLACED.'.
**16.10.1991** Service defect: 'A - RADIATOR/PRESSURISING FAN - REAR PRESSURISING FAN CANVASS DUCT REPLACED.'.
**23.03.1992** Service defect: 'A - - FIELD SHUNT CONTACTOR INSULATOR BAR REPLACED.'.
**23.03.1992** Service defect: 'A - AIR CONDITIONING - AIR-CON. COMPRESSOR DRIVE BELTSREPLACED.A/C BROKEN.'.
**23.03.1992** Service defect: 'A - AUXILLARY MACHINES - AUXILLARY GEN. VINYL BLOWER DUCT REPLACED.A/C TORN.'.
**23.03.1992** Service defect: 'A - BOGIE - AIR LEAK ON 'A' BOGIE REPAIRED.'.
**23.03.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - FS CONTACTOR BRACE ARM REPAIRED.-A/C BROKEN SCREW ALLOWING ARMATURE OF CONTACTORTORELEASE TOO FAR.'.
**23.03.1992** Service defect: 'A - LUBRICATING SYSTEM - OIL LINE ABOVE NO.8 HEAD REPLACED. A/C CRACKED AND FITTING ON ONE END U/S.'.
**23.03.1992** Service defect: 'A - MAIN GENERATOR BRUSHES - 20 MAIN GEN. BRUSHES REPLACED.'.
**23.03.1992** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE FAULT REPAIRED.'.
**23.03.1992** Service defect: 'A - TRACTION MOTOR - 35 T/M BRUSHES REPLACED.'.
**04.06.1992** Service defect: 'UN - ENGINE - NO'S 1, 4 & 9 POWER ASSEMBLYS REPLACED.NO 4 INJECTOR RESEATED OK,A/C LEAKING PAST SEAT.SLIP RINGS REPLACED.LOCO'.
**10.06.1992** Service defect: 'B - EXHAUST - EXHAUST COVER REPAIRED AND REFITTED'.
**07.07.1992** Service defect: 'UN - BROKEN PIPE - OIL LINE TO GOVERNOR LOAD REGULATOR REPLACED.'.
**07.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED.-CHECKED OK.'.
**07.07.1992** Service defect: 'UN - RHS WATER PUMP TO MONITOR A/C SEAL WEEPING.'.
**21.10.1992** Service defect: 'TS - BOGIE - BOGIE CHANGE COMPLETED.BOGIE IN 'A' END - GM331. 'B' END - GM219. R4 AXLE BOX REMOVED & NEW ONE FITTED.'.
**04.11.1992** Service defect: 'TS - ENGINE PISTON - NO 1 PISTON CHANGED. SNAP RING REMOVED, PISTON REMOVED - NEWONE REFITTED, HEAD REFITTED.'.
**18.12.1992** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE GRIDS CHECKED OK,HOT BOLT REPLACED. DYN BLOWER MOTOR OK, BLOWN OUT. GRID CABLES - CLEATS RE-INSULATED RVI'.
**18.12.1992** Service defect: 'UN - TRACTION MOTOR - T/M'S CHECKED OK,A/C GR'S. NO2 CABLES TIED UP , A/C RUBBING.'.
**09.01.1993** Service defect: 'TS - COOLING SYSTEM WATER PUMP - R.H.S.WATER PUMP SEAL REPAIRED.OK.'.
**09.01.1993** Service defect: 'TS - FUEL SYSTEM INJECTORS - NO6,INJECTOR CHANGED .OK.'.
**09.03.1993** Service defect: 'UN - BOGIE - 'A'END BOGIE CHANGE COMPLETED. SLACK ADJUSTERS REPLACED OK.'.
**09.03.1993** Service defect: 'UN - GENERAL - MIRROR FITTED.'.
**09.03.1993** Service defect: 'UN - TRACTION MOTOR - NO 3 T/M PIGTALE BOLT REPLACED, A/C MISSING.'.
**09.03.1993** Service defect: 'UN - VIGILANCE - NEW VIG BUTTON FITTED.'.
**26.03.1993** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - BOLTS REPLACED ON PLATE UNDER 'A'END PACKAGE, A/C LOOSE & UNABLE TO UNDO.'.
**26.03.1993** Service defect: 'A - BEE HIVE COVER TO REPLACE

(WHEN AVAILABLE).26/3.'.

**26.03.1993** Service defect: 'A - BOTH SEATS TORN. NO 1 T/M COMM HAS DARKER FILM'.

**26.03.1993** Service defect: 'A - THAN MORMAL WITH SLOT BAR MARKING.26/3.'.

**08.04.1993** Service defect: 'UN - NO FAULT FOUND - MECH INSPECTION COMPLETED,NO FAULT FOUND,A/C CRANKCASE EXPLOSION. ENGINE FILLED UP WITH OIL,RUN UP & CHECKED OK. BLOWER'.

**18.05.1993** Service defect: 'UN - BOGIE - 3 SHOCKERS ON 'A'END BOGIE REMOVED & INSTALLED CORRECTLY, (FOUND TO BE UPSIDE DOWN). LOCO OK ON TRIAL RUN.'.

**18.05.1993** Service defect: 'UN - GENERAL - BOTH SEATS RECOVERED.'.

**18.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOV COCK CHANGED.'.

**18.06.1993** Service defect: 'C - BOGIE - R3 SLACK ADJUSTER REPAIRED,A/C SEIZED. L3 AXLE BOX OIL CHANGED - BEARING INSPECTED OK.'.

**18.06.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - R6 & L6 WICK OIL CHANGED,A/C DIRTY.'.

**18.06.1993** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - GOV LOW OIL SWITCH REPLACED.'.

**18.06.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE DUMMY COUPLING REPLACED.'.

**18.06.1993** Service defect: 'C - RADIATOR/PRESSURISING FAN - PRESSURISING FAN CANVAS COVER REPLACED. PRESSURISING FAN FILTERS CHANGED,A/C INCORRECTLY FITTED.'.

**18.06.1993** Service defect: 'C - VIGILANCE - VIGILANCE REPAIRED.'.

**17.09.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - NEW SPEEDO CABLE REPLACED.'.

**17.09.1993** Service defect: 'A - GENERAL - D/SIDE WHISTLE CORD REPLACED, A/C BROKEN. CAB HEATERS REPAIRED.'.

**17.09.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - 3 SAND PIPE NOZZLES REPLACED ON 'A'END BOGIE.'.

**17.09.1993** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RES HOSE 'B'END REPLACED. T/PIPE DUMMY COUPLING REPLACED 'A'END. T/PIPE COCK 'B'END SECURED WITH 'U'BOLT.'.

**17.09.1993** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - NO'S 3,4 & 6 WHEELSETS CHANGED.'.

**30.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE TEST COMPLETED, OK. MAIN RESERVOIR PIPE DRIVERS SIDE 'A'END REPAIRED.'.

**06.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDENT BRAKE VALVE GASKET REPLACED.'.

**06.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR BRAKE TEST DONE A/C SKIDDED WHEELS. BRAKE TEST CHECKED OUT OK. AIR STRAINERS IN AIR LINES CLEANED, PIPES BLOWN OUT.'.

**06.10.1993** Service defect: 'UN - NO FAULT FOUND - INTERMITTENT NON RELEASE OF BRAKES ON 'B'END WAS INITIALLY BOOKED. NO FAULT WAS FOUND ON TESTS.'.

**12.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SENT TO TRAFFIC A/C NEEDED. Q/FIX ADVISED TO DO MULTIPLE BRAKE TEST WHEN BACK FROM TRAFFIC.'.

**13.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TESTED OK AS SINGLE UNIT. MULTIPLE UNIT TEST SHOWED THAT THE INDEPEDENT WOULD NOT RELEASE. INDEPENDENT REPLACED.'.

**16.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ELECT CABINET DOOR RIVETED BACK ON.'.

**16.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST COMPLETED OK INCLUDING MULTIPLE UNIT WITH BL34 BOTH 'A'& 'B'ENDS. ALL BRAKE CYLINDERS GREASED & CYLINDERS'.

**12.11.1993** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - CHANGED DISTRIBUTING VALVE, AIR BRAKE TESTED, SLIGHT LEAK FEEDING NO 3 CONTROL PIPE.'.

**12.11.1993** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED BY B.POTTS 10/11.'.

**18.11.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE CHANGED. DISTRIBUTING VALVE CHANGED.'.

**18.11.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MULTIPLE UNIT TEST OK.'.

**30.11.1993** Service defect: 'B - BOGIE - L6 SLACK ADJUSTER CHANGED.'.

**30.11.1993** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - WIRES RECONNECTED ON BACK OF W/SLIP LIGHT.'.

**30.11.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - LUGS REPLACED ON DYN/BRAKE RESISTOR IN DRIVERS CONTROL STANDLUG REPLACED ON SLIPRING BRUSH HOLDER.'.

**30.11.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - T/PIPE HOSE REPLACED DRIVERS SIDE 'A'END. MULTI-UNIT BRAKE TEST - CHECKED OK.'.

**20.01.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL 6 B/CYLINDERS REPLACED ON 'A'BOGIE, A/C LEAKING. CYLINDERS GREASED AND BRAKES ADJUSTED. BRAKE TEST OK.'.

**11.02.1994** Service defect: 'A - ENGINE - NO.3 FUEL RACK SPRING CLIP REPLACED, A/C MISSING.'.

**11.02.1994** Service defect: 'A - ENGINE PISTON - RINGS ON NO.6 AND 17 WORN ON END NEXT TO GAP.'.

**11.02.1994** Service defect: 'A - PEE PIPE - 'P'PIPE ON NO.14 CHANGED.'.

**11.02.1994** Service defect: 'A - VALVE BRIDGE/LASH ADJUSTER - NO.5, 9 AND 16 VALVE BRIDGES ADJUSTED, A/C NOISY.'.

**15.02.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - 'B'END T/M'S INSPECTED, A/C TEST BRUSHESAC137'S. TEST RESULTS GIVEN TO STEVE ADAMS.'.

**03.03.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK ON PIPE TO LOAD REGULATOR REPAIRED.'.

**03.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE EXHAUST RELOCATED.'.

**03.03.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - BEEHIVE PRESSURISING FAN CANVASS COVER REPLACED.'.
**15.03.1994** Service defect: 'SW - AIR CONDITIONING - AIR-COND. COMPRESSOR REPLACED. LOCO TO TRAIL, A/C CLUTCH TOBE REPLACED.'.
**05.04.1994** Service defect: 'TS - BOGIE - BRAKE GEAR REINSTALLED AND W/SET LUBE COMPLETED.'.
**05.04.1994** Service defect: 'TS - TRACTION MOTOR - NO 2 T/MOTOR REPLACED, A/C INTERPOLES TO EARTH. T/M OUT- 54E113. T/M IN- 69D1-1633.'.
**21.04.1994** Service defect: 'TS - DYNAMIC BRAKE - DB INTERLOCK MAGNET VALVE REPLACED, A/C REMOVED FOR 961.'.
**21.04.1994** Service defect: 'TS - ENGINE PISTON - NO'S 1,6 AND 7 PISTONS REPLACED, DROPPED VALVE ON NO 1, AND WORN RINGLANDS ON NO'S 6 AND 7. LOCO FILLED WITH WATER AND'.
**06.05.1994** Service defect: 'B - BOGIE - HORNSTAY WEAR PLATES WELDE, A/C CRACKED.'.
**06.05.1994** Service defect: 'B - CAM SHAFT - 8,9,10 AND 11 CAMSHAFT CHANGED, A/C WORN LOBE.'.
**06.05.1994** Service defect: 'B - COOLING SYSTEM - WATER CHANGED.'.
**06.05.1994** Service defect: 'B - ENGINE CYLINDER HEADS - NO 8 HEAD CHANGED, A/C LOW COMPRESSION.'.
**06.05.1994** Service defect: 'B - L4 HORNSTAY LINER TO REPLACE.6/5.'.
**25.05.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - B.P. PRESSURE ADJUSTED TO 70PSI. 135PSI SAFETY VALVE REPLACED.'.
**25.05.1994** Service defect: 'UN - NO FAULT FOUND - TRANSITION CCT CHECKED OK, STATICALLY AND WITH M.G.SET. NO FAULT EVIDENT.'.
**25.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE MIRROR TIGHTENED.'.
**08.06.1994** Service defect: 'SW - BOGIE - L4 AND R4 BOLSTER NUTS TIGHTENED, A/C LOOSE. NO 4 GEARCASE BOLTS TIGHTENED. 'A'END AND 'B'END CENTRE CASTING BOLTS'.
**99.99.9999** Service defect: 'B - B SCHEDULED SERVICE'.

**GM 45**

Details: locomotive 'GM 45 S' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $249870
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 22.05.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 03.03.1997 | | |
| Last Lift: | 06.10.1994 | | |
| SW Service Mileage: | 542286 KM | SW Service Date: | 04.11.1996 |
| A Service Mileage: | 537116 KM | A Service Date: | 17.10.1996 |
| B Service Mileage: | 582331 KM | B Service Date: | 03.03.1997 |
| C Service Mileage: | 103700 KM | C Service Date: | 30.06.1995 |
| D Service Mileage: | 894086 KM | D Service Date: | 31.05.1991 |
| E Service Mileage: | 582232 KM | A Service Date: | 17.01.1990 |
| F Service Mileage: | 1258630 KM | A Service Date: | 06.10.1994 |
| WT Service Mileage: | 10039 KM | WT Service Date: | 14.04.1993 |
| US Service Mileage: | 563809 KM | A Service Date: | 09.01.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**18.07.1989** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - D/SIDE BLOWER OIL DRAIN PIPE REPAIRED.'.
**24.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - FOREIGN NOISE - HIGH PRESSURE DISCHARGE VALVE TIGHTENED. - COMPRESSOR GOVN ADJUSTED.'.
**14.09.1989** Service defect: 'UN - TRACTION MOTOR EARTH - EARTH FAULT - NO.5 T/MOTOR REPLACED.(O.C.C.FIELD)'.
**27.10.1989** Service defect: 'TS - BLOCKED FILTERS - BLOCKED BLOWER FILTERS - AIR FILTERS CHANGED.(FARR)'.
**27.10.1989** Service defect: 'TS - OVERHEATING - THERMOSTATS PICKED UP OK & TESTED OK.FANS OK,A/C O/HEATING.'.
**05.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT TRAIN PIPE REPAIRED A/C BROKEN.'.
**21.11.1989** Service defect: 'B - ENGINE - BASKET BOLTS RETORQUED.'.
**21.11.1989** Service defect: 'B - ENGINE WATER LEAK - WATER SIGHT GLASS REPAIRED A/C LEAKING.'.
**21.11.1989** Service defect: 'B - GENERAL - ICE BOX REPLACED A/C RUSTED OUT.'.
**24.12.1989** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - COPPER PIPE TO LOAD/REGULATOR REPAIRED. (OIL LEAK)'.
**01.01.1990** Service defect: 'UN - NO FAULT FOUND - HOT ENGINE SHUT/DOWN - BAFFLE PLATES,CEILING SHEETS CHECK OK - FANS CHECKED,OIL PRESSURE CHECKED OK.'.
**17.01.1990** Service defect: 'E - DYNAMIC BRAKE - DYNAMIC FAULT - D/BRK RHEOSTAT REPLACED.(MECHANICAL FAILURE) - ECON.RESISTOR BKP2 REPAIRED.'.
**17.01.1990** Service defect: 'E - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**22.01.1990** Service defect: 'UN - NO FAULT FOUND - NO INDEPENDANT WHEN TRAILING - LOCO NOT FAULTED. - FAULT WITH CL11.'.
**30.01.1990** Service defect: 'UN - BODY REPAIRS - ACCIDENT - RECEPTICLE DAMAGE - FRONT RECEPTICLE BODY REPLACED.(BROKEN) * COLLISION *'.
**02.02.1990** Service defect: 'WT - REMOVED 20MM. FROM ALL WHEELS.'.
**04.05.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - ALL BRUSHES CHANGED IN NO2 TM A/C PIGTAILS & SHATTERED BRUSHES.'.
**04.05.1990** Service defect: 'UN - NO2 TM REQUIRES URGENT GRINDING A/C BAD FLATS &'.
**04.05.1990** Service defect: 'UN - BREAKING BRUSHES.4/5*'.

**10.05.1990** Service defect: 'A - BOGIE - BRAKE HANGER MOD - COMPLETED.'.
**31.05.1990** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - ELECTRICAL MODS - DYNAMIC BRAKE CUT OUT SWITCH INSTALLED.'.
**31.05.1990** Service defect: 'SW - NO.6 WHEEL TO BE CHANGED A/C FLATS (TOO THIN TO'.
**31.05.1990** Service defect: 'SW - TURN - (31/5).'.
**06.06.1990** Service defect: 'UN - BOGIE - WHEELS THIN - O/HAULED BOGIES INSTALLED.'.
**16.06.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP OPERATION - LOCO NOT FAULTED IN DEPOT.'.
**04.07.1990** Service defect: 'UN - WHEELSLIP - WHEELSLIP - FIELD SHUNT CABLES (3) REPLACED A/C CORRODED LUGS. W/SLIP RELAYS ADJUSTED TO 20MA. TESTED O.K.'.
**29.07.1990** Service defect: 'UN - L 2 BRK CYL TO RECONNECT,BROKEN NIPPLE TO REMOVE.'.
**14.08.1990** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - L.1 BRAKE CYLINDER PIPE REPAIRED. BRAKES CUT/OUT.'.
**01.09.1990** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE - L.1 BRK/CYLINDER PIPE REPAIRED.'.
**08.09.1990** Service defect: 'UN - BOGIE - SEIZED BRK/CYLINDER - NO.3 D/SIDE BRK/CYLINDER REPLACED. (PISTON WOULDN'T RETURN)'.
**20.09.1990** Service defect: 'TS - WHEELSLIP - CONTINUOUS WHEEL/SLIP - P2/5 CONTACT FACE CLEANED/UP.'.
**06.10.1990** Service defect: 'UN - BOGIE - L/H NO.3 AND R/H NO.1 BRAKE STRAPS REPLACED,NO.1 DUST COVER SHIELD REPLACED'.
**22.10.1990** Service defect: 'UN - BOGIE - AIR PIPE TO BRAKE CYLINDER LHS 'A'END REPAIRED.'.
**27.10.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - D/SIDE NO.1 INNER BRAKE STRAP REPLACED.'.
**31.10.1990** Service defect: 'A - BOGIE - WORN RESILIANTS - L.1,R.1-6 RESILIANTS REPLACED.'.
**14.12.1990** Service defect: 'SW - AIR CONDITIONING - AIR/COND INSTALLATION - COMPLETED.'.
**21.12.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND.- RE-ALIGNED & BELTS FITTED.'.
**21.12.1990** Service defect: 'UN - CONTACTOR WELDED - CONTACT TIPS - S45 TIPS REPLACED.'.
**07.01.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT - FSR1 PICK/UP.'.
**11.01.1991** Service defect: 'UN - AIR/COND.REPAIRS TO BE COMPLETED. (11/1)'.
**01.02.1991** Service defect: 'UN - AUXILLARY MACHINES - AIR/COND RE-ALIGNED & BELTS TENSIONED.'.
**01.02.1991** Service defect: 'UN - AIR CONDITIONER COMPRESSOR ALIGNMENT TO BE CHECKED'.
**01.02.1991** Service defect: 'UN - APROX 07/02/1991.'.
**13.02.1991** Service defect: 'UN - AIR CONDITIONING REPAIRS AT PORT AUGUSTA'.
**14.02.1991** Service defect: 'SW - AIR CONDITIONING - CLUTCH FAILURE - AIR/COND CLUTCH REPLACED,BELTS RE-FITTED. - UNIT RE-GASSED.'.
**14.02.1991** Service defect: 'SW - ELECT. MISC. - GAUGES & INSTRUMENTS - FAULTY GAUGE - BCP GAUGE REPLACED.'.
**22.02.1991** Service defect: 'UN - AIR CONDITIONING - THROWN BELTS - NEW BELTS FITTED & ADJUSTED.'.
**22.02.1991** Service defect: 'UN - ENGINE - * LOCO RE-ROSTERED FOR BELT RE-FIT 26/2 *'.
**31.05.1991** Service defect: 'D - BOGIE MAINTENANCE - WICKS - L1 R1 L2 L3 WICKS CHANGED.'.
**31.05.1991** Service defect: 'D - CONTACTOR MISCELLANEOUS - CONTACTS MELTED ON BKP2 CONTACTOR,WHOLE UNIT CHANGED.'.
**31.05.1991** Service defect: 'D - ENGINE PISTON - NO 9 PISTON CHANGED,A/C EXCESS RING LAND CLEARANCE.'.
**31.05.1991** Service defect: 'D - GENERAL - OBS/SIDE HEATER INSTALLED.'.
**31.05.1991** Service defect: 'D - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE CHANGED,A/C AIR LEAKING WHEN INDEPENDENT APPLIED.'.
**04.06.1991** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - BRUSH HANGING NO1 T/MOTOR.REPAIRED. FAILED TRAIN NO.2255 OLARY SECTION.'.
**04.07.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - BKP2 CONTACTOR CHANGED, A/C BLOWN CONTACT TIPS.'.
**04.07.1991** Service defect: 'TS - DYNAMIC BRAKE - DYN/BRAKE GRIDS CHECKED OK.'.
**04.07.1991** Service defect: 'TS - MAIN GENERATOR - MAIN GEN CHECKED OK.'.
**04.07.1991** Service defect: 'TS - TRACTION MOTOR BRUSHES - 20 BRUSHES CHANGED, A/C BLOWN OFF PIGTAILS.'.
**18.07.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING REPAIRED, A/C WOULD NOT START.'.
**18.07.1991** Service defect: 'UN - WHEELSLIP - WHEELSLIP REPAIRED,BKP2 CONTACTS NOT SEATING PROPERLY.'.
**19.07.1991** Service defect: 'A - CONTACTOR MISCELLANEOUS - BKP2 CONTACTOR REPLACED.'.
**19.07.1991** Service defect: 'A - NO 16 LINER TO MONITOR, A/C METAL MISSING AROUND'.
**19.07.1991** Service defect: 'A - PORTS.19/7.'.
**30.07.1991** Service defect: 'TS - CONTACTOR WELDED - WELDED CONTACTOR - BKP2 CONTACTOR REPLACED.'.
**02.08.1991** Service defect: 'UN - CONTACTOR INTERLOCKS - NO POWER - WS1-4DC INT/LOCKS CLEANED/UP,TESTED OK IN DEPOT.'.
**13.09.1991** Service defect: 'B - ENGINE WATER LEAK - COLD WATER LEAKS REPAIRED.'.
**13.09.1991** Service defect: 'UN - DYNAMIC BRAKE - DYN/BRAKE INTERLOCKS CHECKED OK,A/C INTERMITTENT CHATTERING.'.
**13.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'A'END PACKAGE RETAINING PIN FALLEN OUT, 1 INTACT,NOT CRACKED,OK FOR TRAFFIC.'.
**13.09.1991** Service defect: 'B - 'A'END PACKAGE TO MONITOR,A/C RETAINING PIN MISSIN'.
**13.09.1991** Service defect: 'B - G.A & B KNUCKLES TO MONITOR,A/C NEARING WEAR LIMIT'.
**13.09.1991** Service defect: 'B - 13/9.'.
**02.10.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - BKP2 CONTACTOR REPLACED. TRIAL RUN O/K.'.
**07.11.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - BKP2 CONTACTOR REPLACED,A/C CONTACTOR U/S,BURNT TIPS.DIODE REPLACED.'.
**09.11.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION CHECKED MANUALLY,OK IN DEPOT.'.

**13.11.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - FIELD SHUNT RESISTORS CHANGED,TRANSITION SET UP & CHECKED OKA/C LOW POWER DUE TO TRANSITION RESISTORS.'.
**22.11.1991** Service defect: 'A - BKP1 & RVR3 CONTACT TIPS TO MONITOR,A/C BURN MARKS'.
**22.11.1991** Service defect: 'A - ON ALL TIPS.22/11.'.
**12.02.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - ALL SIX WICKS 'A'END BOGIE CHANGED.'.
**12.02.1992** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - 'B'END KNUCKLES,COUPLERS,PACKAGE AND YOKE,REPLACED.'.
**12.02.1992** Service defect: 'C - TRACTION MOTOR - THREE TRACTION MOTOR BRUSH HOLDERS REPLACED.T/M NO. UNKNOWN.'.
**12.02.1992** Service defect: 'C - A END COUPLLER TO MONITER A/C INTERNAL CRACKING.'.
**06.05.1992** Service defect: 'UN - ELECTRICAL MISC. MODULES - RVR5 CHANGED A/C CONTACT TIPS NOT MAKING PROPERLY.TESTED OK.'.
**20.05.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - RUF2 CONTACTOR REPLACED,A/C WHEELSLIP.LOCO TESTED FOWARD/ REVERSE OK.'.
**01.07.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - BKP1;RVR3 CONTACT TIPS TO MONITOR A/C BURN MARKS.'.
**01.07.1992** Service defect: 'B - COOLING SYSTEM - COOLANT WATER CHANGED.'.
**01.07.1992** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED A/C NO ADJUSTMENT.'.
**01.07.1992** Service defect: 'B - GENERAL - 'A' END COUPLER CHANGED.A/C INTERNAL CRACKS.'.
**01.07.1992** Service defect: 'B - MAIN GENERATOR BRUSHES - ALL MAIN GEN. BRUSHES CHANGED AND BEDDED IN.'.
**11.07.1992** Service defect: 'UN - CONTACTOR INTERLOCKS - WS INTERLOCKS CLEANED.SF&BF INTERLOCKS CLEANED.-FORIEGN MATTER REMOVED FROM SF INTERLOCKS.LOCO TESTED OK.'.
**28.07.1992** Service defect: 'UN - BATTERY MAINTENANCE - ONE BATTERY CHANGED A/C DEAD CELL.'.
**28.07.1992** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE CHECKED OK IN DEPOT.'.
**28.07.1992** Service defect: 'UN - DYNAMIC BRAKE SETTING - D/BRAKE SET UP COMPLETED.SENT ON TRIAL RUN.'.
**23.09.1992** Service defect: 'A - AIR CONDITIONING - AIR CONDITIONER CLUTCH REPLACED A/C WIRES PULLED.'.
**23.09.1992** Service defect: 'A - BOGIE - THRUST PADS REPLACED ON L1,R1,R3 & R6.'.
**23.09.1992** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - NO'S 1,2,3 & 4 WHEELS ADJUSTED, A/C EXCESSIVE CLEARANCES.'.
**23.09.1992** Service defect: 'A - TRACTION MOTOR SUSPENSION BEARING - BRUSH HOLDERS REPLACED IN NO 5 T/M AND BRUSHES REPLACED.'.
**23.09.1992** Service defect: 'A - NO'S 8 & 16 LINERS TO MONITOR A/C CHROME AROUND'.
**23.09.1992** Service defect: 'A - PORTS STARTING TO COME OFF.23/9.'.
**28.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED. OLD SPEEDO READING - 130171.'.
**03.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED, A/C CRACKED.'.
**13.11.1992** Service defect: 'TS - BOGIE - BOGIE CHANGE COMPLETED.'.
**27.11.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - LOCO INSPECTED, T/M'S & CABLES ALL CHECKED OK, A/C GR'S.'.
**12.01.1993** Service defect: 'B - DYNAMIC BRAKE - BC WIRE REPLACED ON D/BRAKE RHEOSTAT.'.
**12.01.1993** Service defect: 'B - GENERAL - NO 16.POWER ASSEMBLY CHANGED. ENGINE AIR INTAKE FILTERS CHANGED.'.
**10.03.1993** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - TRANSITION TEST USING TRANSITION GEN & CHECKED ALL ASSOCIATED WIRING, CHECKED OUT OK.'.
**23.03.1993** Service defect: 'F - BOGIE MAINTENANCE - WICKS - R3 & R5 WICKS REPLACED, A/C DIRTY.'.
**23.03.1993** Service defect: 'F - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**23.03.1993** Service defect: 'F - ENGINE - GOVERNOR TO ENGINE BLOCK MOUNTING BOLT REPLACED, A/C MISSING& LEAKING OIL. TESTED OK.'.
**12.04.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SENT TO ONE SPOT,A/C FLATS ON NO 3.'.
**06.05.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - ALL BRUSHES REPLACED IN NO 2 T/M, A/C SHORT & CAUSING GR'S.'.
**11.06.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - PIECE OF PLASTIC REMOVED FROM PTR,A/C WAS HOLDING A NORMALLYOPEN CONTACT CLOSED.'.
**11.06.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**11.06.1993** Service defect: 'C - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPLACED,SPEEDO OPERATION OK.'.
**11.06.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - NO 1 T/MOTOR BOTTOM BRUSH HOLDER REPLACED,A/C HAMMER LOOSE.'.
**11.06.1993** Service defect: 'C - LOAD REG OIL SUPPLY PIPE LEAKING,TO MONITOR.11/6.'.
**19.07.1993** Service defect: 'UN - GENERAL - WINDOW WINDER MECHANISM OBS/SIDE,REPAIRED.'.
**19.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE REPAIRED.'.
**18.08.1993** Service defect: 'UN - DYNAMIC BRAKE - DYN. BRAKE REG. CHECKED OK. BWR SET OK. BR STICKING IN HAS BEEN REPLACED.'.
**02.09.1993** Service defect: 'A - BOGIE - 'B'END CARRIER PLATE BOLTS CHANGED. 'B'END COUPLER THROAT PLATE BOLTS TIGHTENED.'.
**02.09.1993** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L1,L3,R3 & R6 WICKS CHANGED.'.
**02.09.1993** Service defect: 'A - ELECTRICAL MISC. TRANSITION - FS1 & FS2 PICKING UP TOGETHER. CR40 REPLACED, A/C SHORT CIRCUIT. TRANSITION TEST (STATIC OK).'.
**02.09.1993** Service defect: 'A - GENERAL - TOILET REPLACED.'.
**02.09.1993** Service defect: 'A - MAIN GENERATOR - GEN BRUSHED OUT.'.
**02.09.1993** Service defect: 'A - MECHANICAL EQUIPMENT

COUPLER - ‘A‘END COUPLER CHANGED, A/C HEAD WARPED.’.

**02.09.1993** Service defect: ‘A - MECHANICAL MAINTENANCE - AIR BRAKE - ‘B‘END CONTROL PIPE HOSE CHANGED, ‘A‘END HOSES REPOSITIONED.BARREL UNION ON BRAKE PIPE ‘A‘END TIGHTENED.’.

**02.09.1993** Service defect: ‘A - TRACTION MOTOR - NO 5 T/MOTOR BLOWER DUCT REPAIRED.’.

**02.09.1993** Service defect: ‘A - TRACTION MOTOR BRUSHES - 3 O’CLOCK BRUSH HOLDER ON NO 1 T/MOTOR REPLACED.’.

**16.09.1993** Service defect: ‘UN - MAIN GENERATOR BRUSHES - MAIN GENERATOR BRUSHES REPLACED.’.

**07.10.1993** Service defect: ‘TS - DYNAMIC BRAKE - DYNAMIC BRAKE TESTED OK.’.

**07.10.1993** Service defect: ‘TS - TRACTION MOTOR - NO.2 T/M CHANGED A/C EARTH ON INTERPOLE. DIRECTION TESTED OK.’.

**01.11.1993** Service defect: ‘UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - NO DYN/BRAKE - ONE D/BRAKE GRID (D/SIDE MIDDLE) FOUND MELTEDD/B GRID REPLACED. D/B FAN CHECKED OK. LOCO TESTED IN YARD’.

**13.11.1993** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - FLAT BATTERIES - JUMP STARTED.’.

**15.11.1993** Service defect: ‘UN - BATTERY MAINTENANCE - BATTERY REPLACED, A/C BROKEN TERMINAL. ALL BATTERIES TOPPED UP AND CHECKED OK.’.

**09.12.1993** Service defect: ‘B - LUBRICATING SYSTEM - OIL COOLER REPLACEMENT COMPLETED.’.

**09.12.1993** Service defect: ‘B - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR REPAIRS COMPLETED, COMP FILTER COVER REPLACED’.

**29.12.1993** Service defect: ‘UN - DYNAMIC BRAKE - DYNAMIC BRAKE OPERATION CHECKED OKAY IN DEPOT.’.

**29.12.1993** Service defect: ‘UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BATTERY CHARGING AMMETER REPAIRED.’.

**29.12.1993** Service defect: ‘UN - ELECTRICAL MAINTENANCE -WIRING - WIRE REPLACED ON FSR 1,TRANSITION TESTED OKAY.’.

**29.12.1993** Service defect: ‘UN - VIGILANCE - VIGILANCE PENALTY VALVE CHANGED ,RETIMED AND TESTED OKAY.’.

**18.01.1994** Service defect: ‘UN - BATTERY MAINTENANCE - 2 BATTERIES CHANGED.’.

**18.01.1994** Service defect: ‘UN - OVERHEATING - HOT ENGINES TO CHECK. H/E THERMOSTAT CHECKED OK. RADIATORSCHECKED OK.’.

**18.01.1994** Service defect: ‘UN - RADIATOR/PRESSURISING FAN - RADIATOR FANS CHECKED OK.’.

**25.01.1994** Service defect: ‘TS - COOLING SYSTEM OVERHEATING - HOT ENGINE ALARM CHECKED AND TESTED OK.’.

**25.01.1994** Service defect: ‘TS - DYNAMIC BRAKE - DYNAMIC BRAKE LUGS REPLACED. 2OFF, A/C HOT..’.

**25.01.1994** Service defect: ‘TS - GENERAL SHUTDOWN - LOCO SHUTTING DOWN, A/C LOW OIL. OIL FILTERS CHANGED AND LOCO CHECKED OK.’.

**25.01.1994** Service defect: ‘TS - MAIN GENERATOR - MIAN GENERATOR CLEANED UP, A/C FLASH-OVERS.’.

**25.01.1994** Service defect: ‘TS - DYNAMIC CUT OUT,A/C ONLY WORKS INTERMITTENTLY. TO’.

**25.01.1994** Service defect: ‘TS - WORK ROAD RAILER ONLY.25/1/94.’.

**31.01.1994** Service defect: ‘UN - DYNAMIC BRAKE - DYN/BRAKE INTERMITTENT FAULT - L.R.P REPLACED (LOAD REGULATAR REPOSITIONED). DYN/BRAKE OPERATION CHECKED OK.’.

**31.01.1994** Service defect: ‘UN - L1 SLACK ADJUSTER SEIZED.31/1.’.

**17.03.1994** Service defect: ‘UN - DYNAMIC BRAKE IS EITHER FULL ON OR OFF, UNABLE TO’.

**17.03.1994** Service defect: ‘UN - INCRAESE OR DECREASE SLOWLY.16/3/94.’.

**06.10.1994** Service defect: ‘F - ELECTRICAL MISCELLANEOUS - CONTACTORS,FANS,BLOWERS,AUX AND MAIN GENERATOR OVERHAULED, CAB CONTROLLER MODIFIED AS PER V/LINE MODIFICATIONS LISTING’.

**06.10.1994** Service defect: ‘F - ENGINE - OVERHAULED ENGINE,RADIATORS,COMPRESSOR INSTALLED,AIR INLET’.

**06.10.1994** Service defect: ‘F - GENERAL - CAB REFURBISHED TO NATIONAL STANDARD - PAINTWORK,NOISE LEVELAND GENERAL EQUIPMENT;NEW MARKER LIGHTS AND 74V HEADLIGHTS.’.

### GM 46

Details: locomotive ‘GM 46 E’ in AN ‘Mainland Division’.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $249870
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 21.06.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 19.03.1997 | | |
| Last Lift: | 09.09.1987 | | |
| SW Service Mileage: | 1 KM | SW Service Date: | 13.06.1995 |
| A Service Mileage: | 251635 KM | A Service Date: | 19.03.1997 |
| B Service Mileage: | 213791 KM | B Service Date: | 09.11.1996 |
| C Service Mileage: | 137274 KM | C Service Date: | 23.04.1996 |
| D Service Mileage: | 753944 KM | D Service Date: | 29.05.1991 |
| E Service Mileage: | 505081 KM | A Service Date: | 14.03.1990 |
| F Service Mileage: | 801986 KM | A Service Date: | 09.09.1987 |
| WT Service Mileage: | 915146 KM | WT Service Date: | 05.06.1992 |
| US Service Mileage: | 166587 KM | A Service Date: | 06.07.1996 |

**17.12.1986** Alteration complete ‘APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)’.

**07.07.1989** Service defect: ‘WT - SENT TO MILE END FOR BRAKE ADJUSTMENT’.

**19.07.1989** Service defect: 'UN - BOGIE - CRATER LEAK - NO.2 G/CASE CAP REPLACED.'.
**19.07.1989** Service defect: 'UN - BOGIE - EXCESS TRAVEL - THIN BLOCKS REPLACED & BRAKES ADJUSTED UP. - (TAKEN UP/HOLE) LOCO PROFILED 7/7/89.'.
**19.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SPLIT HOSE - MAIN/RES.HOSE REPLACED.'.
**19.07.1989** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP OPERATION - PIN STRAIGHTENED D/SIDE FRONT RECEPT. * LOCO COUPLED TO AL21 & HAVING CONTINUOUS WHEEL/SLIP*'.
**25.09.1989** Service defect: 'A - PROFILE BEFORE NEXT SERVICE.(SHARP FLANGE R.3 (8))'.
**25.09.1989** Service defect: 'A - (25/9)'.
**31.10.1989** Service defect: 'UN - RADIATOR/PRESSURISING FAN - D/S REAR RADIATOR FAN REPLACED A/C ORIGINAL OPEN CIRCUIT.'.
**08.11.1989** Service defect: 'B - ENGINE - ENG/BLOWER NOISY - R/H BLOWER REPLACED.(SERIAL NO.62L36) - BEARING & THRUST WASHER REPLACED.'.
**08.11.1989** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK - MARMON RUBBERS CHANGED ON WATER TANK PIPES. - L/HAND WATER PUMP REPLACED.(TELL/TALE LEAK)'.
**27.11.1989** Service defect: 'TS - OVERHEATING - HOT ENGINE REPORTS - D/SIDE REAR FAN OPERATION REVERSED. (FAN IN REVERSE) - (NO.3 FAN OPERATION)'.
**27.11.1989** Service defect: 'TS - OVERHEATING - NO4 THERMOSTAT RESET TO CORRECT SETTING A/C ORIGINAL SETTINGTOO HIGH. NO2 FAN CONTACTOR CLEANED A/C DIRTY.'.
**19.12.1989** Service defect: 'WT - SENT TO MILE END FOR BRAKE ADJUSTMENT.'.
**07.01.1990** Service defect: 'TS - RADIATOR/PRESSURISING FAN - FAN FAILURE - D/SIDE REAR RADIATOR FAN REPLACED.(SEIZED)'.
**10.01.1990** Service defect: 'SW - COOLING SYSTEM RADIATOR - RADIATOR LEAK - D/SIDE NO.4&5 RADIATORS REPLACED.'.
**10.01.1990** Service defect: 'SW - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.
**06.02.1990** Service defect: 'B - ELECT - RECEPTACLES/INTER CAR COUPLINGS - TRAIN/LINE FAULT -'.
**06.03.1990** Service defect: 'UN - BOGIE - 2 BRAKE SPREADER BARS REPLACED.'.
**14.03.1990** Service defect: 'E - BOGIE - SIDE/SLAP REPORTED - ALL RESILIANT RUBBERS REPLACED.'.
**25.03.1990** Service defect: 'UN - BOGIE - BROKEN BRAKE GEAR - L.3 BRAKE/STRAPS REPLACED. - SLACK/ADJUSTER REPLACED.(BROKEN)'.
**30.04.1990** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES - TOPPED UP & ONE TO CHANGE A/C DEAD CELL.'.
**30.04.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - NO.5 T/MOTOR CLEANED/UP & COVER REPLACED - (BALLAST DAMAGE A/C COVER MISSING)'.
**04.05.1990** Service defect: 'TS - BATTERY MAINTENANCE - DEAD CELL - 1 NO.STARTING BATTERY INSTALLED.(DL TYPE)'.
**04.05.1990** Service defect: 'TS - BOGIE - - SLACK/ADJ. & SAND/PIPE REPLACED.(L.3)'.
**04.05.1990** Service defect: 'TS - BOGIE - BRAKE GEAR BROKEN - INNER/OUTER BRAKE STRAPS REPLACED.(L.3) - INNER BRAKE STRAP REPLACED.(R.3)'.
**09.05.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - 4 NO.SHOCK/ABSORBERS REPLACED.(BROKEN EYES) - SHOCK/ABSORBERS REPLACED ON 'B'BOGIE.'.
**11.05.1990** Service defect: 'UN - BOGIE - NUMBER 4 AXLE BRAKE SPREADER REPAIRED'.
**18.05.1990** Service defect: 'TS - BOGIE - BROKEN STRAPS - R.3 & L.6 BRAKE STRAPS REPLACED.'.
**18.05.1990** Service defect: 'TS - ELECTRICAL MISC. GROUND RELAY - G/RELAYS - NO.6 T/MOTOR REPLACED.'.
**23.05.1990** Service defect: 'UN - BOGIE - BRAKE STRAPS - R.1 & L.3 BRAKE STRAPS REPLACED.'.
**24.05.1990** Service defect: 'B - BOGIE - BRAKE HANGER MODIFICATION - COMPLETED. BRAKE STRAP BROKEN - R.3 OUTER BRAKE STRAP REPLACED.'.
**24.05.1990** Service defect: 'B - TO BE PROFILED A/C L.1&L.3 FLANGES SHARP. (24/5)'.
**31.05.1990** Service defect: 'UN - ROUGH RIDING - WHEEL PROFILE REQUIRED A/C SUSPECTD'.
**31.05.1990** Service defect: 'UN - OUT OF ROUND (31/5).'.
**07.06.1990** Service defect: 'UN - DYNAMIC BRAKE - MODIFICATION - DYNAMIC MOD.COMPLETED.'.
**07.06.1990** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - OIL/COOLER - CHANGED/OUT.'.
**09.06.1990** Service defect: 'UN - WHEELSLIP - WHEEL/SLIP OPERATION - 2 NO.CABLES ON NO.5 T/MOTOR REPAIRED. - (CABLES RUBBED THRU.)'.
**15.06.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED A/EX WTM.'.
**24.06.1990** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW - D/SIDE WINDOW REGULATOR REPAIRED.'.
**08.07.1990** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE - DBR AND BWR SET UP. DBR ADJUSTED A/C SET TOO HIGH.'.
**22.08.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - UNABLE TO PROFILE - WHEELS TO RUN/OUT.'.
**24.09.1990** Service defect: 'UN - BOGIE - L3 SPREADER BAR REPLACED.'.
**27.09.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - L.4 INNER BRAKE STRAP REPLACED. SEIZED ADJUSTER - L.2 SLACK/ADJUSTER REPLACED.'.
**30.09.1990** Service defect: 'UN - BOGIE - BROKEN STRAPS - D/SIDE NO.3 & O/SIDE NO.4 BRK/STRAPS REPL'D.'.
**02.10.1990** Service defect: 'A - WHEELS TO MONITOR A/C THIN & FLANGE WEAR. (2/10)'.
**02.10.1990** Service defect: 'A - * TO MONITOR WEEKLY *'.
**03.12.1990** Service defect: 'UN - AIR/COND BELTS TO FIT A/C ALIGNMENT OUT. (3/12)'.
**06.12.1990** Service defect: 'SW - AIR CONDITIONING - ALIGNMENT - AIR/COND COMPRESSOR RE-ALIGNED & BELTS FITTED.'.
**10.12.1990** Service defect: 'UN - RADIO REPAIR - RADIO FAULT -'.
**04.02.1991** Service defect: 'UN - OTHER BODY REPAIRS - CAB REPAIRS - COMPLETED.'.
**02.04.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DRAGGING BRAKES REPAIRED,DISTRIBUTING VALVE REPLACED,WHEELS

CHECKED OK.'.
**15.05.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER FAULT -'.
**27.05.1991** Service defect: 'TS - BOGIE - SCREWED JOURNAL - NO.6 WHEEL REPLACED.(OOLDEA) (TRN.NO.6PA6) - (WAITING ON WHEEL SET)'.
**27.05.1991** Service defect: 'TS - WAITING ON WHEEL SET A/C JOURNAL SCREWED OFF.(27/5'.
**04.06.1991** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - SCREWED JOURNAL - NO.6 WHEEL & T/MOTOR REPLACED. AXLE/END U/S - NO.3 WHEEL/SET REPLACED.'.
**11.06.1991** Service defect: 'UN - ENGINE - OIL LEAK - MARMON RUBBER ON OIL LINE TO OIL/COOLER REPLACED.'.
**02.07.1991** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYN/BRAKE GRID REPAIRED,A/C BURNT CONNECTION.CABLE RELUGGED A/C BLOWN.LOCO MEGGERED 300K.'.
**02.07.1991** Service defect: 'UN - TRACTION MOTOR - NO 4 T/MOTOR CLEANED,A/C VERY OILY.'.
**15.08.1991** Service defect: 'A - EXHAUST - EXHAUST BOLTS TORQUED, A/C LOOSE.'.
**15.08.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE CHANGED, A/C NO AUTO BRAKE APPLICATION.'.
**26.09.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - ALL T/M'S CHECKED OK IN DEPOT,A/C GR'S.MAIN GENERATOR CHECKED OK IN DEPOT,A/C GR'S.'.
**07.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - NO DRIVE - SPEEDO DRIVE REPLACED & END OF CABLE REPLACED.'.
**10.10.1991** Service defect: 'B - COOLING SYSTEM RADIATOR - RADIATOR BAFFLE PLATES REFITTED.'.
**10.10.1991** Service defect: 'B - EXHAUST - EXHAUST STACK RETIGHTENED.'.
**01.11.1991** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - JUMPER RECEPTACLE COVER REWELDED.'.
**11.12.1991** Service defect: 'A - ELECTRICAL MAINTENANCE -WIRING - NEGATIVE WIRE ON RUR5 REPLACED,A/C O/C (NO REVERSE DIRECTION'.
**11.12.1991** Service defect: 'A - ELECTRICAL MISC. AC/DC RELAYS - NVR RELAY REPLACED,A/C LOOSE COIL CONNECTION.'.
**11.12.1991** Service defect: 'A - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRES NA146 FROM P14 TO BKB4 REPLACED A/C OPEN CIRCUIT (BURNT BY CONTACT WITH BR25X3).WIRE BR25X3 FROM BKB3 TO RVF14'.
**16.12.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAULT - GRIDS CHECKED & MEGGERED OK.'.
**16.12.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - T/MOTORS CHECKED MEGGERED OK. (TAKEN OFF 5SP2) - H.T.MEGGERED 4 MEG.'.
**06.03.1992** Service defect: 'C - AIR CONDITIONING - AIR CONDITIONING MODS. COMPLEATED OK.'.
**06.03.1992** Service defect: 'C - BOGIE - BOGIE HOSE ON REAR BOGIE REPLACED OK.'.
**15.04.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - TO W.T.M. A/C BAD FLATS ON REAR BOGIE.'.
**27.05.1992** Service defect: 'UN - COOLING SYSTEM - WATER SIGHT GLASS COCK REPAIRED.'.
**27.05.1992** Service defect: 'UN - GENERAL - D/SIDE WINDOW REPAIRED.'.
**02.06.1992** Service defect: 'A - MAIN GENERATOR BRUSHES - 12 BRUSHES REPLACED IN GENERATOR.'.
**02.06.1992** Service defect: 'A - SLIPRINGS TO MONITOR,A/C WEAR.2/6.'.
**10.07.1992** Service defect: 'TS - MAIN GENERATOR - SLIP RINGS REPLACED.LOCO TESTED OK.'.
**12.08.1992** Service defect: 'UN - BOGIE - NO.6 GEARCASE TIGHTENED AND SEAL CHECKED OK.'.
**20.08.1992** Service defect: 'TS - NO FAULT FOUND - LOCO CHECKED OK IN DEPOT. NO WHEEL SLIP FOUND.'.
**28.08.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L3, R3, R5, WICKS REPLACED.'.
**28.08.1992** Service defect: 'B - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT REPAIRED. WIRE ON FS FOUND IN WRONG AREA.'.
**28.08.1992** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED A/C U/S.'.
**28.08.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NO3 & NO9 HEADS CHANGED A/C EXCESSIVE TOP RING CLEARANCE.'.
**28.08.1992** Service defect: 'B - ENGINE PISTON - NO.3 & NO.9 PISTONS CHANGED A/C EXCESSIVE TOP RING CLEARANCE'.
**28.08.1992** Service defect: 'B - TRACTION MOTOR - NO.6 T/M INSIDE CABLES TIGHTENED A/C FOUND LOOSE.'.
**09.09.1992** Service defect: 'TS - MECHANICAL EQUIPMENT BRAKE VALVE - 70LB FEED VALVE CHANGED. SAFETY VALVE ON COMPRESSOR ADJUSTED.'.
**09.09.1992** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRAIN CHECKED AND FOUND NOT TO BE LEAKING. COMP. OIL LEVEL OK.'.
**09.09.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - HANDLE ON TRAIN PIPE COCK 'A' END REPAIRED.'.
**20.11.1992** Service defect: 'A - AIR CONDITIONING - AIR COND COMPRESSOR BELTS CHANGED.'.
**20.11.1992** Service defect: 'A - ENGINE CYLINDER HEADS - NO 12 CYL/HEAD CHANGED.'.
**11.12.1992** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 8 CYLINDER HEAD REPLACED.'.
**11.12.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO 8 INJECTOR REPLACED,A/C OLD ONE U/S. LOCO STARTED UP & CHECKED OK.'.
**16.12.1992** Service defect: 'UN - BOGIE - 9 SETS OF LATERAL SHOCK ABSORBER RUBBERS REPLACED. UPRIGHT SHOCKERS CHECKED OK. L5 AXLE BOX WEAR PLATE REWELDED. L4'.
**16.12.1992** Service defect: 'UN - BOTH CENTRE CASTING PLATES LOOSE.16/12.'.
**05.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE REPLACED.'.
**05.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 70LB FEED VALVE REPLACED (FROM 500),A/C NIL STOCK. M/R 'A' END BRACKET REWELDED.'.
**23.02.1993** Service defect: 'UN - BOGIE - LOCO SENT TO QUICK FIX FOR CRATER LEVEL & WICK LEVEL CHECK. ONLY OKAY FOR ONE MORE TRIP.'.
**23.02.1993** Service defect: 'UN - SIDE SLAP TO

INVESTIGATE,NO 1 PINION GEARS NOISY'.
**23.02.1993** Service defect: 'UN - TO BE CHANGED OUT.'.
**23.03.1993** Service defect: 'UN - AIR CONDITIONING - AIR COND CLUTCH REPLACED.'.
**23.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - 'A' PILOT REPAIRED.'.
**25.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE & YOKE REPLACED. 'A'END COUPLER REPLACED.'.
**20.04.1993** Service defect: 'UN - BOGIE - LATERAL CLEARANCES CHECKED AND SET WITHIN SPECIFICATIONS'.
**20.04.1993** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - DRIVERS SIDE VERTICAL BOLSTER SHOCK ABSORBER RUBBERS CHANGEDA/C SIDE SLAP'.
**20.04.1993** Service defect: 'UN - 'B' COUPLER CRACKED TO BE CHANGED WHEN AVAILABLE'.
**23.04.1993** Service defect: 'A - BOGIE - ALL CRATER LEVELS LOW-TOOPED UP'.
**23.04.1993** Service defect: 'A - COOLING SYSTEM RADIATOR - RADIATOR BAFFLE PLATE REPLACED'.
**23.04.1993** Service defect: 'A - LUBRICATING SYSTEM - MARMON COUPLING RUBBERS REPLACED A/C LEAKING 4.5 INCH'.
**23.04.1993** Service defect: 'A - VALVE BRIDGE/LASH ADJUSTER - NOS 1 @ 5 VALVE BRIDGES REPLACED'.
**23.04.1993** Service defect: 'A - 'B' COUPLER TO BE REPLACED A/C TWO INCH CRACK,'.
**23.04.1993** Service defect: 'A - BATTERIES TO MONITOR.'.
**01.06.1993** Service defect: 'UN - BATTERY MAINTENANCE - COMPLETE BATTERY CHANGE COMPLETED.'.
**22.07.1993** Service defect: 'B - AUXILLARY MACHINES - ALL BRUSHES REPLACED IN AUX GENERATOR.'.
**22.07.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - FSR2 CHATTERING IN & OUT - AUX CONTACT BENT TO NORMAL POSITION & CHECKED OK.'.
**22.07.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - SPEEDO REPLACED.'.
**22.07.1993** Service defect: 'B - FUEL SYSTEM - OBS SIDE FUEL SIGHT GLASS CLEANED.'.
**22.07.1993** Service defect: 'B - MAIN GENERATOR BRUSHES - 19 BRUSHES REPLACED IN MAIN GENERATOR.'.
**22.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'B'END PACKAGE WEAR PLATE TIGHTENED.'.
**22.07.1993** Service defect: 'B - OIL FILTERS - SLEEVE REPAIRED ON MICHIANA FILTER HOUSING.'.
**27.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLER REPLACED.'.
**27.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW SEALS LUBED TO HELP OPERATION. DOOR SEAL SECTION REPLACED. DOOR LATCH SECTION TIGHTENED.'.
**15.10.1993** Service defect: 'A - BOGIE - NO 4 RESILIENT RUBBERS REPLACED, A/C U/S. LATERALS CHECKED OK.'.
**15.10.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - S23 & BK POWER CONTACTOR TIPS CHANGED, A/C WORN.'.
**15.10.1993** Service defect: 'A - ELECTRICAL MISCELLANEOUS - FUEL PUMP BRUSHES CHANGED, A/C SHORT.'.
**15.10.1993** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - L1 & L4 SAND HOSE REPLACED.'.
**15.10.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - ALL BRUSHES CHANGED IN T/MOTORS. NO 6 T/M COMM CLEANED UP, A/C TOP BRUSH HOLDER MELTED. BRUSH HOLDER ALSO CHANGED.'.
**23.10.1993** Service defect: 'UN - NO FAULT FOUND - GROUND RELAYS REPORTED-MEGGERED LOCO (2MEG) TRACTION MOTORS CHECKED OK.NO FAULTS FOUND.'.
**31.10.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDO CHART HAD RUN OUT - CHART REPLACED,CHECKED OK.'.
**02.12.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATORS CHECKED OK.'.
**02.12.1993** Service defect: 'UN - ENGINE - HOT ENGINE BOOKED - INSPECTED OK.'.
**02.12.1993** Service defect: 'UN - LUBRICATING SYSTEM - MICHIANA FILTERS CHANGED.'.
**02.12.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - FANS CHECKED OK.'.
**09.12.1993** Service defect: 'UN - TRACTION MOTOR BRUSHES - NO 3 T/MOTOR HAS SEVERE FLATS. ALL BRUSHES CHANGED, A/C CHIPPED AND BROKEN PIGTAILS HANGING OUT. ALL OTHER T/M'S OK.'.
**31.12.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - P14, P36, P25 COTACT TIPS DRESSED. TO BE REPLACED A/C WORN.'.
**31.12.1993** Service defect: 'C - ELECT. MISC. - GAUGES & INSTRUMENTS - BATTERY CHARGING AMMETER CHANGED A.C U/S.'.
**31.12.1993** Service defect: 'C - P14, P36, P25 CONTACT TIPS TO REPLACE ASAP. NIL'.
**31.12.1993** Service defect: 'C - STOCK MPC.31/12/93.'.
**25.01.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SAFETY VALVE CHANGED, A/C BLOWING OFF. SAFETY VALVE EX CK3, A/C NIL STOCK.'.
**11.02.1994** Service defect: 'UN - - A.C. COMPRESSOR BELTS REPLACED'.
**11.02.1994** Service defect: 'UN - GENERAL - BRAKE BLOCKS ADJUSTED,REPLACED'.
**15.02.1994** Service defect: 'UN - AIR CONDITIONING - AIR COND. BELTS REPLACED.'.
**15.02.1994** Service defect: 'UN - BOGIE - OBS/SIDE 'A'END SHOCKER RUBBERS REPLACED.'.
**15.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR GOVERNOR ADJUSTED.'.
**01.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPLACED EX GM 40, A/C U/S.'.
**07.03.1994** Service defect: 'TS - TRACTION MOTOR BRUSHES - REPLACED ALL BRUSHES IN NO 3 T/MOTOR, A/C PULLED, BURNT PIG TAILS CAUSING GR'S.'.
**10.03.1994** Service defect: 'TS - CONTACTOR MISCELLANEOUS - P14 REPLACED, A/C MAIN CONTACTS EARTHING TO CHASSIS OF CONTACTOR VIA ARCING CABLE. P=3MOHMS @ 1000.'.
**16.03.1994** Service defect: 'A - BOGIE - LOCO REPORTED AS HAVING SIDE SLAP AND SUSPENSION BOTTOMING OUT. SHOCKERS CHECKED OK. LATERALS CHECKED OK.'.
**16.03.1994** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L2 AND L4 WICKS CHANGED. L1, L2 AND L4

WICK OIL CHANGED. R3 WICK OIL CHANGED.'.

**16.03.1994** Service defect: 'A - CONTACTOR MISCELLANEOUS - P14 CONTACTOR CHANGED. P36 AND P25 CONTACTOR CHECKED OK.'.

**16.03.1994** Service defect: 'A - GENERAL - FUEL TANK BOLTS TIGHTENED, A/C LOOSE.'.

**16.03.1994** Service defect: 'A - 'B'END COUPLER HAS 2 INCH CRACK.16/3/94.'.

**18.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - THROTTLE LIGHT REPLACED. VIG. LIGHT REPLACED.'.

**18.03.1994** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW WINDING MECHANISM REPAIRED, DRIVERS SIDE.'.

**27.05.1994** Service defect: 'TS - COOLING SYSTEM - ENGINE WATER ADDED.'.

**27.05.1994** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - EARTH ON CONTROL REPAIRED - REPLACED MARKER LIGHT AND SWITCH 'B'END.'.

**27.05.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SLIP RING BRUSH HOLDERS INSTALLED AND REWIRED.'.

**27.05.1994** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR INSTALLED, ALIGNED AND FILLED WITH OIL.'.

**27.05.1994** Service defect: 'TS - 1 FAN CONTACTOR REQ'D, A/C MISSING.27/5.'.

**24.06.1994** Service defect: 'B - BOGIE - L5 WEAR PAD WELDED UP.'.

**24.06.1994** Service defect: 'B - BOGIE MAINTENANCE - WICKS - L2 AND R5 WICKS AND OIL REPLACED, A/C DIRTY.'.

**24.06.1994** Service defect: 'B - ENGINE AIR FILTERS - BLOWER INLET FILTERS CHANGED.'.

**24.06.1994** Service defect: 'B - MAIN GENERATOR - 9 M/GEN BRUSHES + 1 BRUSH SPRING CHANGED, A/C BROKEN. 1 AUX GEN BRUSH CHANGED, A/C SHORT.'.

**24.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - HEAD ON COMPRESSOR CHANGED, A/C INTERCOOLER SAFETY VALVE BLOWING OFF.'.

### GM 47

Details: locomotive 'GM 47 N' in AN 'Mainland Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 17.9m
**Tare Weight:** 116tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Original Cost:** $249870
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NS 4
**Date Built:** 27.12.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1450kw
**BSG Code:** LSAG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Last Lift: | 05.04.1993 | | |
| SW Service Mileage: | 613435 KM | SW Service Date: | 10.10.1996 |
| A Service Mileage: | 605869 KM | A Service Date: | 04.02.1997 |
| B Service Mileage: | 579109 KM | B Service Date: | 07.09.1996 |
| C Service Mileage: | 484480 KM | C Service Date: | 02.02.1996 |
| D Service Mileage: | 309379 KM | D Service Date: | 09.02.1995 |
| E Service Mileage: | 0 KM | A Service Date: | 18.04.1991 |
| F Service Mileage: | 1708672 KM | A Service Date: | 05.04.1993 |
| WT Service Mileage: | 1286418 KM | WT Service Date: | 16.05.1990 |
| US Service Mileage: | 612522 KM | A Service Date: | 10.04.1997 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**27.07.1989** Service defect: 'A - BOGIE - NO.2 SUPPORT COLLAPSED - 'A'BOGIE EX.GM37 INSTALLED.(GM212) FOUND ON SERVICE.'.

**27.07.1989** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - * BOGIE CHANGED ALSO A/C WHEELS NEAR CONDEMNING LIMIT * * BOGIE COVERED 707,093 KMS.SINCE BEING INSTALLED 11/12/85 *'.

**30.07.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - G/RELAY OPERATION - MOISTURE DRIED OUT. MEGGERED .9 M/OHMNS.'.

**30.07.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - NO CHARGE RATE - VOLTAGE REGULATOR REPLACED.'.

**22.08.1989** Service defect: 'UN - DYNAMIC BRAKE - DYN BRAKE FAN CHECKED & RUN OK. DBR & BWR SETUPS CHECKED OK REPLACED GRID A/C OPEN CIRCUIT ON FAN GRID.'.

**29.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT DRAW GEAR CHANGED A/C DRAUGHT BOX EXPLODED.'.

**13.09.1989** Service defect: 'SW - BOGIE - PIN MISSING - L.3 BRK/PIN REPLACED.'.

**13.09.1989** Service defect: 'SW - ELECTRICAL MISC. TRANSITION - TRANSITION FAULT - RETAINING BAR REPLACED,TRANSITION TEST OK'.

**13.09.1989** Service defect: 'SW - ENGINE - LOAD/TEST - ENG.REVS SET TO 900RPM. O/SPEED SET TO 950RPM. - HORSE/POWER RATING OF 1835 RECORDED.'.

**21.09.1989** Service defect: 'SW - BOGIE - NEW TEST RUBBERS - FULL SET OF TEST RESILIANTS INSTALLED.'.

**21.09.1989** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - WHEEL CONDITION - O/HAULED BOGIES INSTALLED.'A'BOGIE GM330. 'B'BOGIE GM349.'.

**21.09.1989** Service defect: 'SW - ENGINE GOVERNOR - GOVERNOR - REPLACED A/C HIGH ENGINE SPEED TESTS. - REPLACEMENT GOVN.NO.672460.'.

**11.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - RACHET REPAIRED ON HAND BRAKE .'.

**28.12.1989** Service defect: 'UN - BOGIE - SIDE SLAP - LATERAL SHOCK ABSORBER RUBBERS REPLACED.'.

**05.01.1990** Service defect: 'TS - SENT BACK TO PT/AUG A/C BRAKES CUT OUT A/CDRAGGING'.

**06.01.1990** Service defect: 'SW - BOGIE - WORN BLOCKS - ALL BRAKE/BLOCKS REPLACED.(WORN & DISCOLOURED)BURNT SHOES - BRAKE SHOES CLEANED/UP.(DRAGGING BRAKES)'.

**06.01.1990** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE TEST -'.

**09.01.1990** Service defect: 'UN - BOGIE - SUPPORT BEARING CAP - BOLTS REPLACED & WIRED. - WICK CHECKED

OK.'.

**16.01.1990** Service defect: 'UN - BOGIE - - NO.1 G/CASE SUPPORT ARM RE-WELDED. - NO.3 G/CASE CAP REPLACED.(MISSING)'.

**16.01.1990** Service defect: 'UN - BOGIE - ROUGH RIDING - R.4 STABILISER REPLACED.(EYE BROKEN) - L.1&R.6 PEDESTAL LINER BOLTS REPLACED.'.

**31.01.1990** Service defect: 'UN - NO FAULT FOUND - SUSPECT VALVE FAULT - SAFETY VALVE OPERATION CHECKED OK.'.

**06.02.1990** Service defect: 'UN - RADIO REPAIR - MODIFICATION - UHF RADIO MODIFICATION COMPLETED.'.

**08.02.1990** Service defect: 'UN - WHEELS TO BE SKIMMED A/C ROUGH/RIDING. (8/2)'.

**28.03.1990** Service defect: 'B - RADIO REPAIR - RADIO INSTALLATION - NOT COMPLETED.(O/SIDE HAND/PIECE U/S)'.

**28.03.1990** Service defect: 'UN - OTHER BODY REPAIRS - MODIFICATION - CAB MODIFICATION COMPLETED.'.

**08.05.1990** Service defect: 'A - BOGIE - SHOCK/ADSORBER - L.2 CHANGED A/C BROKEN EYE. - R.3&4 TIGHTENED.'.

**08.05.1990** Service defect: 'A - CONTACTOR MISCELLANEOUS - FS1 CONTACTOR - BAR REPLACED.'.

**26.06.1990** Service defect: 'C - BOGIE - CRACKED BRAKE STRAP - R.3 OUTER STRAP REPLACED.'.

**26.06.1990** Service defect: 'C - ELECT - RECEPTACLES/INTER CAR COUPLINGS - BROKEN LUG - O/SIDE FRONT RECEPTICLE REPAIRED.'.

**28.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED.'.

**20.07.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - NEW SET OF RESILIANT RUBBERS INSTALLED. - 3 NO.THRUST BLOCKS REPLACED.(L.1&2 + R.3)'.

**31.07.1990** Service defect: 'UN - BOGIE - ROUGH/RIDING - INSPECTION COMPLETED.'.

**08.08.1990** Service defect: 'UN - BOGIE - BROKEN STRAP - INNER BRAKE STRAP REPLACED.(O/SIDE NO.1)'.

**08.08.1990** Service defect: 'UN - SHUNTER USE ONLY A/C BOGIE CONDITION,ROUGH/RIDING.'.

**08.08.1990** Service defect: 'UN - (8/8)'.

**17.08.1990** Service defect: 'SW - BOGIE - - ALL STABILISERS REPLACED.(R.2 EYE PULLED OUT) - (R.4 RUBBERS U/S)'.

**17.08.1990** Service defect: 'SW - BOGIE - - AXLE/BOX & BOLSTER SPRINGS CHECKED OK. - R.1,2&3 RESILIANTS CHECKED OK.'.

**17.08.1990** Service defect: 'SW - BOGIE - - CENTRE WEAR PLATES CHANGED.(MANGANESE) - RADIAL PLATES TORQUED BOTH ENDS.'.

**17.08.1990** Service defect: 'SW - BOGIE - - NO.3 SUPPORT REPLACED.(OPPOSITE DRIVE GEAR) - NO.4 SUPPORT REPLACED.(DRIVE GEAR SIDE)'.

**17.08.1990** Service defect: 'SW - BOGIE - - RADIAL PLATE CLEARANCES 1/8'.'.

**17.08.1990** Service defect: 'SW - BOGIE - ROUGH/RIDING - ALL BOLSTER WEAR PLATES REPLACED. - NO.1&2 SUPPORTS REPL'D.(EXCESS SIDE MOVEMENT)'.

**06.09.1990** Service defect: 'B - ENGINE PISTON - EXCESS RING CLEARANCE - NO.1,2&3 PISTONS REPLACED.'.

**31.10.1990** Service defect: 'A - AIR CONDITIONING - AIR/COND - INSTALLATION COMPLETED.'.

**31.10.1990** Service defect: 'A - BOGIE - COLLAPSED CAGE - L.3 AXLE/BOX BEARING CAGE & ROLLERS REPL'D.'.

**21.11.1990** Service defect: 'UN - AIR CONDITIONING - AIR/COND - UNIT INSTALLED.'.

**10.04.1991** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE, WIND UP WINDOW REPAIRED. OBSERVER SIDE,WIND UP WINDOW LUBRICATED.'.

**15.04.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - N.V.R. REPLACED & LOCO CHECKED OK.'.

**18.04.1991** Service defect: 'E - ENGINE PISTON - EXCESS RING/LAND CLEARANCE - NO.9&10 PISTONS REPLACED.'.

**18.04.1991** Service defect: 'E - ENGINE WATER LEAK - WATER LEAK - NO.14 CYL/HEAD REPLACED.'.

**20.06.1991** Service defect: 'A - BOGIE - NO 2 GEARCASE REPAIRED,A/C LOOSE.'.

**29.07.1991** Service defect: 'UN - AUXILLARY MACHINES - MOTOR BURNT/OUT - NO.4 T/MOTOR BLOWER FAN REPLACED.'.

**16.08.1991** Service defect: 'B - ENGINE PISTON - NO 6 PISTON CHANGED, A/C WORN RING LANDS.'.

**16.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 'B' END PACKAGE REPLACED.'.

**16.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE HANDLE REPLACED.'.

**16.08.1991** Service defect: 'B - NO 14 POWER ASSEMBLY TO MONITOR.16/8.'.

**13.09.1991** Service defect: 'TS - BROKEN VALVE - NO4 POWER ASSY REPLACED A/C DROPPED VALVE.'.

**13.09.1991** Service defect: 'TS - ENGINE WATER LEAK - MARLIN COUPLING REPAIRED,A/C WATER LEAK.WATER SAMPLE TAKEN.'.

**13.09.1991** Service defect: 'TS - LUBRICATING SYSTEM - OIL AND FILTERS CHANGED A/C FUEL DILUTION.'.

**25.09.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - LASH ADJUSTERS ADJUSTED CORRECTLY ON NO.4 HEAD.'.

**10.10.1991** Service defect: 'A - SMALL CRACK IN R4 PEDESTAL LINER TO MONITOR.10/10.'.

**20.11.1991** Service defect: 'TS - AIR CONDITIONING - AIR CON MODS COMPLETED.'.

**20.11.1991** Service defect: 'TS - GENERAL - CAB SIDE BLINDS FITTED.'.

**20.11.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - H.P. UNLOADER EX GM 19 FITTED TO COMPRESSOR,A/C INTERCOOLER SAFETY VALVE BLOWING,HP UNLOADER U/S.'.

**05.02.1992** Service defect: 'UN - AIR CONDITIONING - AIR CON REPAIRS COMPLETED.'.

**13.02.1992** Service defect: 'A - FUEL SYSTEM PUMP - FUEL PUMP REPLACED,ACCOUNT WORN COM.'.

**24.03.1992** Service defect: 'UN - AIR CONDITIONING - AIR CON. COMPRESSOR CHARGED.'.

**10.04.1992** Service defect: 'B - BOGIE - NO 6 GEAR CASE TIGHTENED.'.

**10.04.1992** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY VALVE REPLACED ON COMPRESSOR.'.

**01.07.1992** Service defect: 'A - BOGIE MAINTENANCE - WHEELS - L6 AXLE BOX REPLACED.-FRONT NOSE SUPPORT WEAR PLATES REWELDED.'.

**01.07.1992** Service defect: 'A - ELECTRICAL MISC. TRANSITION - FSI INTERLOCKS CLEANED.A/C CHATTERING BEFORE COMING IN.'.

**01.07.1992** Service defect: 'A - ENGINE - NO.9 TEST COCK REPLACED.'.
**05.04.1993** Service defect: 'F - ELECTRICAL MISC. HEADLIGHT - HEADLIGHTS ARE 300 WATT 75 VOLT GLOBES,AND ARE DIFFERENT TO THE EXISTING GLOBES - MUST NOT BE INTERCHANGED - SPARES -MPC'.
**05.04.1993** Service defect: 'F - ELECTRICAL MISCELLANEOUS - MARKER LIGHT ARRANGEMENT MODIFIED AS PER LATER CLASS LOCOS AND BOTH FRONT AND REAR LIGHTS ARE CONTROLLED FROM CAB.'.
**05.04.1993** Service defect: 'F - ENGINE - OVERHAULED ENGINE EX GM43;AIR INLET DUCT INSTALLED,ALL RODS,PISTONS,HEADS ETC BOLTS CHECKED AFTER LOAD TEST.'.
**05.04.1993** Service defect: 'F - ENGINE ROOM - ALL COMPONENTS OVERHAULED AND/OR REPLACED,CHECKED THEN INSPECTED PRIOR TO RELEASE.'.
**05.04.1993** Service defect: 'F - FUEL TANK - FUEL TANK DRAINED THEN REPAIRED A/C CRACKS AND LEAKS - ALL AREAS TESTED OK - PRESSURISED THEN RE-FITTED.'.
**05.04.1993** Service defect: 'F - GAUGES - EXTENSIVE MODIFICATIONS TO DASH PANEL,C/BREAKERS,FAULT LTS. AS PER V/LINE:DRVR'S VIG.LT.ARRANGEMENT IS DAY-OFF-NIGHT.'.
**05.04.1993** Service defect: 'F - GENERAL - AIR FRIDGE INSTALLED,BUT ICE BOX STILL PRESENT FOR STANDARD GAUGE WORKING - IN ORIGINAL POSITION - DRAINS MODIFIED.'.
**05.04.1993** Service defect: 'F - MAIN GENERATOR - MAIN GENERATOR,D14 AND AUXILIARY GENERATOR EX ISLINGTON LOAD TESTED OK. 1698 HP ON STAGE 3 LOADING - OK.'.
**24.04.1993** Service defect: 'TW - AIR CONDITIONING - AIR CONDITIONING VENTS REPAIRED.'.
**24.04.1993** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SAFETY VALVE REPLACED A/C LEAKING CONTINUOUSLY.'.
**24.04.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - DRIVERS INDEPENDANT TIGHTENED A/C LOOSE.'.
**24.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - DRIVERS SIDE WINDSCREEN REPLACED A/C SMASHED.'.
**10.05.1993** Service defect: 'UN - FUEL SYSTEM INJECTORS - NO 11 FUEL INJECTOR CHANGED, A/C LEAKING.'.
**10.05.1993** Service defect: 'UN - LUBRICATING SYSTEM - COPPER OIL PIPE IN TOP DECK REPAIRED, A/C BROKEN.'.
**17.05.1993** Service defect: 'A - AIR CONDITIONING - AIR/CON RECONNECTION COMPLETED.'.
**17.05.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - RUF1-4 CONTACTOR REPLACED.'.
**17.05.1993** Service defect: 'A - MECHANICAL EQUIPMENT - FILTER HATCH RECONNECTED.'.
**17.05.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - 'B'BOGIE PIGTAIL BOLTS REPLACED.'.
**17.05.1993** Service defect: 'A - NO 6 LINER TO MONITOR,A/C CHROME CHIPPED.14/5.'.
**27.05.1993** Service defect: 'UN - DYNAMIC BRAKE REGULATOR - DYN/BRAKE REGULATOR CHANGED,A/C CIRCUIT BOARD BURNT INSIDE. TESTED OK.'.
**25.06.1993** Service defect: 'SW - FUEL SYSTEM - FUEL TANK WELDED,A/C LEAKING. TESTING COMPLETED OK.'.
**30.06.1993** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - WIRE VA143 OM H TERMINAL ON BKP1 CONTACTOR REPAIRED,FOUND NOT CONNECTED,CAUSING EARTH ON CONTROL.'.
**30.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - R1 SAND HOSE REPLACED,ALL NEW SANDERS UNBLOCKED.'.
**30.08.1993** Service defect: 'UN - DYNAMIC BRAKE SETTING - DYN/BRAKE SET UP - REGULATION ADJUSTED, A/C TOO HIGH. BRAKE WARNING SETTING OK. REPAIRED LOOSE CONNECTION 5R146. D/B'.
**02.09.1993** Service defect: 'UN - ENGINE - CHECKED & TIGHTENED HEAT EXCHANGER BOLTS.'.
**02.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDANT BRAKE VALVE REPLACED.'.
**02.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - DR/SIDE WINDOW INSTALLATION COMPLETED.'.
**08.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - T/P REPAIRS - REPAIRED AIR HOSE 'A'END. LOCO TO TRAFFIC.'.
**20.09.1993** Service defect: 'A - CONTACTOR MISCELLANEOUS - RVF14 REPLACED, A/C BURNT CONTACTS.'.
**20.09.1993** Service defect: 'A - GENERAL - OBSERVERS SIDE DOOR RESEALED.'.
**20.09.1993** Service defect: 'A - LUBRICATING SYSTEM - OIL PIPE TO GOVERNOR REPAIRED, A/C CRACKED.'.
**20.09.1993** Service defect: 'A - TRACTION MOTOR BRUSHES - 6 BRUSHES CHANGED IN NO'S 1 & 2 T/M'S. 12 CHANGED IN 3,4 & 6A/C CONDEMNING LIMIT.'.
**15.11.1993** Service defect: 'TS - LUBRICATING SYSTEM - BROKEN OIL LINE TO GOVERNOR REPLACED, ENGINE OIL PRESSURE GAUGE REPLACED, A/C HOT ENGINES.'.
**15.11.1993** Service defect: 'TS - RADIATOR/PRESSURISING FAN - FANS CHECKED OK.'.
**23.11.1993** Service defect: 'UN - OIL FILTERS - MICHIANA OIL FILTERS CHANGED.'.
**23.11.1993** Service defect: 'UN - OVERHEATING - ETS SWITCH (ORIGINAL) ADJUSTED & INSTALLED, NEW TYPE NOT SUITABLE, A/C REQIURES 3 TERMINALS. ETS RESET TO 98DEGS, A/C'.
**23.11.1993** Service defect: 'UN - RADIATOR/PRESSURISING FAN - RAD FAN DIRECTION OK.'.
**10.12.1993** Service defect: 'C - BOGIE - ALL LATERALS CHECKED OK.'.
**10.12.1993** Service defect: 'C - COOLING SYSTEM - COOLANT CHANGED.'.
**10.12.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - 12 BRUSHES CHANGED ON ALL SIX T/M'S.'.
**10.12.1993** Service defect: 'C - VIGILANCE - VIGILANCE PENALTY CHOKE ADJUSTED, NEW SEAL FITTED.'.
**22.12.1993** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - FSR2 WIRESECOND STAGE FIELD SHUNTREPAIRED A/C FOUND BROKENAND LOCO NOT MAKING SECOND TRANSITION.'.
**03.01.1994** Service defect: 'UN - NO FAULT FOUND - LOCO SHUTTING DOWN, NO FAULT FOUND. RESET GOVERNOR. 50PSI OIL PRESSURE IN IDLE. 60PSI IN

NOTCH 8.'.
**14.01.1994** Service defect: 'UN - NO FAULT FOUND - EARTH ON CONTROL. NO FAULT FOUND IN DEPOT. SENT INTO TRAFFIC ON CONTROL TO MONITOR.'.
**18.01.1994** Service defect: 'TS - TRACTION MOTOR - NO.5 T/M CHANGED A/C EARTH ON INTERPOLE.'.
**21.01.1994** Service defect: 'UN - BOGIE - SIDE SLAP REPORTED. RESILIENT RUBBERS AND THRUST BLOCKS CHECKED OK. LATERALS ADJUSTED ON NO.4 W/SET.'.
**21.01.1994** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NO TRANSITION - PULLING ONLY 300AMPS. TRANSITION TESTED STATICALLY AND WITH M/GEN. SET OK. NO FAULT EVIDENT.'.
**01.02.1994** Service defect: 'TS - CONTACTOR MISCELLANEOUS - ALL CONTACTORS OK.'.
**01.02.1994** Service defect: 'TS - DYNAMIC BRAKE - DYN/BRAKE REGULATOR INSTALLED, A/C U/S.'.
**01.02.1994** Service defect: 'TS - TRACTION MOTOR - T/M'S CHECKED OK.'.
**03.02.1994** Service defect: 'TS - DYNAMIC BRAKE - MIDDLE GRID DRIVERS SIDE CHANGED, A/C ARCING AND SPARKING.'.
**03.02.1994** Service defect: 'TS - DYN/BRAKE CUT OUT, NOT TO OPERATE.3/2.'.
**15.02.1994** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DYNAMIC BRAKE GRIDS REPLACED, A/C OVER-HEATED. GRIDS EX GM38PT. AUGUSTA. DYN. BRAKE FAN CHECKED OK. LOCO TO TRIAL RUN.'.
**17.02.1994** Service defect: 'UN - D/B, UNABLE TO SET UP, A/C DBR UNIT FAULTY, NONE'.
**17.02.1994** Service defect: 'UN - IN STOCK (213405) ALL WIRING CHECKED OK. D/B DISCO'.
**17.02.1994** Service defect: 'UN - NNECTED AND TAGGED.17/2/94.'.
**03.03.1994** Service defect: 'A - OTHER BODY REPAIRS - D/SIDE WINDOW REPAIRED.'.
**03.03.1994** Service defect: 'A - TRACTION MOTOR BRUSHES - T/M BRUSH HOLDER REPLACED, CLEANED UP AND CABLE CONNECTED.'.
**05.04.1994** Service defect: 'SW - DYNAMIC BRAKE - DYN/BRAKE OPERATION TO CHECK, LOCO SENT ON TRIAL RUN.'.
**29.04.1994** Service defect: 'TS - TRACTION MOTOR - NO 3 T/MOTOR REPLACED, A/C ARMATURE BLOWN.'.
**29.04.1994** Service defect: 'TS - TRACTION MOTOR BRUSHES - BRUSHES CHANGED IN ALL MOTORS EXCEPT NO 5, ALL CHECKED OK.'.
**26.05.1994** Service defect: 'B - BATTERY MAINTENANCE - BATTERIES CHARGED AND CHECKED OK.'.
**26.05.1994** Service defect: 'B - BOGIE - R3 VERTICAL SHOCKER AND RUBBERS CHECKED OK.'.
**26.05.1994** Service defect: 'B - FUEL SYSTEM INJECTORS - RETAINING CLIP REPLACED ON INJECTOR ARM NO 12 CYL.'.
**26.05.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - R3,R6, AND L3 SANDERS CLEARED.'.
**99.99.9999** Service defect: 'SW - SCHEDULED WORK'.

## 2.23 Locomotive classification starting with 'GML'

### GML 10

Details: locomotive 'GML 10 X' in AN 'Mainland Division'.

**Owner:** GOLDSWORTH
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.05.1990
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2424kw
**Remarks:** OWNED BY GOLDSWORTHY MINING LTD
**BSG Code:** LSWO

| Corporate ID flag: | Y |
|---|---|

## 2.24 Locomotive classification starting with 'H'

### H 1

Details: locomotive 'H 1 R' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 13m
**Tare Weight:** 72.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** S+B
**Bogie Configuration:** CO-CO
**Date Built:** 01.12.1964
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 642kw
**Remarks:** IN SERVICE 19.03.1965
**BSG Code:** LBWO

### H 2

Details: locomotive 'H 2 D' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 13m
**Tare Weight:** 72.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.12.1964
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 642kw
**Remarks:** IN SERVICE 21.05.1965
**BSG Code:** LBWO

**H 3**

Details: locomotive 'H 3 M' in AN 'Mainland Division'.

**Owner:** WEESTRAIL
**Length Over Headstocks:** 13m
**Tare Weight:** 72.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.12.1964
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 642kw
**Remarks:** IN SERVICE 14.01.1965
**BSG Code:** LSWO

**H 4**

Details: locomotive 'H 4 V' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 13m
**Tare Weight:** 72.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.12.1964
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 642kw
**Remarks:** IN SERVICE 19.02.1965
**BSG Code:** LBWO

**H 5**

Details: locomotive 'H 5 H' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 13m
**Tare Weight:** 72.4tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.12.1964
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 642kw
**Remarks:** IN SERVICE 14.01.1965
**BSG Code:** LBWO

## 2.25 Locomotive classification starting with 'HTA'

**HTAS 2**

Details: locomotive 'HTAS 2 H' in AN 'Tasmania Division'.

**Owner:** TSL CO P/L
**Operator:** C
**Length Over Headstocks:** 19.1m
**Tare Weight:** 112.7tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1951
**Operating System:** DON RIVER RAILWAY
**Intended Use:** MAINLINE
**Installed Power:** 400kw
**Remarks:** TAS LOCO STEAM COMPANY
**BSG Code:** LTSO

## 2.26 Locomotive classification starting with 'IW'

**IW 1**

Details: locomotive 'IW 1 S' in AN 'Mainland Division'.

**Owner:** ARIES
**Length Over Headstocks:** 6.8m
**Tare Weight:** 19.5tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 01.01.1996
**Operating System:** WESTRAIL
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 1000kw
**Remarks:** INFRASTRUCTURE WEST1(HY-RAIL PRIME MOVER
**BSG Code:** LBAS

## 2.27 Locomotive classification starting with 'J'

**J 102**

Details: locomotive 'J 102 M' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Operator:** D
**Length Over Headstocks:** 13.1m
**Tare Weight:** 67tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** WESTRAIL
**Intended Use:** SHUNT
**Installed Power:** 726kw
**BSG Code:** LSWO

**J 103**

Details: locomotive 'J 103 V' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Operator:** D
**Length Over Headstocks:** 13.1m
**Tare Weight:** 67tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** WESTRAIL
**Intended Use:** SHUNT
**Installed Power:** 726kw
**BSG Code:** LSWO

**J 104**

Details: locomotive 'J 104 H' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Operator:** D
**Length Over Headstocks:** 13.1m
**Tare Weight:** 67tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** WESTRAIL
**Intended Use:** SHUNT
**Installed Power:** 726kw
**BSG Code:** LSWO

**J 105**

Details: locomotive 'J 105 Q' in AN 'Mainland Division'.

**Owner:** NRC
**Operator:** D
**Length Over Headstocks:** 13.1m
**Tare Weight:** 67tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Original Cost:** $10
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** WESTRAIL
**Intended Use:** SHUNT
**Installed Power:** 726kw
**BSG Code:** LSWO

| | |
|---|---|
| Fleet Grp Code: | AH |
| Return to Service Date: | 02.01.1970 |

## 2.28 Locomotive classification starting with 'K'

**K 201**

Details: locomotive 'K 201 L' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 16.8m
**Tare Weight:** 110.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.02.1966
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1339kw
**Remarks:** IN SERVICE 07.02.1966
**BSG Code:** LSWO

**K 204**

Details: locomotive 'K 204 P' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 16.8m
**Tare Weight:** 110.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.02.1966
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1339kw
**Remarks:** IN SERVICE 13.10.1966
**BSG Code:** LSWO

**K 205**

Details: locomotive 'K 205 B' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 16.8m
**Tare Weight:** 110.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.02.1966
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1339kw
**Remarks:** IN SERVICE 25.10.1966
**BSG Code:** LSWO

**K 206**

Details: locomotive 'K 206 K' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 16.8m

**Tare Weight:** 110.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.02.1966
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1339kw
**Remarks:** IN SERVICE 08.12.1966
**BSG Code:** LSWO

**K 207**

Details: locomotive 'K 207 T' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 16.8m
**Tare Weight:** 110.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.02.1966
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1339kw
**Remarks:** IN SERVICE 19.12.1966
**BSG Code:** LSWO

**K 208**

Details: locomotive 'K 208 F' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 16.8m
**Tare Weight:** 110.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 02.02.1966
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1339kw
**Remarks:** IN SERVICE 31.12.1966
**BSG Code:** LSWO

**K 209**

Details: locomotive 'K 209 Y' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 16.8m
**Tare Weight:** 110.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1339kw
**Remarks:** IN SERVICE 23.02.1967
**BSG Code:** LSWO

**K 210**

Details: locomotive 'K 210 K' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 16.8m
**Tare Weight:** 110.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1339kw
**BSG Code:** LSWO

## 2.29 Locomotive classification starting with 'KS'

**KS 159**

Details: locomotive 'KS 159 Q' in AN 'Mainland Division'.

**Owner:** VIC
**Length Over Headstocks:** 20m
**Tare Weight:** 114tonne
**Gauge Restrictions:** B
**Bogie Configuration:** 0-6-0
**Date Built:** 01.01.1922
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Remarks:** STEAM LOCO
**BSG Code:** LBVO

**KS 190**

Details: locomotive 'KS 190 N' in AN 'Mainland Division'.

**Owner:** VIC
**Length Over Headstocks:** 20m
**Tare Weight:** 114tonne
**Gauge Restrictions:** B
**Bogie Configuration:** 0-6-0
**Date Built:** 01.01.1922
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Remarks:** USED FOR SPECIAL STEAM TRAIN
**BSG Code:** LBVO

## 2.30 Locomotive classification starting with 'L'

**L 251**

Details: locomotive 'L 251 G' in AN 'Mainland Division'.

**Owner:** WESTRAIL

**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Diagram Book Page No.:** O
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 27.10.1967
**BSG Code:** LSWO

**L 252**

Details: locomotive 'L 252 P' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 20.11.1967
**BSG Code:** LSWO

**L 253**

Details: locomotive 'L 253 B' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 14.12.1967
**BSG Code:** LSWO

| | |
|---|---|
| Corporate ID flag: | Y |
| Return to Service Date: | 28.10.1989 |

**28.10.1989** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - MICRO SWITCH ON ELD.REPLACED,A/C NOT PULLING AMPS.TESTED IN POWER OK.'.

**L 254**

Details: locomotive 'L 254 K' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 05.01.1968
**BSG Code:** LSWO

**L 255**

Details: locomotive 'L 255 T' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 08.02.1968
**BSG Code:** LSWO

**L 256**

Details: locomotive 'L 256 F' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 14.03.1968
**BSG Code:** LSWO

**L 257**

Details: locomotive 'L 257 Y' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.02.1968
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw

**Remarks:** IN SERVICE 08.03.1968
**BSG Code:** LSWO

**L 258**

Details: locomotive 'L 258 A' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.02.1968
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 28.03.1968
**BSG Code:** LSWO

**L 259**

Details: locomotive 'L 259 J' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.02.1968
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 19.04.1968
**BSG Code:** LSWO

**L 260**

Details: locomotive 'L 260 F' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.03.1968
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 24.05.1968
**BSG Code:** LSWO

**L 261**

Details: locomotive 'L 261 Y' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.06.1968
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 14.08.1968
**BSG Code:** LSWO

**L 262**

Details: locomotive 'L 262 A' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.06.1968
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SWERVICE 23.08.1968
**BSG Code:** LSWO

| | |
|---|---|
| Corporate ID flag: | Y |
| Return to Service Date: | 11.02.1989 |

**L 263**

Details: locomotive 'L 263 J' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1968
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 11.10.1968
**BSG Code:** LSWO

**L 264**

Details: locomotive 'L 264 S' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1968
**Operating System:** WESTRAIL

**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 16.10.1968
**BSG Code:** LSWO

**L 265**

Details: locomotive 'L 265 E' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1968
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 18.10.1968
**BSG Code:** LSWO

**L 266**

Details: locomotive 'L 266 N' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1968
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** IN SERVICE 25.10.1968
**BSG Code:** LSWO

**L 267**

Details: locomotive 'L 267 W' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**BSG Code:** LSWO

| | |
|---|---|
| Corporate ID flag: | Y |
| Return to Service Date: | 10.12.1988 |

**L 268**

Details: locomotive 'L 268 X' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**BSG Code:** LSWO

**L 269**

Details: locomotive 'L 269 R' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**BSG Code:** LSWO

**L 270**

Details: locomotive 'L 270 N' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**BSG Code:** LSWO

**L 271**

Details: locomotive 'L 271 W' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL

**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**BSG Code:** LSWO

**L 272**

Details: locomotive 'L 272 X' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**BSG Code:** LSWO

**L 273**

Details: locomotive 'L 273 R' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**BSG Code:** LSWO

**L 274**

Details: locomotive 'L 274 D' in AN 'Mainland Division'.

**Owner:** W.M.CO.
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** OWNED BY WESTERN MINING COMPANY
**BSG Code:** LSWO

**L 275**

Details: locomotive 'L 275 M' in AN 'Mainland Division'.

**Owner:** W.M.CO.
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1967
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**Remarks:** OWNED BY WESTERN MINING COMPANY
**BSG Code:** LSWO

## 2.31 Locomotive classification starting with 'LW'

**LW 276**

Details: locomotive 'LW 276 V' in AN 'Mainland Division'.

**Owner:** WESTRAIL
**Operator:** D
**Length Over Headstocks:** 19.4m
**Tare Weight:** 137tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.10.1994
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 2163kw
**BSG Code:** LSWO

## 2.32 Locomotive classification starting with 'MA'

**MA 2**

Details: locomotive 'MA 2 K' in AN 'Tasmania Division'.

**Owner:** VAN DIEMAN
**Operator:** C
**Length Over Headstocks:** 18.1m
**Tare Weight:** 98tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1951
**Operating System:** DON RIVER RAILWAY
**Intended Use:** MAINLINE
**Installed Power:** 200kw
**Remarks:** VAN DIEMAN LIGHT RAILWAY SOCIETY INC
**BSG Code:** LTSO

**MA 4**

Details: locomotive 'MA 4 F' in AN 'Tasmania Division'.

**Owner:** DON RIVER
**Operator:** C
**Length Over Headstocks:** 18.1m
**Tare Weight:** 98tonne

**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** 4-6-2
**Date Built:** 01.01.1952
**Operating System:** DON RIVER RAILWAY
**Intended Use:** MAINLINE
**Installed Power:** 200kw
**Remarks:** VAN DIEMAN LIGHT RAILWAY SOCIETY INC
**BSG Code:** LTSO

## 2.33 Locomotive classification starting with 'N'

**N 451**

Details: locomotive 'N 451 W' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1985
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 13.10.1989 | | |
| US Service Mileage: | 579614 KM | A Service Date: | 13.10.1989 |

**N 452**

Details: locomotive 'N 452 X' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1985
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 10.07.1989 | | |
| US Service Mileage: | 536784 KM | A Service Date: | 10.07.1989 |

**N 453**

Details: locomotive 'N 453 R' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1985
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 11.02.1990 | | |
| US Service Mileage: | 727890 KM | A Service Date: | 11.02.1990 |

**01.09.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE GRIDS & BLOWER MOTOR CHECKED OK,ANNUNCIATOR RESET. D/BRAKE CHECKED OK IN DEPOT.'.
**11.02.1990** Service defect: 'UN - 'A'END H.E.PJUMPER HEAD TO REPLACE DYNON ADVISED.'.

**N 454**

Details: locomotive 'N 454 D' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1985
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 01.02.1990 | | |
| US Service Mileage: | 630538 KM | A Service Date: | 01.02.1990 |

**01.02.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - 2 BRUSHES CHANGED IN NO 6 TM A/C G/RELAY.'.

**N 455**

Details: locomotive 'N 455 M' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B

**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1985
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** 'CITY OF SWAN HILL'
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 02.06.1990 | | |
| US Service Mileage: | 714116 KM | A Service Date: | 02.06.1990 |

**29.05.1990** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.FAULT ON N459.'.

**N 456**

Details: locomotive 'N 456 V' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1985
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** 'CITY OF COLAC'
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 10.01.1990 | | |
| US Service Mileage: | 683634 KM | A Service Date: | 10.01.1990 |

**08.12.1989** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO4 & 6 TM'S HAD CRACKED BRUSHES & BROKEN PIGTAILS.'.

**N 457**

Details: locomotive 'N 457 H' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1985
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** 'CITY OF MILDURA'
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 03.04.1989 | | |
| US Service Mileage: | 531923 KM | A Service Date: | 03.04.1989 |

**N 458**

Details: locomotive 'N 458 Q' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1985
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 26.04.1990 | | |
| US Service Mileage: | 740787 KM | A Service Date: | 26.04.1990 |

**26.04.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - SEVERAL BRUSHES REPLACED IN NO6 TM.'.

**N 459**

Details: locomotive 'N 459 C' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 24.04.1990 | | |
| US Service Mileage: | 674226 KM | A Service Date: | 24.04.1990 |

**04.07.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY,CHECKED OK.'.

**N 460**

Details: locomotive ‘N 460 V’ in AN ‘Mainland Division’.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1985
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** ‘CITY OF CASTLEMAINE‘
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

**N 461**

Details: locomotive ‘N 461 H’ in AN ‘Mainland Division’.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1986
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 11.03.1990 | | |
| US Service Mileage: | 634923 KM | A Service Date: | 11.03.1990 |

**07.03.1990** Service defect: ‘UN - AUXILLARY MACHINES - HEP UNIT BOOKED NOT WORKING.CHECKED,WORKING OK IN DEPOT.’.

**N 462**

Details: locomotive ‘N 462 Q’ in AN ‘Mainland Division’.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1986
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** ‘CITY OF SHEPPARTON‘
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 04.02.1993 | | |
| WT Service Mileage: | 1204363 KM | WT Service Date: | 04.02.1993 |
| US Service Mileage: | 382824 KM | A Service Date: | 16.11.1988 |

**N 463**

Details: locomotive ‘N 463 C’ in AN ‘Mainland Division’.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1986
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** ‘CITY OF BENDIGO‘
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 02.05.1989 | | |
| US Service Mileage: | 467104 KM | A Service Date: | 02.05.1989 |

**N 464**

Details: locomotive ‘N 464 L’ in AN ‘Mainland Division’.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1986
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

**N 465**

Details: locomotive ‘N 465 U’ in AN ‘Mainland Division’.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad

**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1986
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** 'CITY OF BALLARAT'
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

**N 466**

Details: locomotive 'N 466 G' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1986
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 06.06.1989 | | |
| US Service Mileage: | 418343 KM | A Service Date: | 06.06.1989 |

**N 467**

Details: locomotive 'N 467 P' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1986
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

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|---|---|---|---|
| Return to Service Date: | 21.04.1990 | | |
| US Service Mileage: | 581745 KM | A Service Date: | 21.04.1990 |

**N 468**

Details: locomotive 'N 468 B' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1986
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** 'CITY OF BAIRNSDALE'
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 25.10.1989 | | |
| US Service Mileage: | 437807 KM | A Service Date: | 25.10.1989 |

**11.10.1989** Service defect: 'FA - EARTH FAULT MISCELLANEOUS - EARTH ON LUBE PUMP.RETURNED TO V/LINE FOR REPAIRS.'.
**25.10.1989** Service defect: 'UN - AUXILLARY MACHINES - HEP SHUT DOWN.CIRCUIT BREAKERS RESET.NO FAULT FOUND.'.

**N 469**

Details: locomotive 'N 469 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** 'CITY OF MORWELL'
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

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|---|---|---|---|
| Return to Service Date: | 07.01.1990 | | |
| US Service Mileage: | 488439 KM | A Service Date: | 07.01.1990 |

**N 470**

Details: locomotive 'N 470 G' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1987
**Operating System:** V/LINE

**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

**N 471**

Details: locomotive 'N 471 P' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

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|---|---|---|---|
| Return to Service Date: | 30.04.1990 | | |
| US Service Mileage: | 549555 KM | A Service Date: | 30.04.1990 |

**22.08.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE BOOKED FAULTY.CHECKED OK.'.
**26.03.1990** Service defect: 'UN - TRACTION MOTOR FLASHOVER - SEVERAL BRUSHES CHANGED IN NO 2,3,4,5 T/M'S.MEGGERED,20M.'.

**N 472**

Details: locomotive 'N 472 B' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 18.04.1990 | | |
| US Service Mileage: | 527096 KM | A Service Date: | 18.04.1990 |

**N 473**

Details: locomotive 'N 473 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 19.04.1990 | | |
| US Service Mileage: | 536412 KM | A Service Date: | 19.04.1990 |

**12.01.1990** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - CHECKED FOR GR'S,HAULED BACK TO VIC A/C NO SPARE BRUSHES.'.

**N 474**

Details: locomotive 'N 474 T' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Remarks:** 'CITY OF TRARALGON'
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

**N 475**

Details: locomotive 'N 475 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 19.1m
**Tare Weight:** 123tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1987
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1680kw
**Wagon Width:** 3122mm
**Wagon Height:** 4260mm
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 02.06.1990 | | |
| US Service Mileage: | 512530 KM | A Service Date: | 02.06.1990 |

**03.04.1990** Service defect: 'UN - GASKET TO REPLACE ON OIL COOLER OF HEP'.

## 2.34 Locomotive classification starting with 'NB'

**NB 30**

Details: locomotive 'NB 30 T' in AN 'Mainland Division'.

**Owner:** AN
**Length Over Headstocks:** 5.7m
**Tare Weight:** 18.3tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** C
**Original Cost:** $25170
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** NN 2A
**Date Built:** 01.01.1957
**Operating System:** ON LOAN
**Intended Use:** SHUNT
**Installed Power:** 140kw
**Remarks:** W/O 20.09.86;ON PERM. LOAN TO P.R.R.P.S.
**BSG Code:** LMSO

## 2.35 Locomotive classification starting with 'NC'

**NC 1**

Details: locomotive 'NC 1 G' in AN 'Mainland Division'.

**Owner:** SRPS
**Length Over Headstocks:** 6.5m
**Tare Weight:** 28.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** 0-6-0
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Date Built:** 01.01.1950
**Operating System:** SRPS
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 250kw
**Remarks:** BUILT CLYDE NSW MODEL D-H MOTOR GM 6-110
**BSG Code:** LMSO

## 2.36 Locomotive classification starting with 'NJ'

**NJ 1**

Details: locomotive 'NJ 1 U' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.2m
**Tare Weight:** 70tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $272420
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NN 6
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**Remarks:** NAMED 'BEN CHIFLEY'
**BSG Code:** LEAJ

| | | | |
|---|---|---|---|
| Return to Service Date: | 05.01.1996 | | |
| SW Service Mileage: | 670772 KM | SW Service Date: | 06.11.1992 |
| A Service Mileage: | 720392 KM | A Service Date: | 27.08.1993 |
| B Service Mileage: | 689155 KM | B Service Date: | 22.01.1993 |
| C Service Mileage: | 749741 KM | C Service Date: | 16.11.1993 |
| D Service Mileage: | 604376 KM | D Service Date: | 04.06.1991 |
| US Service Mileage: | 1244777 KM | A Service Date: | 13.04.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**19.02.1991** Service defect: 'A - BOGIES TO BE CHANGED.'.
**07.03.1991** Service defect: 'TW - COMPRESSOR GOVERNOR TO BE CLEANED & LUBRICATED.'.
**12.03.1991** Service defect: 'SW - ENGINE - TRACTION MOTOR BLOWER MOUNTING BOLT REPLACED.AUX GENERATOR DRIVE COUPLING BOLT REPLACED.'.
**04.04.1991** Service defect: 'FA - TRACTION MOTOR - NO 5 T/MOTOR CABLES REPAIRED.'.
**04.04.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CLEANED LUBRICATED & ADJUSTED.'.
**30.04.1991** Service defect: 'TW - MECH. EQUIPMENT RADIATOR FAN GEARBOX - RENEW BEARINGS T/M BLOWER SHAFT ADJUST BACKLASH MODIFY WATER LINE CHANGE VOLTAGE REGULATOR'.
**14.06.1991** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - ALL WHEELS CHANGED ACC PROFILES.'.
**08.07.1991** Service defect: 'SW - REVERSER LOCK PLATE'.
**26.08.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - WINDSREEN WASHERS FITTED.'.
**22.10.1991** Service defect: 'TW - AIR CONDITIONING - AIRCONDITIONER SERVICED'.
**22.10.1991** Service defect: 'TW - BOGIE - N0 5 & 6 T/M GEAR CASE CRATER LIDS MODIFIED.'.
**06.11.1991** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE EXHAUST FITTED WITH 1"TUBE TO OUTSIDE OF CAB.'.
**18.11.1991** Service defect: 'TW - AIR CONDITIONING - NEW CLUTCH & A 66 V BELTS FITTED TO AIRCONDITIONER COMPRESSOR.'.
**29.01.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VIG. WARNING LAMP BLOWN-REPLACED'.
**29.01.1992** Service defect: 'UN - LUBRICATING SYSTEM - INTERCOOLER END PLATE LEAKING-TIGHTEND'.

**30.01.1992** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - BARREL UNION LOOSE NO.1 R.H.S.'.
**12.02.1992** Service defect: 'TW - GENERAL - ELECTRIC KETTLE FITTED.'.
**12.02.1992** Service defect: 'TW - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDANT BRAKE VALVE REPLACED.'.
**12.02.1992** Service defect: 'TW - OTHER BODY REPAIRS - WINDOW RUBBER SEALS SEALED. AIR CONDITIONER LID SEAL REPAIRED.'.
**28.02.1992** Service defect: 'SW - VIGILANCE - 2 WAY VALVE CLEANED LUBED,TESTED & ADJUSTED.'.
**02.03.1992** Service defect: 'TW - ENGINE WATER LEAK - BRANCH CROSS OVER PIPE FROM WATER PUMPS REPAIRED.'.
**04.03.1992** Service defect: 'SW - BOGIE - T/M GEAR CASE FILLER CAPS MODIFIED NO 1,2,3 & 4.'.
**01.05.1992** Service defect: 'TW - CONTACTOR MISCELLANEOUS - LOOSE WIRE TOO P.K.S. - TIGHTEND'.
**01.05.1992** Service defect: 'TW - RADIO REPAIR - TRANSCEIVER INTERMITTANT FAULT - REPLACED'.
**20.05.1992** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - CAP REPLACED NUMBER 2 SAND BOX OBSERVERS SIDE'.
**09.06.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - L/H/S AUX GEN MOUNTING BOLTS REPLACED.'.
**09.10.1992** Service defect: 'FA - AUXILLARY MACHINES - AUX GEN REPLACED.'.
**09.10.1992** Service defect: 'FA - MECH. EQUIPMENT RADIATOR FAN GEARBOX - SPEED INCREASER GEARBOX REBUILT.T/M IMPELLER REPLACED B END.'.
**09.10.1992** Service defect: 'FA - MECHANICAL EQUIPMENT - A END T/M IMPELLER REPLACED.CANVAS AIR DUCTING MODIFIED.'.
**02.11.1992** Service defect: 'SW - OTHER BODY REPAIRS - LOCO PAINTED.'.
**06.11.1992** Service defect: 'SW - MAIN GENERATOR - COMM CLEANED MAIN GEN.'.
**29.04.1993** Service defect: 'TW - BOGIE - THREE BRAKE BLOCKS CHANGED'.
**29.04.1993** Service defect: 'TW - DOORS - RHS CAB DOOR LUBRICATED'.
**29.04.1993** Service defect: 'TW - DOORS - RHS ENGINE ROOM DOOR ADJUSTED'.
**18.05.1993** Service defect: 'TW - SLIDING WINDOWS - OBSERVERS SIDE WINDOW CRACKED - REPLACED.'.
**25.05.1993** Service defect: 'TW - AIR CONDITIONING PANEL - AIR CONDITIONING LEAKING WATER AROUND UNIT WHEN RAINING - RESEALED.'.
**24.06.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED AND 2 BLOCKS CHANGED'.
**24.06.1993** Service defect: 'TW - FINAL DRIVE - COUPLING BOLTS TIGHTEND FROM ENGINE TO AIR COMPRESSOR.'.
**24.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDING VALVES CLEARED.'.
**28.07.1993** Service defect: 'TW - ADJUST BRAKES - TWO BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED'.
**28.07.1993** Service defect: 'TW - DOORS - OBSERVERS SIDE DOOR SEALS LUBRICATED.'.
**11.08.1993** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - FRONT BOGIE RHS BRAKE FULCRUM ARM MIS-ALIGNED - ARM REPLACED'.
**12.08.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED AND TWO BRAKE BLOCKS CHANGED.'.
**12.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - FRONT LHS BRAKE ARM CHANGED - WORN PINS AND BUSHES.'.
**23.08.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED FOUR BLOCKS CHANGED.'.
**23.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**20.10.1993** Service defect: 'TW - ADJUST BRAKES - 3 BLOCKS CHANGED'.
**20.10.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - NEW WICK OIL AND SEAL REPLACED #3 LHS'.
**27.10.1993** Service defect: 'TW - ADJUST BRAKES - 5 BRAKE BLOCKS CHANGED.'.
**27.10.1993** Service defect: 'TW - EXHAUST - EXHAUST TIGHTENED.'.
**27.10.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**03.11.1993** Service defect: 'TW - ADJUST BRAKES - TWO BRAKE BLOCKS CHANGED.'.
**09.11.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - RECTIFIER BANK BRAKING DOWN UNDER VOLTAGE - CHANGED. ALLOWING D VALVE TO ENERGISE WHEN C VALVE ENERGISED.'.
**09.11.1993** Service defect: 'TW - ENGINE GOVERNOR - ENGINE GOVERNOR CHANGED - ORS OPEN CIRCUIT.'.
**16.11.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - RVF3 CHANGED OUT - BURNT OUT CONTACTS.'.
**16.11.1993** Service defect: 'C - ELECTRICAL MISC. LOOSE CONNECTIONS - ALARM BELL NOT WORKING - LOOSE CONNECTION.'.
**08.02.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - PIPES #2 & 4 LHS AND # 2 RHS FROM SAND BOXES REPAIRED.'.
**99.99.9999** Service defect: 'SW - BOGIE CHANGE DUE TO WHEEL CONDITION.'.

**NJ 2**

Details: locomotive 'NJ 2 G' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.2m
**Tare Weight:** 70tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $272420
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NN 6
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**BSG Code:** LEAJ

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 21.08.1995 | | |
| Last Lift: | 30.11.1993 | | |
| SW Service Mileage: | 677703 KM | SW Service Date: | 28.10.1992 |
| A Service Mileage: | 147125 KM | A Service Date: | 10.03.1995 |
| B Service Mileage: | 65185 KM | B Service Date: | 29.05.1994 |
| C Service Mileage: | 116707 KM | C Service Date: | 28.11.1994 |
| D Service Mileage: | 605533 KM | D Service Date: | 06.02.1992 |
| F Service Mileage: | 685409 KM | A Service Date: | 30.11.1993 |
| US Service Mileage: | 164459 KM | A Service Date: | 07.07.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**18.02.1991** Service defect: 'A - L.H.S.BLOWER END COVER SEALS TO REPLACE.'.

**07.03.1991** Service defect: 'TW - COMPRESSOR GOVERNOR TO BE CLEANED & LUBRICATED.'.

**12.03.1991** Service defect: 'SW - ENGINE - LHS BLOWER END COVER GASKET REPLACED.'.

**12.03.1991** Service defect: 'SW - WINDSCREEN WIPER CONTROL VALVE TO BE REPLACED.'.

**20.03.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - WINDSCREEN WIPER CONTROL VALVE REPLACED.'.

**23.08.1991** Service defect: 'SW - AUXILLARY MACHINES - AUXILLIARY GENERATOR REPLACED.VOLTAGE REGULATOR REPLACED'.

**23.08.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - WINDSCREEN WASHERS FITTED.'.

**27.09.1991** Service defect: 'UN - ENGINE - EXHAUST LEAK REPAIRED.'.

**27.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDANT BRAKE VALVE CHANGED.'.

**21.10.1991** Service defect: 'SW - BOGIE - BOTH BOGIES CHANGED ACC WHEELS'.

**16.11.1991** Service defect: 'SW - MECH. EQUIPMENT RADIATOR FAN GEARBOX - SPEED INCREASER BLOWER GEAR KEY REPLACED & GEAR LOCTITED.'.

**29.11.1991** Service defect: 'UN - BOGIE - NO 5 T/MOTOR GEAR CASE CRATER LID MODIFIED.'.

**29.11.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO 5 T/MOTOR CHANGED ACC INTERPOLES & ARMATURE TO EARTH.'.

**08.01.1992** Service defect: 'UN - ENGINE - NO 5 TEST COCK REPLACED.'.

**27.02.1992** Service defect: 'SW - AIR CONDITIONING - MOISTURE VACUATED,DRIERS REPLACED & UNIT REGASSED.'.

**04.03.1992** Service defect: 'TW - GENERAL - ELECTRIC KETTLE FITTED.'.

**29.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES. TWO CHANGED OUT.'.

**21.08.1992** Service defect: 'A - BATTERY MAINTENANCE - R/H/S SECOND FROM FRONT BATTERY CHANGED.'.

**21.08.1992** Service defect: 'A - CONTACTOR MISCELLANEOUS - RVR4 CONTACTOR REPAIRED.'.

**28.10.1992** Service defect: 'SW - ENGINE - TOP DECK SEALS REPLACED.'.

**28.10.1992** Service defect: 'SW - EXHAUST - ALL EXHAUST GASKETS REPLACED,BLOCK TO MANIFOLD.'.

**28.10.1992** Service defect: 'SW - FINAL DRIVE - ENGINE TO COMPRESSOR FRONT COUPLING RUBBERS REPLACED.'.

**30.10.1992** Service defect: 'UN - AUXILLARY MACHINES - AUX GENERATOR CHANGED,ACC OPEN CIRCUIT.'.

**25.11.1992** Service defect: 'CA - BOGIE - DERAILMENT REPS,BELLOWS,BOLSTER SPRING,SAFETY BRACKETS,B END'.

**25.11.1992** Service defect: 'CA - GENERAL ACCIDENT - PILOT REBUILT,SAND BOXES,STEPS,AIR BRAKE PIPES B END REPLACED.'.

**25.11.1992** Service defect: 'CA - MECHANICAL EQUIPMENT COMPRESSOR - COMP REMOVED & CRACKED MOUNTING REPAIRED.ACC DERAILMENT,PP22'.

**27.12.1992** Service defect: 'UN - SENT TO PORT AUGUSTA A/C BURNT OUT'.

**29.10.1993** Service defect: 'UN - ENGINE - ENGINE O/HAULED,GEN O/HAULED,BODY REBUILT,ALL COMPONENTS AREREPAIRED,O/HAULED & TESTED.CAB REFURBISHED TO NATIONAL CAB'.

**17.12.1993** Service defect: 'FA - ELECTRICAL MAINTENANCE -WIRING - POWER AND CONTROL CIRCUITS HOOKED TOGETHER CAUSING EARTH FAULT - RECTIFIED.'.

**17.12.1993** Service defect: 'FA - ELECTRICAL MISCELLANEOUS - RECTIFIER CR62A FAULTY REPLACED'.

**17.01.1994** Service defect: 'TW - REFRIGERATION & AIR CON - AIR CONDITIONER BELTS OFF - REPLACED.'.

**17.01.1994** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTOR # 4 & 5 TO EARTH - CHANGED.'.

**24.01.1994** Service defect: 'FA - TRACTION MOTOR EARTH - TRACTION MOTOR # 6 INTERPOL EARTH - CHANGED.'.

**03.02.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - T/B 90 WATER LOGGED SHORTING OUT TERMINALS.'.

**07.03.1994** Service defect: 'FA - TRACTION MOTOR BRUSHES - TM #5 BRUSH PIGTAIL SHORTING OUT.'.

**23.03.1994** Service defect: 'A - GAUGES - OIL PRESSURE GUAGE FITTED TO AIR COMPRESSOR.'.

**23.03.1994** Service defect: 'A - PILOT LIGHTS - THROTTLE INDICATOR LIGHT NOT WORKING - WIRING AND HOLDER REPLACED.'.

**02.05.1994** Service defect: 'TW - ADJUST BRAKES - BRAKE BLOCKS CHANGED AND ADJUSTED.'.

**02.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED #2 RHS WATER LOGGED.'.

**29.05.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - SANDERS NOT WORKING - BLOCKING DIODE CR43D BURNT OUT.'.

**29.05.1994** Service defect: 'B - ENGINE OIL - ENGINE OIL CHANGED - HIGH SILICON IN OIL.'.

**29.05.1994** Service defect: 'B - FUEL TANK - FUEL TANK OVERRIDE VALVE LEAKING - CHANGED.'.

**29.05.1994** Service defect: 'B - WHEELSLIP - WHEELSLIP NOT DROPPING OFF POWER - WIRE FOUND CONNECTED TO WRONG TERMINAL.'.

**05.08.1994** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR OIL PUMP RELIEF VALVE STICKY - REPAIRED.'.

**05.08.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**12.09.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE CHANGED.'.

**28.09.1994** Service defect: 'TW - FUEL SYSTEM - FUEL SYSTEM CHECKED FOR LEAKS - NOTHING FOUND.'.

**28.11.1994** Service defect: 'C - CRACKED SLEEVE IN NUMBER 4 CYLINDER RECTIFIED'.

**28.11.1994** Service defect: 'C - RINGS REPLACED'.
**16.01.1995** Service defect: 'TW - NIL'.
**31.01.1995** Service defect: 'TW - NIL'.
**24.02.1995** Service defect: 'TW - NIL'.
**16.05.1995** Service defect: 'FA - EARTH FAULT MISCELLANEOUS - EARTH FAULT FOUND TO HAVE BEEN CAUSED BY WATER LEAK THROUGH FILTER ROOM LIGHT CONDUIT INTO ELECTRICAL CABINET.'.
**07.07.1995** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - CONTROL EARTH NEGATIVE TO FRAME REMOVED.'.
**07.07.1995** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RESISTOR BANKS CLEANED ACCOUNT LOW READINGS.'.
**07.07.1995** Service defect: 'UN - MARKER LIGHTS - FOG LIGHT MODIFICATION ADDED.'.
**07.07.1995** Service defect: 'UN - TRACTION MOTOR EARTH - # 2 AND 3 TRACTION MOTORS CHANGED ACCOUNT LOW READINGS.'.
**99.99.9999** Service defect: 'SW - NIL'.

**NJ 3**

Details: locomotive 'NJ 3 P' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.2m
**Tare Weight:** 70tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $272420
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NN 6
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**BSG Code:** LEAJ

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|---|---|---|---|
| Return to Service Date: | 17.01.1996 | | |
| SW Service Mileage: | 1031562 KM | SW Service Date: | 07.10.1994 |
| A Service Mileage: | 1050777 KM | A Service Date: | 28.02.1995 |
| B Service Mileage: | 967566 KM | B Service Date: | 10.02.1994 |
| C Service Mileage: | 1018146 KM | C Service Date: | 27.07.1994 |
| US Service Mileage: | 860045 KM | A Service Date: | 19.12.1992 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**31.01.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - HIGH PRESSURE SUCTION AND DISCHARGE UNLOADER VALVES REPLACED..HP HEAD UNLOADER PISTON RING REPLACED..'.
**12.02.1991** Service defect: 'SW - OTHER BODY REPAIRS - ALUMINIUM CAB WINDOWS FITTED.'.
**12.02.1991** Service defect: 'SW - AUX GEN THREADING TO MONITOR.COUPLING LIGHTS TO FI'.
**12.02.1991** Service defect: 'SW - T.MONITOR BACKLASH FAN BEARING.R.H.S.FUEL GAUGE TO'.
**12.02.1991** Service defect: 'SW - CHANGE.LOWER TERMINAL BLOCK LOAD REG CABLES TO WA'.
**12.02.1991** Service defect: 'SW - TCH.MONITOR NO 5 T/MOTOR BEARING.'.
**26.02.1991** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - BOTH SAFETY VALVES REPLACED & GOVERNOR ADJUSTED ON COMPRESSOR.'.
**22.03.1991** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - L.H.S.NO 3 WICK REPLACED.'.
**22.03.1991** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CLEANED & LUBRICATED, TESTED & ADJUSTED.'.
**22.03.1991** Service defect: 'TW - WINDSCREEN WASHER MOD TO BE FITTED.BLOWER END COVE'.
**22.03.1991** Service defect: 'TW - R GASKETS TO BE REPLACED.'.
**03.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE REPLACED.'.
**03.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - HP UNLOADER VALVES FREED UP & CLEANED.'.
**10.04.1991** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - H/P SUCTION & DISCHARGE UNLOADER VALVES REPLACED.OIL CHANGED.OTHER UNLOADER VALVES CLEANED & INSPECTED.'.
**11.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - T/MOTOR & MAIN GEN BLOWER IMPELLER REPLACED.'.
**11.04.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - LP SUCTION & DISCHARGE VALVES CLEANED & INSPECTED.COMPRESSOROIL CHANGED.MAIN RESERVOIRS CLEANED.'.
**11.04.1991** Service defect: 'UN - VIGILANCE - VIGILANCE TIMING ADJUSTED.'.
**11.04.1991** Service defect: 'UN - WINDSREEN WASHER KIT MOD TO FIT.FUEL TANK LEAK NEA'.
**11.04.1991** Service defect: 'UN - R MAIN RES TO REPAIR.'.
**30.04.1991** Service defect: 'TW - ENGINE WATER LEAK - MODIFY WATER LINE'.
**20.08.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - WINDSCREEN WASHER KIT FITTED.'.
**20.08.1991** Service defect: 'TW - ENGINE - AUX GEN REALIGNED & BROKEN BOLT REPLACED ON MOUNTING BRACKET.'.
**20.08.1991** Service defect: 'TW - EXHAUST - EXHAUST STACKS REPLACED ACC CRACKS.'.
**20.08.1991** Service defect: 'SW - FUEL TANK LEAK NEAR MAIN RES TO REPAIR.'.
**18.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CHANGED,ACC NOT UNLOADING.'.
**02.10.1991** Service defect: 'TW - NO 5 T/M BEARINGS TO CHANGE.'.
**15.10.1991** Service defect: 'SW - BOGIE - BOGIE NOSE SUSPENSION BUSHES REPLACED.'.
**15.10.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - B.F. VARIABLE RESISTORS CHANGED.'.
**15.10.1991** Service defect: 'SW - TRACTION MOTOR SUSPENSION BEARING - NO 5 SUSPENSION BEARINGS CHANGED.'.
**22.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHANGED F/S.'.
**22.10.1991** Service defect: 'UN - ENGINE - NO 1 TEST COCK

REPLACED.'.

**15.11.1991** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - AUTO BRAKE VALVE EXHAUST HOSE PLACED TO ATMOSHERE.'.

**26.11.1991** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - B END T/M IMPELLER SHAFT & GEAR CHANGED.'.

**17.12.1991** Service defect: 'SW - BOGIE REPAIRS - ACCIDENT - SAND PIPES & VALVES REPLACED ACC DERAILMENT TCR DF45.'.

**02.01.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHANGED R/H/S.'.

**13.01.1992** Service defect: 'UN - BATTERY MAINTENANCE - DRIVERS SIDE BATTERY CHANGED'.

**14.01.1992** Service defect: 'SW - BOGIE - MODIFIED GEAR CASES FITTED A END'.

**29.01.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - BLOWN FRONT OBSERVERS SIDE HEADLIGHT - REPLACED'.

**03.02.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHANGED DRIVERS SIDE.'.

**10.02.1992** Service defect: 'C - ENGINE - F SERVICE EXTENDED C SERVICE DONE INSTEAD.'.

**26.02.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - ELECTRIC KETTLE FITTED.'.

**26.02.1992** Service defect: 'TW - FUEL SYSTEM - R/H/S FUEL TANK GUAGE REPLACED.'.

**26.02.1992** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL LEVEL GUAGE REPLACED & OIL TOPPED UP.'.

**28.03.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO 3 TO 2 & 2 TO 3 WHEEL SETS INTERCHANGED ACC PROFILES.'.

**28.03.1992** Service defect: 'UN - TRACTION MOTOR LOOSE PINION - NO 3 TRACTION MOTOR CHANGED ACC LOOSE PINION.'.

**28.04.1992** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - WEAR PLATE 'B' END COUPLER RENEWED'.

**05.06.1992** Service defect: 'TW - MECHANICAL EQUIPMENT COUPLER - B END COUPLER LIFT PIN & BLOCK REPLACED.'.

**17.06.1992** Service defect: 'TW - ENGINE GOVERNOR - GOVERNOR CHANGED.'.

**16.10.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - REPROFILED WHEELS FITTED.THIN PROFILED WHEELS IN MIDDLE.'.

**26.10.1992** Service defect: 'SW - OTHER BODY REPAIRS - LOCO REPAINTED.'.

**09.12.1992** Service defect: 'UN - TRACTION MOTOR EARTH - NO 2 T/M CHANGED ACC FIELDS TO EARTH.FAULTY O/HAUL EX ISL.'.

**19.12.1992** Service defect: 'UN - TRACTION MOTOR EARTH - INTERPOL TO EARTH.'.

**22.04.1993** Service defect: 'TW - ADJUST BRAKES - FIVE BLOCKS CHANGED BRAKES ADJUSTED.'.

**22.04.1993** Service defect: 'TW - DOORS - RHS ENGINE ROOM DOOR CATCH FILED AND HINGES TIGHTENED.'.

**22.04.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - SAFETY CONTROL ADJUSTED'.

**18.05.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED AND THREE BRAKE BLOCKS CHANGED.'.

**26.05.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED AND FOUR BLOCKS CHANGED.'.

**26.05.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - WEAR PLATE UNDER COUPLER PACKAGEING WORN - REPLACED.'.

**08.06.1993** Service defect: 'TW - ADJUST BRAKES - FOUR BRAKES CHANGED AND BRAKES ADJUSTED.'.

**08.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS BLOCKED - CLEARED'.

**07.07.1993** Service defect: 'TW - ADJUST BRAKES - FIVE BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.

**07.07.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE REPAIRED - DAMAGED BY HIGH BALLAST AT LOADING POINT AT GRANTHAM - VALVE AND PIPE REPLACED.'.

**03.08.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - WICK TRACTION MOTOR #6 LHS CHANGED OIL ALSO CHANGED.'.

**03.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**11.08.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED AND 1 BRAKE BLOCK CHANGED.'.

**11.08.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - WICK AND OIL CHANGED IH TRACTION MOTOR #6 LHS. GEARCASE TRACTION MOTOR #6 TIGHTENED.'.

**11.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - REAR DRAWGEAR AND PLATE TIGHTENED.'.

**15.08.1993** Service defect: 'C - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGE #4 REPLACED.'.

**15.08.1993** Service defect: 'C - VIGILANCE - TIMING OF VIGILANCE ADJUSTED.'.

**23.08.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED THREE BLOCKS CHANGED.'.

**23.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**13.09.1993** Service defect: 'TW - ADJUST BRAKES - 2 BRAKE BLOCKS CHANGED.'.

**13.09.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - WICK LHS #6 CHANGED.'.

**22.10.1993** Service defect: 'TW - ADJUST BRAKES - FOUR BRAKE BLOCKS CHANGED.'.

**22.10.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - NEW WICK OIL SEAL FITTED TO #6 LHS'.

**28.10.1993** Service defect: 'A - ENGINE CYLINDER HEADS - HEAD #4 CHANGED.'.

**28.10.1993** Service defect: 'A - ENGINE PROTECTION - ALARM BELL RENEWED.'.

**28.10.1993** Service defect: 'A - FUEL SYSTEM INJECTORS - INJECTORS CHANGED.'.

**28.10.1993** Service defect: 'A - SLIDING WINDOWS - SLIDING WINDOW DRIVERS SIDE REPAIRED - OUT OF SQUARE.'.

**28.10.1993** Service defect: 'A - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES REPLACED'.

**17.11.1993** Service defect: 'TW - COOLING WATER - ENGINE WATER CHANGED.'.

**17.11.1993** Service defect: 'TW - ENGINE OIL - ENGINE OIL CHANGED.'.

**10.12.1993** Service defect: 'TW - ADJUST BRAKES - REPLACE #6 LHS BLOCK &DART'.

**10.02.1994** Service defect: 'B - ENGINE CYLINDER HEADS - HEAD #3 CHANGED.'.

**10.02.1994** Service defect: 'B - TRACTION MOTOR - TRACTION MOTOR # 3 BRUSH HOLDER CHANGED -

BROKEN BRUSH ARM.'.
**10.06.1994** Service defect: 'FA - TRACTION MOTOR - TRACTION MOTOR #4 CHANGED OUT EARTH FAULT ON INTERPOL.'.
**27.07.1994** Service defect: 'C - ELECTRICAL MISC. MODULES - BCP ADJUSTED DOWN.'.
**27.07.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - BOTH HEATERS REPAIRED.'.
**27.07.1994** Service defect: 'C - ENGINE CYLINDER HEADS - HEAD #8 CHANGED. GASKETS TO HEADS 8,9,10, AND 11 CHANGED.'.
**27.07.1994** Service defect: 'C - FUEL SYSTEM INJECTORS - INJECTORS TO CYLINDERS 10 AND 11 CHANGED.'.
**12.08.1994** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - HOT PLATE CORD REPAIRED.'.
**06.02.1995** Service defect: 'TW - NIL'.
**30.03.1995** Service defect: 'TW - NIL'.
**10.05.1995** Service defect: 'TW - OTHER BODY REPAIRS - SCREEN TO REAR TRACTION MOTOR BLOWER FAN BLOCKED - REMOVED, CLEANED AND REPLACED.'.
**03.07.1995** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - # 6 LHS WICK AND OIL REPLACED'.
**03.07.1995** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.
**03.07.1995** Service defect: 'TW - MECHANICAL EQUIPMENT - # 6 TRACTION MOTOR REPLACED - LHS BEARING FLOGGING OUT'.
**99.99.9999** Service defect: 'SW - NIL'.

**NJ 4**

Details: locomotive 'NJ 4 B' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.2m
**Tare Weight:** 70tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $272420
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NN 6
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**BSG Code:** LEAJ

| | | | |
|---|---|---|---|
| Return to Service Date: | 05.01.1996 | | |
| SW Service Mileage: | 879407 KM | SW Service Date: | 27.09.1994 |
| A Service Mileage: | 891833 KM | A Service Date: | 31.01.1995 |
| B Service Mileage: | 801588 KM | B Service Date: | 10.11.1993 |
| C Service Mileage: | 747663 KM | C Service Date: | 21.06.1993 |
| D Service Mileage: | 607733 KM | D Service Date: | 09.05.1991 |
| US Service Mileage: | 900733 KM | A Service Date: | 09.05.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**22.01.1991** Service defect: 'SW - AIR BRAKE SYSTEM COMPLETE - BROKEN PIPE J1 RELAY VALVE REPAIRED..'.
**22.02.1991** Service defect: 'SW - EARTH FAULT MISCELLANEOUS - ALARM BELL REPLACED.'.
**22.02.1991** Service defect: 'SW - VIGILANCE - VIG PRESSURE SWITCH REPLACED.'.
**22.02.1991** Service defect: 'SW - ALUMINIUM WINDOWS TO FIT TO CAB.CO'.
**11.03.1991** Service defect: 'A - BOGIE - NO 4 T/M CONCERTINA SPRINGS REPLACED.'.
**11.03.1991** Service defect: 'A - COOLING SYSTEM - RADIATOR AIR SHUTTERS REPAIRED.'.
**11.03.1991** Service defect: 'A - ENGINE - BOTH BLOWER END COVER GASKETS REPLACED.'.
**11.03.1991** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CLEANED & LUBRICATED.'.
**11.03.1991** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - POWER KNOCKOUT SWITCH REPLACED.'.
**11.03.1991** Service defect: 'A - HOTPLATE TO BE REPLACED WHEN SPARE AVAILABLE.'.
**15.03.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - HOTPLATE REPLACED. CAB LIGHT REFLECTORS REFURBISHED & PERSPEX COVERS REPLACED.'.
**15.03.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - AIR COMPRESSOR,GOVERNOR & SAFETY VALVE REPLACED'.
**17.04.1991** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED,AMPOL TECOMA 100 USED.'.
**19.06.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - HIGH TENSILE BOLTS REPLACED L/H SIDE.'.
**19.06.1991** Service defect: 'TW - RIVET HOLES IN ROOF TO BE WELDED.'.
**24.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - LHS AUX GEN MOUNTING REALIGNED & SHIMMED & NEW HIGH TENSILE BOLTS FITTED.'.
**24.06.1991** Service defect: 'UN - AUX GEN MOUNTING BOLTS TO MONITOR.'.
**22.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - ALUMINIUM WINDOW FITTED TO D/S.'.
**22.07.1991** Service defect: 'UN - WINDSCREENS & CLASS SEALS TO BE REPLACED.'.
**13.08.1991** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - EXTRA VIGILANCE LIGHT FITTED.'.
**13.08.1991** Service defect: 'SW - OTHER BODY REPAIRS - WINDSCREENS AND RUBBER SEALS REPLACED WINDSCREENS WASHERS FITTED.'.
**07.01.1992** Service defect: 'C - MECHANICAL EQUIPMENT - L/H/S TOP AUX GEN MOUNTING BOLT REPLACED.'.
**28.01.1992** Service defect: 'TW - GENERAL - ONE BRAKE BLOCK RENEWED'.
**11.02.1992** Service defect: 'TW - EXHAUST - STRIPPED EXHAUST BOLT HOLES REPAIRED.'.
**11.02.1992** Service defect: 'TW - GENERAL - ELECTRIC KETTLE FITTED.'.
**12.03.1992** Service defect: 'UN - AUXILLARY MACHINES - AUX GENERATOR CHANGED ACC COLLAPSED BEARING.'.
**12.03.1992** Service defect: 'UN - GENERAL - ELECT CUBICLE

DOOR LATCHES & SEALS REPLACED.'.

**12.03.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - A END T/M BLOWER IMPELLER CHANGED ACC AUX GEN BEARING FAULT.'.

**25.03.1992** Service defect: 'SW - OTHER BODY REPAIRS - F/S CAB DOOR SEAL & RETAINER STRIP REPLACED.'.

**11.04.1992** Service defect: 'SW - MECH. EQUIPMENT RADIATOR FAN GEARBOX - T/M FAN GEAR BOX REPAIRED.LARGE GEAR LOCTITED TO SHAFT.'.

**29.04.1992** Service defect: 'CA - BATTERY MAINTENANCE - FOUR BATTERIES CHANGED , FLAT WOULD NOT RECHARGE'.

**29.04.1992** Service defect: 'CA - EARTH FAULT MISCELLANEOUS - VOLTAGE REGULATOR CHANGED.'.

**29.06.1992** Service defect: 'TW - BOGIE MAINTENANCE - SPRINGS - SNUBBERS FITTED TO BOGIES.'.

**14.07.1992** Service defect: 'UN - ALTERNATOR - AUX GEN CHANGED ACC NOISY BEARING ENG END GEN EX NJ 1 FITTED'.

**03.08.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN SHAFT BEARINGS REPLACED.SPACER FITTED TO SHAFT TOP. BLOWER SHAFT & BEARINGS REPLACED SPEED INCREASER GEARBOX.'.

**03.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - SPEED INCREASER GEAR BOX MAIN DRIVE GEAR & SHAFT REPLACED.'.

**09.09.1992** Service defect: 'TW - COOLING SYSTEM - ENGINE WATER FLUSHED & CHANGED.'.

**26.10.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - REPROFILED WHEELS FITTED.'.

**26.10.1992** Service defect: 'SW - OTHER BODY REPAIRS - LOCO REPAINTED.'.

**04.11.1992** Service defect: 'SW - OTHER BODY REPAIRS - ENGINE ROOM & CAB DOOR SEALS REPLACED.'.

**08.12.1992** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - NO 6 SUSPENSION BEARINGS CHANGED ACC FAULTY WICK.'.

**30.12.1992** Service defect: 'TW - VIGILANCE - AUTO BRAKE VALVE CHANGED WOULDN'T PASS BRAKE PIPE LEAKAGE TEST - TESTED OKAY.'.

**27.04.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - TEMPERATURE GAUGE READING HIGH.NEW GAUGE ORDERED.'.

**06.05.1993** Service defect: 'TW - DOORS - ENGINE ROOM DOOR OPENING - CATCH FILED'.

**06.05.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES BLOCKED - CLEARED'.

**18.05.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED AND THREE BRAKE BLOCKS CHANGED.'.

**18.05.1993** Service defect: 'TW - HOT PLATES - THREE PIN PLUG HAD MELT DOWN - PLUG RENEWED.'.

**18.05.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES BLOCKED - CLEANED OUT.'.

**18.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE BROKEN - REPLACED.'.

**24.05.1993** Service defect: 'TW - COOLING SYSTEM - WATER LEAK TOP OF ENGINE - REPAIRED'.

**24.05.1993** Service defect: 'TW - ENGINE - TOP DECK SEALS LEAKING - REPLACED'.

**24.05.1993** Service defect: 'TW - GAUGES - WATER TEMPERATURE GAUGE READING 15 DEGREES CENTIGRADE HIGH - REPLACED.'.

**21.06.1993** Service defect: 'C - DOORS - ENGINE ROOM DOOR OBSERVERS SIDE KEEPS OPENENING - CATCH REMOVED AND REPAIRED.'.

**21.06.1993** Service defect: 'C - GENERAL - MOP HEAD REPLACED. NEW HAND CLEANER BOTTLE FITTED.'.

**21.06.1993** Service defect: 'C - ISOLATING SWITCHES - ISOLATING SWITCH FAULTY - REPLACED.'.

**21.06.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDER VALVES BLOCKED - CLEARED.'.

**21.06.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN PIPE FROM DOUBLE CHECK VALVE TO DEAD ENGINE DEVICE - PIPE RENEWED.'.

**21.06.1993** Service defect: 'C - OVERHEATING - RADIATORS PARTIALLY BLOCKED - BLOWN OUT.'.

**21.06.1993** Service defect: 'C - SLIDING WINDOWS - BLIND OUT OF TRACK - REPAIRED.'.

**21.06.1993** Service defect: 'C - VIGILANCE - VIGILANCE WHISTLE NOT WHISTLING - RAG REMOVED FROM WHISTLE - TESTED OKAY'.

**11.07.1993** Service defect: 'UN - ENGINE OIL - OIL CHANGED.'.

**11.07.1993** Service defect: 'UN - FUEL SYSTEM - FUEL RACKS ADJUSTED.'.

**11.07.1993** Service defect: 'UN - FUEL SYSTEM INJECTORS - FUEL DILUTION IN OIL - INJECTORS CHANGED.'.

**11.07.1993** Service defect: 'UN - VALVE BRIDGE/LASH ADJUSTER - VALVE BRIDGES FAULTY - CHANGED.'.

**27.07.1993** Service defect: 'TW - ADJUST BRAKES - THREE BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.

**27.07.1993** Service defect: 'TW - OTHER BODY REPAIRS - MIRROR BRACKET BROKEN AWAY FROM BODY - WELDED ON.'.

**13.08.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED TWO BRAKE BLOCKS CHANGED.'.

**13.08.1993** Service defect: 'TW - AUXILLARY MACHINES - CYGNUS BOLT REPLACED IN AUX.GEN'.

**13.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**20.08.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED AND TWO BLOCKS CHANGED.'.

**20.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**25.08.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - HEAD #7 CHANGED.'.

**08.10.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - FRONT LHS SANDBOX REPAIRED.'.

**08.10.1993** Service defect: 'TW - OTHER BODY REPAIRS - FRONT WINDSCREEN REPLACED DUE TO CRACKING.'.

**29.10.1993** Service defect: 'TW - ADJUST BRAKES - 4 BRAKE BLOCKS CHANGED.'.

**03.11.1993** Service defect: 'TW - ADJUST BRAKES - ONE BRAKE BLOCK CHANGED.'.

**17.11.1993** Service defect: 'TW - CONTACTOR MISCELLANEOUS - P1 ARC SHUTE REPLACED - BLOW OUT COIL BURNT OUT.'.

**10.12.1993** Service defect: 'TW - AIR BRAKE SYSTEM COMPLETE - LUBE AUTO BRAKE VALVE'.

**10.12.1993** Service defect: 'TW - COOLING WATER - RADIATORS BLOWN OUT'.

**17.12.1993** Service defect: 'TW - CONTACTOR MISCELLANEOUS - BTR STICKY - LUBRICATED'.

**22.02.1994** Service defect: 'A - ELECTRICAL MISC. TRANSITION - TRANSITION SEQUENCE TESTED WITH MOTOR GEN SET.'.
**05.04.1994** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - REAR HEADLIGHT CHANGED.'.
**03.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVES CLEARED.'.
**07.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**18.05.1994** Service defect: 'TW - COMMUNICATIONS GENERAL - DRIVERS RADIO HAND PIECE REPLACED.'.
**18.05.1994** Service defect: 'TW - ELECTRICAL MISCELLANEOUS BURNT WIRING - HEATER WIRING REPAIRED.'.
**18.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**18.05.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - VIGILANCE REPAIRED.'.
**05.07.1994** Service defect: 'A - ELECTRICAL GENERAL - HEATER D/S REPAIRED.'.
**05.07.1994** Service defect: 'A - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRING TO TRACTION MOTOR 6 REPAIRED.'.
**05.07.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVE ON INTERCOOLER BLOWING OFF - CHANGED.'.
**29.07.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - THREE SANDER BOXES REPAIRED - ALL VALVES CLEARED.'.
**02.12.1994** Service defect: 'TW - NIL'.
**31.01.1995** Service defect: 'A - NIL'.
**23.02.1995** Service defect: 'TW - NIL'.
**27.02.1995** Service defect: 'UN - NIL'.
**99.99.9999** Service defect: 'SW - NIL'.

**NJ 5**

Details: locomotive 'NJ 5 K' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.2m
**Tare Weight:** 70tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $272420
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NN 6
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**BSG Code:** LEAJ

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 18.09.1995 | | |
| Last Lift: | 06.09.1993 | | |
| SW Service Mileage: | 44500 KM | SW Service Date: | 12.02.1994 |
| A Service Mileage: | 87025 KM | A Service Date: | 15.07.1994 |
| B Service Mileage: | 523604 KM | B Service Date: | 04.02.1992 |
| C Service Mileage: | 118455 KM | C Service Date: | 23.02.1995 |
| D Service Mileage: | 622110 KM | D Service Date: | 26.03.1993 |
| F Service Mileage: | 642679 KM | A Service Date: | 06.09.1993 |
| US Service Mileage: | 140111 KM | A Service Date: | 18.09.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
**04.03.1991** Service defect: 'TW - AIR CONDITIONING - AIRCONDITIONER DRIER REPLACED & REGASSED.'.
**04.03.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO UNIT REPLACED.'.
**04.03.1991** Service defect: 'TW - VIGILANCE - VIGILANCE PRESSURE SWITCH REPLACED & RETIMED.'.
**04.03.1991** Service defect: 'TW - COMPRESSOR GOVERNOR TO BE CLEANED & LUBRICATED.'.
**05.03.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CLEANED & LUBRICATED.'.
**22.03.1991** Service defect: 'A - BOGIE MAINTENANCE - WICKS - L.H.S.NO 5 WICK REPLACED.'.
**22.03.1991** Service defect: 'A - ENGINE - BLOWER COVER END GASKETS REPLACED.TOP DECK COVER SEALS REPLACED.'.
**22.03.1991** Service defect: 'A - MECHANICAL EQUIPMENT - FAN SHUTTERS REPAIRED.'.
**22.03.1991** Service defect: 'A - VIGILANCE - VIGILANCE PRESSURE SWITCH REPLACED.'.
**22.03.1991** Service defect: 'A - NO 6 R.H.S.SAND BOX & VALVE TO REPAIR.GR RELAY TO'.
**22.03.1991** Service defect: 'A - MONITOR & REPLACE IF REQUIRED.'.
**04.04.1991** Service defect: 'SW - VIGILANCE TO BE REPAIRED WHEN SPARES AVAILABLE.'.
**16.04.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED.'.
**16.04.1991** Service defect: 'SW - VIGILANCE - VIGILANCE CONTROL & 3 WAY SOLENOID VALVES OVERHAULED.TIMING TESTED &ADJUSTED.'.
**23.04.1991** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - REPLACE HEAT EXCHANGER CHANGE OIL & FILTERS CLEAN STRAINERS FLUSH COOLING SYSTEM'.
**21.06.1991** Service defect: 'TW - CRACKED FLOOR BEHIND COMPRESSOR TO WELD.'.
**14.08.1991** Service defect: 'SW - ELECTRICAL MAINTENANCE -WIRING - EXTRA VIGILANCE LIGHT FITTED.'.
**14.08.1991** Service defect: 'SW - OTHER BODY REPAIRS - ALUMINIUM WINDOWS FITTED TO CAB. WINDSCREEN WASHERS FITTED.'.
**11.09.1991** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - NO 6 D/S WICK REPLACED & OIL CHANGED.'.
**19.09.1991** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - INDEPENDANT BRAKE VALVE CHANGED.'.
**17.10.1991** Service defect: 'A - BOGIE - NO 4 T/M CONCERTINA BELLOWS CHANGED.'.

**25.10.1991** Service defect: 'SW - ENGINE - ENGINE FLUSHED & RADIATOR WATER CHANGED.'.
**25.10.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COUPLER - B END PACKAGE UNIT REPLACED.'.
**06.11.1991** Service defect: 'SW - ENGINE WATER LEAK - CHECKED FOR WATER LEAK.ENGINE WATER CHANGED.'.
**19.11.1991** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - LHS NO 3 WICK REPLACED.'.
**10.01.1992** Service defect: 'SW - ENGINE - ALL CYLINDERS COMPRESSION TESTED.'.
**10.01.1992** Service defect: 'SW - GENERAL - SEALS REPAIRED ON CUBICLE & ENGINE ROOM DOORS.'.
**14.01.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE BETWEEN VOLUME RESERVOIR AND DOUBLE CHECK VALVE RENEWED'.
**15.01.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - ADJUSTING LINKS ADJUSTED'.
**22.01.1992** Service defect: 'TW - BATTERY MAINTENANCE - BATTERY CHANGED F/S ACC CELL U/S.'.
**23.01.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LEAKING AUTO BRAKE PIPES (FOUR) REPAIRED'.
**28.02.1992** Service defect: 'SW - AIR CONDITIONING - MOISTURE VACUATED,DRIERS REPLACED & UNIT REGASSED.'.
**03.03.1992** Service defect: 'TW - GENERAL - ELECTRIC KETTLE FITTED.'.
**21.03.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL INTERCHANGE NO 6 & 5 SETS SWAPPED POSITIONS ACC THIN FLANGES.'.
**22.04.1992** Service defect: 'A - MECHANICAL MAINTENANCE - SOUND WARNING - VALVE STRIPPED CLEANED RE-ASSEMBLED AND TESTED'.
**05.06.1992** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - DUST SEAL REPLACED NO 3 AXLE.'.
**05.06.1992** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - L/H/S NO 5 WICK & OIL CHANGED.'.
**03.07.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - BOGIES & WHEELS CHANGED ACC THIN & DEEP FLANGES.'.
**08.07.1992** Service defect: 'UN - TRACTION MOTOR EARTH - NO 2 T/MOTOR CHANGED ACC INTERPOLE TO EARTH.FIRST TRIP EX OVERHAUL ISLINGTON.'.
**11.09.1992** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - ALL UNLOADER VALVES SERVICED.'.
**17.11.1992** Service defect: 'SW - AUXILLARY MACHINES - AUX GEN CHANGED ACC EXCESS PLAY IN BEARINGS.'.
**25.11.1992** Service defect: 'UN - BATTERY MAINTENANCE - 1 R/H/S BATTERY CHANGED,ACC CELL U/S.'.
**14.04.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY VALVE ON AIR COMPRESSOR ADJUSTED'.
**07.05.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED'.
**07.05.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDING VALVES BLOCKED - CLEARED'.
**07.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - FOUR BRAKE BLOCKS CHANGED'.
**18.05.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - LOAD METER READING HIGH - DRY JOINT ON LOAD METER SHUNT.'.
**18.05.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPLACED AIR NOZZLE REPLACED.'.
**24.05.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED ONE BLOCK CHANGED.'.
**24.05.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - ONE WICK REPLACED - OIL DARK - OIL REPLACED'.
**24.05.1993** Service defect: 'TW - EMERGENCY VALVE - MAIN RES SAFETY VALVE BLOWING (BY HEAD) - CHANGED.'.
**24.05.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED'.
**23.06.1993** Service defect: 'UN - ENGINE LINER - ENGINE LINER BIG ENDS ETCETERA FLOGGED OUT.'.
**06.09.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED.'.
**06.09.1993** Service defect: 'TW - FUEL SYSTEM PUMP - FUEL PUMPS ADJUSTED.'.
**06.09.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**06.09.1993** Service defect: 'TW - TRACTION MOTOR BRUSHES - NINE BRUSHES CHANGED.'.
**21.09.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE VALVE CHANGED.'.
**21.09.1993** Service defect: 'TW - RADIO REPAIR - DRIVERS SIDE HAND PIECE REPLACED.'.
**07.10.1993** Service defect: 'TW - 3/5 WAY VALVE - INDEPENDANT RELEASE PIPE REPLACED.'.
**03.11.1993** Service defect: 'TW - ADJUST BRAKES - THREE BRAKE BLOCKS CHANGED.'.
**10.11.1993** Service defect: 'TW - ENGINE OIL - OIL CHANGED.'.
**07.12.1993** Service defect: 'TW - AIR CONDITIONING PANEL - NOT WORKING - FUSE CONNECTIONS CLEANED - TESTED OK'.
**12.02.1994** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - BOTH BOGIES CHANGED DUE TO WHEEL CONDITION - X NJ 1 U'.
**28.02.1994** Service defect: 'CA - ELECTRICAL MISC. AC/DC RELAYS - FCR RELAY REPLACED AND RESISTORS ADJUSTED.'.
**24.03.1994** Service defect: 'TW - ADJUST BRAKES - FOUR BRAKE BLOCKS CHANGED.'.
**24.03.1994** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - WICK LHS #6 CHANGED.'.
**24.03.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**03.05.1994** Service defect: 'TW - ADJUST BRAKES - BRAKE BLOCKS CHANGED AND ADJUSTED.'.
**03.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**02.06.1994** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - LHS # 6 WICK OIL BLACK - OIL CHANGED AND WICK CLEANED.'.
**10.06.1994** Service defect: 'FA - TRACTION MOTOR - TRACTION MOTOR #2 CHANGED OUT INTERMITTANT EARTH ON INTERPOL'.
**16.06.1994** Service defect: 'TW - THE SPEEDO HAS BEEN CHANGED AT 47290 M/S'.
**28.07.1994** Service defect: 'TW - MECHANICAL EQUIPMENT - WEAR PLATES UNDER DRAW BAR REPLACED.'.
**28.07.1994** Service defect: 'TW - MECHANICAL EQUIPMENT

SANDING GEAR - SANDERS CLEARED AND BRACKET RE-WELDED.'.

**07.10.1994** Service defect: 'UN - BOGIE MAINTENANCE - BOLSTERS - BOGIE SAFETY HANGERS REPAIRED. FRONT BOGIE.'.

**07.10.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER GEAR ON FRONT BOGIE REPAIRED.'.

**07.10.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - SAFETY HANGER BRAKE SPREADER REPAIRED.'.

**26.10.1994** Service defect: 'UN - FUEL SYSTEM INJECTORS - ALL INJECTORS CHANGED.'.

**02.12.1994** Service defect: 'TW - NIL'.

**02.02.1995** Service defect: 'TW - NIL'.

**23.02.1995** Service defect: 'C - NIL'.

**30.03.1995** Service defect: 'TW - NIL'.

**09.05.1995** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - RHS HEATER NOT WORKING CORRECTLY - REPAIRED.'.

**09.05.1995** Service defect: 'TW - ENGINE GOVERNOR MECHANICAL - ENGINE HUNTING ERRATICALLY - ENGINE GOVERNOR CHANGED.'.

**99.99.9999** Service defect: 'SW - NIL'.

### NJ 6

Details: locomotive 'NJ 6 T' in AN 'Eyre Peninsula Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.2m
**Tare Weight:** 70tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $272420
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** NN 6
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1230kw
**BSG Code:** LEAJ

| | | | |
|---|---|---|---|
| Return to Service Date: | 05.01.1996 | | |
| Last Lift: | 23.06.1993 | | |
| SW Service Mileage: | 122295 KM | SW Service Date: | 02.11.1995 |
| A Service Mileage: | 86299 KM | A Service Date: | 27.09.1994 |
| B Service Mileage: | 61632 KM | B Service Date: | 26.05.1994 |
| C Service Mileage: | 116390 KM | C Service Date: | 23.05.1995 |
| E Service Mileage: | 825355 KM | A Service Date: | 22.10.1992 |
| F Service Mileage: | 846863 KM | A Service Date: | 23.06.1993 |
| US Service Mileage: | 119526 KM | A Service Date: | 09.08.1995 |

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**22.01.1991** Service defect: 'SW - AIR BRAKE SYSTEM COMPLETE - B.C.P.SWITCH CHANGED..INDEPENDANT BRAKE VALVE CLEANED & NEW ,O, RINGS FITTED..'.

**07.03.1991** Service defect: 'SW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CLEANED & LUBRICATED & ADJUSTED.'.

**26.03.1991** Service defect: 'TW - COOLING SYSTEM - RADIATOR SHUTTERS REPAIRED.'.

**26.03.1991** Service defect: 'TW - ENGINE - OIL LEAK BLOWER HOUSING REPAIRED.'.

**18.04.1991** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED,CALTEX RPM 100 USED.'.

**18.04.1991** Service defect: 'C - FUEL PUMP MOTOR BRUSH SPRINGS TO REPLACE.'.

**22.04.1991** Service defect: 'UN - BOGIE REPAIRS - ACCIDENT - DD98 REPLACED 2 NO CONCERTINA'S REPAIRED BOLSTER SAFETY BRACKETS CHECK T/M LEADS REPAIRED AIRLINE TO SAND BOX'.

**24.04.1991** Service defect: 'FA - BROKEN PIPE - PIPE BETWEEN HEADER TANK AND DRAIN PIPE REPLACED WITH FLEXIBLE AIROQUIPE HOSE.'.

**01.05.1991** Service defect: 'FA - EARTH FAULT MISCELLANEOUS - NO 5 TRACTIOM MOTOR LEAD FF INSULATION BOOT LEAKING REPLACED'.

**06.05.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO 3 TRACTION MOTOR EARTH FAULT'.

**20.06.1991** Service defect: 'TW - MECHANICAL EQUIPMENT COUPLER - A END COUPLER PLATE REPLACED.'.

**30.08.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - WINDSREEN WASHERS FITTED.'.

**30.08.1991** Service defect: 'SW - OTHER BODY REPAIRS - ALUMINIUM WINDOWS FITTED TO CAB.'.

**30.08.1991** Service defect: 'SW - COUPLING LIGHTS TO FIT. REVERSER LOCKPLATE TO REPL'.

**30.08.1991** Service defect: 'SW - ACE.'.

**06.09.1991** Service defect: 'UN - ENGINE - ENGINE CONDITION CHECKED FOR F SERVICE.'.

**06.09.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - NO 12 HEAD CHANGED & RECON BRIDGE PIECES FITTED ACC LOOSE LIFTER IN BRIDGE PIECE..'.

**22.10.1991** Service defect: 'TW - AIR CONDITIONING - AIRCONDITIONER SERVICED & REGASSED.'.

**05.11.1991** Service defect: 'SW - MECHANICAL EQUIPMENT BRAKE VALVE - EXTERNAL HOSE FITTED TO AUTO BRAKE VALVE EXHAUST.'.

**12.11.1991** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - SPEED INCREASER IMPELLER KEY REPLACED & LOCTITED TO SHAFT.'.

**09.01.1992** Service defect: 'B - MECHANICAL EQUIPMENT - A END T/M BLOWER FAN SHROUD REPAIRED.'.

**16.01.1992** Service defect: 'SW - BOGIE - NUMBER ONE L.H.S. SAND BOX PIPE WELDED'.

**28.01.1992** Service defect: 'TW - GENERAL - BRAKE BLOCK (ONE)RENEWED'.

**07.02.1992** Service defect: 'TW - EXHAUST - EXHAUST BOLTS TIGHTENED.'.

**07.02.1992** Service defect: 'TW - RADIO REPAIR - RADIO TRANSIEVER REPLACED.'.

**28.02.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - T/M BLOWER IMPELLER REPLACED (O/SIZE USED)SHAFT & GEAR REPLACED,NEW BEARINGS FITTED,HOUSING MODIFIED FOR O/S FAN.'.

**28.03.1992** Service defect: 'A - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR VALVE CHANGED.'.

**14.05.1992** Service defect: 'TS - ELECTRICAL MAINTENANCE - REVERSER - F.O.R RELAY REPLACED.'.
**04.06.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - GEAR BOX FAN DRIVE SHAFT REPLACED.'.
**18.07.1992** Service defect: 'SW - TRACTION MOTOR EARTH - NO 6 T/MOTOR CHANGED ACC INTERPOLE TO EARTH.NO 2466 OUT. NO 2435 IN.'.
**04.09.1992** Service defect: 'TW - OTHER BODY REPAIRS - D/S CAB DOOR GLASS REPLACED.'.
**30.10.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - L/H/S RADIATOR CHANGED.'.
**12.07.1993** Service defect: 'FA - TRACTION MOTOR - TRACTION MOTOR #2 BURNT LEAD MOTOR REPLACED.'.
**24.07.1993** Service defect: 'CA - ELECT. MISC. - GAUGES & INSTRUMENTS - VIGILANCE PRESSURE SWITCH NOT OPENING - CHANGED'.
**03.08.1993** Service defect: 'TW - ADJUST BRAKES - ONE BRAKE BLOCK CHANGED AND BRAKES ADJUSTED'.
**03.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**17.08.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED AND TWO BRAKE BLOCKS CHANGED'.
**17.08.1993** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRICATORS REAR WHEELS CHANGED.'.
**17.08.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - WICK T/M 1 RHS CHANGED.'.
**17.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**23.08.1993** Service defect: 'UN - ENGINE WATER LEAK - HEAD #8 CHANGED -CRACKED.'.
**25.08.1993** Service defect: 'FA - GENERAL SHUTDOWN - NO FAULT FOUND - LOCOMOTIVE WORKED OUT NEXT TRIP.'.
**30.08.1993** Service defect: 'CA - LUBRICATING SYSTEM LOW OIL PRESSURE - OIL PRESSURE RELIEF VALVE FAULTY - POOR SEAT - REPAIRED.'.
**30.08.1993** Service defect: 'CA - MAIN GENERATOR - NEGATIVE BUSBAR INSULATION BURNT - RE-INSULATED.'.
**31.08.1993** Service defect: 'TW - ADJUST BRAKES - BRAKES ADJUSTED ONE BLOCK CHANGED'.
**31.08.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - WICK RHS #1 CHANGED.'.
**21.01.1994** Service defect: 'FA - TRACTION MOTOR EARTH - TRACTION MOTORS # 5 & 6 INTERPOL EARTH FAULTS.'.
**18.02.1994** Service defect: 'FA - MAIN GENERATOR FLASHOVER - FLASH OVER ON MAIN GENERATOR CLEANED.'.
**18.02.1994** Service defect: 'FA - TRACTION MOTOR EARTH - TRACTION MOTORS 5 & 6 INTERPOLS TO EARTH.'.
**01.03.1994** Service defect: 'UN - VIGILANCE - PRESSURE SWITCH STICKY - CHANGED.'.
**28.03.1994** Service defect: 'TW - REFRIG & AIR CON GAUGES - REFRIDGERANT LEVEL LOWERED.'.
**06.04.1994** Service defect: 'TW - ADJUST BRAKES - SEVEN BRAKE BLOCKS CHANGED.'.
**05.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**05.05.1994** Service defect: 'TW - PILOT LIGHTS - VIGILANCE GAUGE LIGHT REPAIRED.'.
**07.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**07.05.1994** Service defect: 'TW - TRACTION MOTOR BRUSHES - TRACTION MOTOR BRUSHES CHANGED.'.
**26.05.1994** Service defect: 'B - EARTH FAULT MISCELLANEOUS - EARTH FAULT IN HEATERS REPAIRED.'.
**26.05.1994** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED - OVERCHARGING.'.
**26.05.1994** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - REAR WEAR PLATE UNDER KNUCKLE CHANGED.'.
**14.06.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDERS CLEARED.'.
**28.06.1994** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED - OVERVOLTAGE 91V.'.
**28.06.1994** Service defect: 'TW - PILOT LIGHTS - SPEED RECORDER LIGHT VOLTAGE ADJUSTED DOWN. VIGILANCE LIGHT REPAIRED.'.
**25.08.1994** Service defect: 'TW - MAIN GENERATOR FLASHOVER - FLASH DAMAGE CLEANED - NOT LOGGED IN BOOK.'.
**27.09.1994** Service defect: 'A - MAIN GENERATOR FLASHOVER - FLASH OVER CLEANED ON MAIN GEN.'.
**12.01.1995** Service defect: 'UN - OVERHEATED AND RECTIFIED'.
**16.01.1995** Service defect: 'UN - NIL'.
**01.02.1995** Service defect: 'TW - NIL'.
**03.03.1995** Service defect: 'UN - NIL'.
**21.03.1995** Service defect: 'TW - NIL'.
**20.04.1995** Service defect: 'TW - MAIN GENERATOR FLASHOVER - M/GEN FLASH DAMAGE - REDRESSED.'.
**20.04.1995** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - SAFETY BLOWING - PRESSURE ADJUSTED.'.
**23.05.1995** Service defect: 'C - NIL'.
**21.09.1995** Service defect: 'FA - MAIN GENERATOR FLASHOVER - FLASH OVER DAMAGE REPAIRED AND COMMUTATOR RE GROUND.'.
**99.99.9999** Service defect: 'SW - NIL'.

## 2.37 Locomotive classification starting with 'NR'

**NR 1**

Details: locomotive 'NR 1 N' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 2**

Details: locomotive 'NR 2 W' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 3**

Details: locomotive 'NR 3 X' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 4**

Details: locomotive 'NR 4 R' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 5**

Details: locomotive 'NR 5 D' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 6**

Details: locomotive 'NR 6 M' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 7**

Details: locomotive 'NR 7 V' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 8**

Details: locomotive 'NR 8 H' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 9**

Details: locomotive 'NR 9 Q' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard

**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 10**

Details: locomotive 'NR 10 M' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 11**

Details: locomotive 'NR 11 V' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 12**

Details: locomotive 'NR 12 H' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 13**

Details: locomotive 'NR 13 Q' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 14**

Details: locomotive 'NR 14 C' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 15**

Details: locomotive 'NR 15 L' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 16**

Details: locomotive 'NR 16 U' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 17**

Details: locomotive 'NR 17 G' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 18**

Details: locomotive 'NR 18 P' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 19**

Details: locomotive 'NR 19 B' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 20**

Details: locomotive 'NR 20 U' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 21**

Details: locomotive 'NR 21 G' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 22**

Details: locomotive 'NR 22 P' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 23**

Details: locomotive 'NR 23 B' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 24**

Details: locomotive 'NR 24 K' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard

**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 25**

Details: locomotive 'NR 25 T' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 26**

Details: locomotive 'NR 26 F' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 27**

Details: locomotive 'NR 27 Y' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 28**

Details: locomotive 'NR 28 A' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 29**

Details: locomotive 'NR 29 J' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 30**

Details: locomotive 'NR 30 F' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 31**

Details: locomotive 'NR 31 Y' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 32**

Details: locomotive 'NR 32 A' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 33**

Details: locomotive 'NR 33 J' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 34**

Details: locomotive 'NR 34 S' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 35**

Details: locomotive 'NR 35 E' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 36**

Details: locomotive 'NR 36 N' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 37**

Details: locomotive 'NR 37 W' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 38**

Details: locomotive 'NR 38 X' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 39**

Details: locomotive 'NR 39 R' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard

**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 40**

Details: locomotive 'NR 40 N' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 41**

Details: locomotive 'NR 41 W' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 42**

Details: locomotive 'NR 42 X' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 43**

Details: locomotive 'NR 43 R' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 44**

Details: locomotive 'NR 44 D' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 45**

Details: locomotive 'NR 45 M' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 46**

Details: locomotive 'NR 46 V' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 47**

Details: locomotive 'NR 47 H' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 48**

Details: locomotive 'NR 48 Q' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 49**

Details: locomotive 'NR 49 C' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 50**

Details: locomotive 'NR 50 V' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 51**

Details: locomotive 'NR 51 H' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 52**

Details: locomotive 'NR 52 Q' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 53**

Details: locomotive 'NR 53 C' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 54**

Details: locomotive 'NR 54 L' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard

**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 55**

Details: locomotive 'NR 55 U' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 56**

Details: locomotive 'NR 56 G' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 57**

Details: locomotive 'NR 57 P' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 58**

Details: locomotive 'NR 58 B' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 59**

Details: locomotive 'NR 59 K' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 60**

Details: locomotive 'NR 60 G' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 61**

Details: locomotive 'NR 61 P' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 62**

Details: locomotive 'NR 62 B' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 63**

Details: locomotive 'NR 63 K' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 64**

Details: locomotive 'NR 64 T' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 65**

Details: locomotive 'NR 65 F' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 66**

Details: locomotive 'NR 66 Y' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 67**

Details: locomotive 'NR 67 A' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 68**

Details: locomotive 'NR 68 J' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 69**

Details: locomotive 'NR 69 S' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard

**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 70**

Details: locomotive 'NR 70 Y' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 71**

Details: locomotive 'NR 71 A' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 72**

Details: locomotive 'NR 72 J' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 73**

Details: locomotive 'NR 73 S' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 74**

Details: locomotive 'NR 74 E' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 75**

Details: locomotive 'NR 75 N' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 76**

Details: locomotive 'NR 76 W' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 77**

Details: locomotive 'NR 77 X' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 78**

Details: locomotive 'NR 78 R' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 79**

Details: locomotive 'NR 79 D' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 80**

Details: locomotive 'NR 80 W' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 81**

Details: locomotive 'NR 81 X' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 82**

Details: locomotive 'NR 82 R' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 83**

Details: locomotive 'NR 83 D' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 84**

Details: locomotive 'NR 84 M' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard

**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 85**

Details: locomotive 'NR 85 V' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 86**

Details: locomotive 'NR 86 H' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 87**

Details: locomotive 'NR 87 Q' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 88**

Details: locomotive 'NR 88 C' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 89**

Details: locomotive 'NR 89 L' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 90**

Details: locomotive 'NR 90 H' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 91**

Details: locomotive 'NR 91 Q' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 92**

Details: locomotive 'NR 92 C' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 93**

Details: locomotive 'NR 93 L' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 94**

Details: locomotive 'NR 94 U' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 95**

Details: locomotive 'NR 95 G' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 96**

Details: locomotive 'NR 96 P' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 97**

Details: locomotive 'NR 97 B' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 98**

Details: locomotive 'NR 98 K' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 99**

Details: locomotive 'NR 99 T' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard

**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 100**

Details: locomotive 'NR 100 L' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 101**

Details: locomotive 'NR 101 U' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 102**

Details: locomotive 'NR 102 G' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 103**

Details: locomotive 'NR 103 P' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 104**

Details: locomotive 'NR 104 B' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 105**

Details: locomotive 'NR 105 K' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 106**

Details: locomotive 'NR 106 T' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 107**

Details: locomotive 'NR 107 F' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 108**

Details: locomotive 'NR 108 Y' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 109**

Details: locomotive 'NR 109 A' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 110**

Details: locomotive 'NR 110 T' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 111**

Details: locomotive 'NR 111 F' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 112**

Details: locomotive 'NR 112 Y' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 113**

Details: locomotive 'NR 113 A' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 114**

Details: locomotive 'NR 114 J' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard

**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 115**

Details: locomotive 'NR 115 S' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 116**

Details: locomotive 'NR 116 E' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 117**

Details: locomotive 'NR 117 N' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 118**

Details: locomotive 'NR 118 W' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 119**

Details: locomotive 'NR 119 X' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

**NR 120**

Details: locomotive 'NR 120 E' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 21.1m
**Tare Weight:** 132tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 20.09.1996
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 4000kw
**BSG Code:** LSAN

## 2.38 Locomotive classification starting with 'NSU'

**NSU 52**

Details: locomotive 'NSU 52 M' in AN 'Mainland Division'.

**Owner:** PRRPS
**Length Over Headstocks:** 12.8m
**Tare Weight:** 62.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** A1A-A1A
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown

**Diagram Book Page No.:** NN 4
**Date Built:** 01.01.1955
**Operating System:** SRPS
**Intended Use:** MAINLINE
**Installed Power:** 1045kw
**BSG Code:** LMSO

**NSU 58**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

## 2.39 Locomotive classification starting with 'NT'

**NT 67**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**NT 69**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**NT 73**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**NT 74**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**NT 76**

Details: locomotive 'NT 76 D' in AN 'Mainland Division'.

**Owner:** PRRPS
**Operator:** D
**Length Over Headstocks:** 14.2m
**Tare Weight:** 70.1tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $248310
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** NN 4A
**Date Built:** 29.06.1968
**Operating System:** PRRPS
**Intended Use:** MAINLINE
**Installed Power:** 1045kw
**Remarks:** W/O 12.12.87;SOLD TO PRRPS 02.02.89
**BSG Code:** LMSO

| Return to Service Date: | 24.04.1987 |
|---|---|

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

## 2.40 Locomotive classification starting with 'PMR'

**PMR 720**

Details: locomotive 'PMR 720 A' in AN 'Mainland Division'.

**Owner:** STEAMTOWN
**Length Over Headstocks:** 18.5m
**Tare Weight:** 79.2tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** 0-6-0
**Date Built:** 01.07.1949
**Operating System:** SRPS
**Intended Use:** MAINLINE
**Installed Power:** 1000kw
**Remarks:** MADE BY NTH BRITISH LOCO. CO., GLASGOW
**BSG Code:** LMSO

**PMR 901**

Details: locomotive 'PMR 901 H' in AN 'Mainland Division'.

**Owner:** SRPS
**Operator:** D
**Length Over Headstocks:** 18.5m
**Tare Weight:** 79.2tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** 0-6-0
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1988
**Operating System:** SRPS
**Intended Use:** MAINLINE
**Installed Power:** 1000kw
**Remarks:** STEAM TRAIN SRPS PETERBOROUGH
**BSG Code:** LMSO

## 2.41 Locomotive classification starting with 'Q'

**Q 301**

Details: locomotive 'Q 301 B' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 27.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 302**

Details: locomotive 'Q 302 K' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 27.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 303**

Details: locomotive 'Q 303 T' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 27.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 304**

Details: locomotive 'Q 304 F' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 305**

Details: locomotive 'Q 305 Y' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 306**

Details: locomotive 'Q 306 A' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 307**

Details: locomotive 'Q 307 J' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 308**

Details: locomotive 'Q 308 S' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 309**

Details: locomotive 'Q 309 E' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 310**

Details: locomotive 'Q 310 A' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 311**

Details: locomotive 'Q 311 J' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 312**

Details: locomotive 'Q 312 S' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 313**

Details: locomotive 'Q 313 E' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S

**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 314**

Details: locomotive 'Q 314 N' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**Q 315**

Details: locomotive 'Q 315 W' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 31.7tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

## 2.42 Locomotive classification starting with 'RVI'

**RVIC 761**

Details: locomotive 'RVIC 761 A' in AN 'Mainland Division'.

**Owner:** STEAMRAIL
**Operator:** C
**Length Over Headstocks:** 22.6m
**Tare Weight:** 191tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** 4-6-4
**Date Built:** 01.01.1952
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 143kw
**Remarks:** CORRECT CLASS IS 'R'
**BSG Code:** LBVO

**RVIC 766**

Details: locomotive 'RVIC 766 W' in AN 'Mainland Division'.

**Owner:** STEAM AGE
**Operator:** D
**Length Over Headstocks:** 22.6m
**Tare Weight:** 191tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** 4-6-4
**Date Built:** 01.01.1952
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 143kw
**Remarks:** PROPER CLASS IS R
**BSG Code:** LBVO

## 2.43 Locomotive classification starting with 'RX'

**RX 207**

Details: locomotive 'RX 207 F' in AN 'Mainland Division'.

**Owner:** A.R.H.S.
**Length Over Headstocks:** 16.8m
**Tare Weight:** 89tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** 4-6-0
**Run Restriction:** Restricted to Broad Gauge only
**Date Built:** 05.12.1913
**Operating System:** ARHS
**Intended Use:** MAINLINE
**Installed Power:** 100kw
**Remarks:** A.R.H.S. STEAM LOCO.
**BSG Code:** LBSO

**RX 224**

Details: locomotive 'RX 224 R' in AN 'Mainland Division'.

**Owner:** A.R.H.S.
**Length Over Headstocks:** 16.8m
**Tare Weight:** 89tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B

**Bogie Configuration:** 4-6-0
**Run Restriction:** Restricted to Broad Gauge only
**Date Built:** 27.04.1915
**Operating System:** ARHS
**Intended Use:** MAINLINE
**Installed Power:** 100kw
**Remarks:** A.R.H.S. STEAM LOCO.
**BSG Code:** LBSO

## 2.44 Locomotive classification starting with 'S'

**S 300**

Details: locomotive 'S 300 R' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.07.1958
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Remarks:** OWNED BY 'WEST COAST RAILWAY'.
**BSG Code:** LBVO

| | |
|---|---|
| Fleet Grp Code: | AH |
| Return to Service Date: | 06.08.1987 |

**S 301**

Details: locomotive 'S 301 D' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.07.1957
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Remarks:** NAMED 'SIR THOMAS MITCHELL'
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 19.04.1989 | | |
| US Service Mileage: | 430837 KM | A Service Date: | 19.04.1989 |

**S 302**

Details: locomotive 'S 302 M' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.12.1957
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Remarks:** NAMED 'EDWARD HENTY'
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 05.03.1989 | | |
| US Service Mileage: | 283541 KM | A Service Date: | 05.03.1989 |

**S 306**

Details: locomotive 'S 306 C' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.01.1958
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Remarks:** NAMED 'JOHN BATMAN'
**BSG Code:** LBVO

**S 307**

Details: locomotive 'S 307 L' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.01.1958
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw

**Remarks:** NAMED 'JOHN PASCOE FAWKNER'
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 18.05.1990 | | |
| US Service Mileage: | 1262091 KM | A Service Date: | 18.05.1990 |

**18.05.1990** Service defect: 'UN - WHEELSLIP - BOOKED FOR WHEELSLIP.CHECKED OK.'.

**S 310**

Details: locomotive 'S 310 C' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.07.1960
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Remarks:** NAMED 'GEORGE HIGINBOTHAM'
**BSG Code:** LBVO

**S 311**

Details: locomotive 'S 311 L' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.01.1961
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Remarks:** NAMED 'SIR FERDINAND VON MUELLER'
**BSG Code:** LBVO

**S 312**

Details: locomotive 'S 312 U' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.01.1960
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Remarks:** NAMED 'PETER LALOR'
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 29.06.1988 | | |
| US Service Mileage: | 1913190 KM | A Service Date: | 29.06.1988 |

**S 313**

Details: locomotive 'S 313 G' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.07.1960
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Remarks:** NAMED 'ALFRED DEAKIN'
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 09.08.1988 | | |
| US Service Mileage: | 1505198 KM | A Service Date: | 09.08.1988 |

**S 317**

Details: locomotive 'S 317 T' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.7m
**Tare Weight:** 122tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V S-1
**Date Built:** 01.01.1961
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Remarks:** NAMED 'SIR JOHN MONASH'
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 05.02.1989 | | |
| US Service Mileage: | 1431666 KM | A Service Date: | 05.02.1989 |

**S 2101**

Details: locomotive 'S 2101 B' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 34.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**S 2102**

Details: locomotive 'S 2102 K' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 34.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**S 2103**

Details: locomotive 'S 2103 T' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 34.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**S 2104**

Details: locomotive 'S 2104 F' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 34.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**S 2105**

Details: locomotive 'S 2105 Y' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 34.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**S 2106**

Details: locomotive 'S 2106 A' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 34.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**S 2107**

Details: locomotive 'S 2107 J' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m

**Tare Weight:** 34.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**S 2108**

Details: locomotive 'S 2108 S' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 34.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

**S 2109**

Details: locomotive 'S 2109 E' in AN 'Mainland Division'.

**Owner:** CLYDE ENGI
**Operator:** D
**Length Over Headstocks:** 21.1m
**Tare Weight:** 34.2tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Date Built:** 20.12.1996
**Operating System:** WESTRAIL
**Intended Use:** MAINLINE
**Installed Power:** 1kw
**Remarks:** UNBRAKED;TR/SFER UNIT FOR MANUF.COMPL.WA
**BSG Code:** LBVO

## 2.45 Locomotive classification starting with 'ST'

**ST 30**

Details: locomotive 'ST 30 Y' in AN 'Mainland Division'.

**Owner:** NRC
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** ON HIRE FROM SILVERTON TRAMWAY
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 07.03.1997 | | |
| SW Service Mileage: | 1434310 KM | SW Service Date: | 04.12.1995 |
| A Service Mileage: | 1483542 KM | A Service Date: | 22.11.1996 |
| B Service Mileage: | 1493862 KM | B Service Date: | 27.02.1997 |
| C Service Mileage: | 1469028 KM | C Service Date: | 26.08.1996 |
| US Service Mileage: | 1494133 KM | A Service Date: | 07.03.1997 |

**ST 31**

Details: locomotive 'ST 31 A' in AN 'Mainland Division'.

**Owner:** NRC
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** ON HIRE FROM SILVERTON TRAMWAY
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 05.03.1997 | | |
| SW Service Mileage: | 1595307 KM | SW Service Date: | 25.11.1995 |
| A Service Mileage: | 1663928 KM | A Service Date: | 30.08.1996 |
| B Service Mileage: | 1617671 KM | B Service Date: | 08.05.1996 |
| C Service Mileage: | 1641969 KM | C Service Date: | 05.03.1997 |
| US Service Mileage: | 1640680 KM | A Service Date: | 24.02.1997 |

**ST 32**

Details: locomotive 'ST 32 J' in AN 'Mainland Division'.

**Owner:** NRC
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Date Built:** 01.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** ON HIRE FROM SILVERTON TRAMWAY
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| SW Service Mileage: | 445345 KM | SW Service Date: | 22.11.1995 |
| A Service Mileage: | 537567 KM | A Service Date: | 04.02.1997 |
| B Service Mileage: | 553960 KM | B Service Date: | 03.05.1996 |
| C Service Mileage: | 521116 KM | C Service Date: | 01.11.1996 |
| US Service Mileage: | 552912 KM | A Service Date: | 14.04.1997 |

**99.99.9999** Service defect: 'B - B SCHEDULED SERVICE'.

**ST 33**

Details: locomotive 'ST 33 S' in AN 'Mainland Division'.

**Owner:** NRC
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** ON HIRE FROM SILVERTON TRAMWAY
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 21.04.1997 | | |
| SW Service Mileage: | 6647 KM | SW Service Date: | 22.11.1995 |
| A Service Mileage: | 86239 KM | A Service Date: | 06.02.1997 |
| B Service Mileage: | 38052 KM | B Service Date: | 04.05.1996 |
| C Service Mileage: | 67896 KM | C Service Date: | 05.11.1996 |
| US Service Mileage: | 100343 KM | A Service Date: | 21.04.1997 |

**ST 34**

Details: locomotive 'ST 34 E' in AN 'Mainland Division'.

**Owner:** NRC
**Operator:** D
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** ON HIRE EX SILVERTON TRAMWAYS
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 28.02.1997 | | |
| SW Service Mileage: | 230853 KM | SW Service Date: | 28.02.1997 |
| A Service Mileage: | 196067 KM | A Service Date: | 24.06.1996 |
| B Service Mileage: | 219959 KM | B Service Date: | 06.11.1996 |
| US Service Mileage: | 230587 KM | A Service Date: | 21.02.1997 |

**ST 35**

Details: locomotive 'ST 35 N' in AN 'Mainland Division'.

**Owner:** NRC
**Length Over Headstocks:** 13.5m
**Tare Weight:** 71.4tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1969
**Operating System:** SRA OF NSW
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 730kw
**Remarks:** ON HIRE EX SILVERTON TRAMWAYS
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 04.03.1997 | | |
| SW Service Mileage: | 60724 KM | SW Service Date: | 04.03.1997 |
| A Service Mileage: | 33618 KM | A Service Date: | 18.07.1996 |
| B Service Mileage: | 41608 KM | B Service Date: | 29.10.1996 |
| US Service Mileage: | 38963 KM | A Service Date: | 10.10.1996 |

**ST 520**

**20.11.1995** Reclassified from locomotive 'ST 520 S' to ' locomotive 'STE 520 K'.

**ST 4421**

Details: locomotive 'ST 4421 V' in AN 'Mainland Division'.

**Owner:** SILVERTON
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1990
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**Remarks:** ON LOAN X SILVERTON
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 18.04.1997 | | |
| A Service Mileage: | 153719 KM | A Service Date: | 30.01.1997 |
| B Service Mileage: | 123263 KM | B Service Date: | 24.10.1996 |
| US Service Mileage: | 192156 KM | A Service Date: | 02.04.1997 |

**ST 4422**

Details: locomotive 'ST 4422 H' in AN 'Mainland Division'.

**Owner:** SILVERTON
**Operator:** D
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 08.07.1957
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**Remarks:** ON LOAN EX SILVERTON
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| A Service Mileage: | 643859 KM | A Service Date: | 25.10.1996 |
| B Service Mileage: | 695024 KM | B Service Date: | 22.01.1997 |
| US Service Mileage: | 712945 KM | A Service Date: | 13.03.1997 |

**15.04.1996** Repair 'VEHICLE RECLASSIFY'.
**15.04.1996** Issued at location 'Australian National' with a previous code of locomotive '4422 R'
**99.99.9999** Service defect: 'SW - SCHEDULED WORK'.

**ST 4423**

Details: locomotive 'ST 4423 Q' in AN 'Mainland Division'.

**Owner:** SILVERTON
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1990
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**Remarks:** ON LOAN X SILVERTON
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 08.04.1997 | | |
| A Service Mileage: | 457373 KM | A Service Date: | 08.11.1996 |
| B Service Mileage: | 535555 KM | B Service Date: | 11.02.1997 |
| US Service Mileage: | 521345 KM | A Service Date: | 25.01.1997 |

**ST 4424**

Details: locomotive 'ST 4424 C' in AN 'Mainland Division'.

**Owner:** SILVERTON
**Length Over Headstocks:** 17.4m
**Tare Weight:** 111.6tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1990
**Operating System:** SRA OF NSW
**Intended Use:** MAINLINE
**Installed Power:** 1600kw
**Remarks:** ON LOAN EX SILVERTON
**BSG Code:** LSSG

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 02.04.1997 | | |
| SW Service Mileage: | 124237 KM | SW Service Date: | 20.08.1996 |
| A Service Mileage: | 220941 KM | A Service Date: | 24.03.1997 |
| US Service Mileage: | 221371 KM | A Service Date: | 02.04.1997 |

## 2.46 Locomotive classification starting with 'STE'

**STE 520**

Details: locomotive 'STE 520 K' in AN 'Mainland Division'.

**Owner:** A.R.H.S.
**Length Over Headstocks:** 19.7m
**Tare Weight:** 194tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** 4-6-2
**Run Restriction:** Restricted to Broad Gauge only
**Date Built:** 10.10.1943
**Operating System:** ARHS
**Intended Use:** MAINLINE
**Installed Power:** 100kw
**Remarks:** A.R.H.S. STEAM LOCO.
**BSG Code:** LBSO

**20.11.1995** Repair 'VEHICLE RECLASSIFY'.
**20.11.1995** Issued at location 'Australian National' with a previous code of locomotive 'ST 520 S'

## 2.47 Locomotive classification starting with 'T'

**T 350**

Details: locomotive 'T 350 M' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-2
**Date Built:** 01.01.1959
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE

**Installed Power:** 708kw
**BSG Code:** LBVO

**T 351**

Details: locomotive 'T 351 V' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-2
**Date Built:** 01.01.1959
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 352**

Details: locomotive 'T 352 H' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-2
**Date Built:** 01.01.1959
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 353**

Details: locomotive 'T 353 Q' in AN 'Mainland Division'.

**Owner:** V LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-2
**Date Built:** 01.01.1959
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 358**

Details: locomotive 'T 358 P' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-3
**Date Built:** 01.01.1962
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 359**

Details: locomotive 'T 359 B' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-3
**Date Built:** 01.01.1962
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 360**

Details: locomotive 'T 360 U' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-3
**Date Built:** 01.01.1962
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 361**

Details: locomotive 'T 361 G' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-3
**Date Built:** 01.01.1962
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 362**

Details: locomotive 'T 362 P' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-3
**Date Built:** 01.01.1962
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 363**

Details: locomotive 'T 363 B' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-3
**Date Built:** 01.01.1962
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 364**

Details: locomotive 'T 364 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-3
**Date Built:** 01.01.1962
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 367**

Details: locomotive 'T 367 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 368**

Details: locomotive 'T 368 A' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 369**

Details: locomotive 'T 369 J' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 370**

Details: locomotive 'T 370 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 371**

Details: locomotive 'T 371 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 372**

Details: locomotive 'T 372 A' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 373**

Details: locomotive 'T 373 J' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 374**

Details: locomotive 'T 374 S' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 375**

Details: locomotive 'T 375 E' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE

**Installed Power:** 708kw
**BSG Code:** LBVO

**T 376**

Details: locomotive 'T 376 N' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 377**

Details: locomotive 'T 377 W' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 378**

Details: locomotive 'T 378 X' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 379**

Details: locomotive 'T 379 R' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 380**

Details: locomotive 'T 380 N' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 381**

Details: locomotive 'T 381 W' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 382**

Details: locomotive 'T 382 X' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 383**

Details: locomotive 'T 383 R' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 384**

Details: locomotive 'T 384 D' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 385**

Details: locomotive 'T 385 M' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 386**

Details: locomotive 'T 386 V' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1964
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 387**

Details: locomotive 'T 387 H' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 388**

Details: locomotive 'T 388 Q' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 389**

Details: locomotive 'T 389 C' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 390**

Details: locomotive 'T 390 V' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 391**

Details: locomotive 'T 391 H' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 392**

Details: locomotive 'T 392 Q' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 393**

Details: locomotive 'T 393 C' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 394**

Details: locomotive 'T 394 L' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE

**Installed Power:** 708kw
**BSG Code:** LBVO

**T 395**

Details: locomotive 'T 395 U' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 396**

Details: locomotive 'T 396 G' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 397**

Details: locomotive 'T 397 P' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1966
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 398**

Details: locomotive 'T 398 B' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-4
**Date Built:** 01.01.1966
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

**T 399**

Details: locomotive 'T 399 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1967
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**BSG Code:** LBVO

**T 400**

Details: locomotive 'T 400 C' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1967
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**BSG Code:** LBVO

**T 401**

**27.04.1993** Reclassified from locomotive 'T 401 L' to ' locomotive 'CK 1 L'.

**T 402**

Details: locomotive 'T 402 U' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1967
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**BSG Code:** LBVO

**T 403**

Details: locomotive 'T 403 G' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1967
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**Remarks:** 'T' CLASS VICTORIAN LOCO
**BSG Code:** LBVO

**T 404**

**27.04.1993** Reclassified from locomotive 'T 404 P' to ' locomotive 'CK 2 U'.

**T 405**

**27.04.1993** Reclassified from locomotive 'T 405 B' to ' locomotive 'CK 3 G'.

**T 406**

Details: locomotive 'T 406 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1968
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**BSG Code:** LBVO

**27.04.1993** Reclassified from locomotive 'T 406 K' to ' locomotive 'CK 4 P'.

**T 407**

**27.04.1993** Reclassified from locomotive 'T 407 T' to ' locomotive 'CK 5 B'.

**T 408**

Details: locomotive 'T 408 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1968
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**BSG Code:** LBVO

**T 409**

Details: locomotive 'T 409 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1968
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**BSG Code:** LBVO

**T 410**

Details: locomotive 'T 410 K' in AN 'Mainland Division'.

**Owner:** V/LINE

**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1968
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**BSG Code:** LBVO

**T 411**

Details: locomotive 'T 411 T' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1968
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**BSG Code:** LBVO

**T 412**

Details: locomotive 'T 412 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 13.4m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-5
**Date Built:** 01.01.1968
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 820kw
**BSG Code:** LBVO

**T 413**

Details: locomotive 'T 413 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 14.6m
**Tare Weight:** 70tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** BO-BO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V T-1
**Date Built:** 01.01.1955
**Operating System:** V/LINE
**Intended Use:** GENERAL PURPOSE
**Installed Power:** 708kw
**BSG Code:** LBVO

## 2.48 Locomotive classification starting with 'X'

**X 31**

Details: locomotive 'X 31 L' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 114tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.07.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**BSG Code:** LBVO

**X 32**

Details: locomotive 'X 32 U' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 114tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Wagon Width:** 2950mm
**Wagon Height:** 4720mm
**BSG Code:** LBVO

**X 33**

Details: locomotive 'X 33 G' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 114tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1980
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**BSG Code:** LBVO

**X 34**

Details: locomotive 'X 34 P' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 114tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Wagon Width:** 2950mm
**Wagon Height:** 4720mm
**BSG Code:** LBVO

**X 35**

Details: locomotive 'X 35 B' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 114tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**Wagon Width:** 2950mm
**Wagon Height:** 4720mm
**BSG Code:** LBVO

**X 36**

Details: locomotive 'X 36 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 114tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.07.1976
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1340kw
**BSG Code:** LBVO

| | |
|---|---|
| Fleet Grp Code: | AH |
| Return to Service Date: | 26.07.1990 |

**X 37**

Details: locomotive 'X 37 T' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**Wagon Width:** 2950mm
**Wagon Height:** 4720mm
**BSG Code:** LBVO

**X 38**

Details: locomotive 'X 38 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**Wagon Width:** 2950mm
**Wagon Height:** 4720mm
**BSG Code:** LBVO

**X 39**

Details: locomotive 'X 39 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** S
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**Wagon Width:** 2950mm
**Wagon Height:** 4720mm
**BSG Code:** LBVO

**X 40**

Details: locomotive 'X 40 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Standard
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**Wagon Width:** 2950mm
**Wagon Height:** 4720mm
**BSG Code:** LBVO

**X 41**

Details: locomotive 'X 41 T' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.07.1976
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

| | |
|---|---|
| Fleet Grp Code: | AH |
| Return to Service Date: | 02.07.1976 |

**X 42**

Details: locomotive 'X 42 F' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

**X 43**

Details: locomotive 'X 43 Y' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**Wagon Width:** 2950mm
**Wagon Height:** 4720mm
**BSG Code:** LBVO

**X 44**

Details: locomotive 'X 44 A' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Date Built:** 01.01.1970
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**Wagon Width:** 2950mm

**Wagon Height:** 4720mm
**BSG Code:** LBVO

**X 45**

Details: locomotive 'X 45 J' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.07.1976
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**Remarks:** NAMED 'EDGAR H.BROWNBILL'
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 26.07.1990 | | |
| US Service Mileage: | 981253 KM | A Service Date: | 26.07.1990 |

**26.07.1990** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR FAULTY,RETURNED TO V/LINE FOR REPAIRS.'.

**X 46**

Details: locomotive 'X 46 S' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.12.1975
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 15.09.1988 | | |
| US Service Mileage: | 548473 KM | A Service Date: | 15.09.1988 |

**X 47**

Details: locomotive 'X 47 E' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.01.1975
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 09.03.1990 | | |
| US Service Mileage: | 801285 KM | A Service Date: | 09.03.1990 |

**14.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - 'B'END COUPLER CHANGED A/C BEAT.'.
**14.10.1989** Service defect: 'UN - 'A'COUPLING TO REPLACE IN MELBOURNE'.
**09.03.1990** Service defect: 'UN - VIGILANCE - VIGILANCE BOOKED FAULTY.ONLY FAULT FOUND BLUE WARNING LIGHTSNOT BRIGHT ENOUGH.'.

**X 48**

Details: locomotive 'X 48 N' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.01.1975
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 07.05.1989 | | |
| US Service Mileage: | 375155 KM | A Service Date: | 07.05.1989 |

**X 49**

Details: locomotive 'X 49 W' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** V X-3
**Date Built:** 01.01.1975
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 12.04.1994 | | |
| US Service Mileage: | 849965 KM | A Service Date: | 11.08.1990 |

**11.08.1990** Service defect: 'UN - HAUL TO MELBOURNE A/C NO 12 HEAD CHANGE'.
**12.04.1994** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - WHEELS ON NO 6 WHEELS GROUND TO ALLOW LOCO TO BE TOWED TO VICTORIA.'.
**12.04.1994** Service defect: 'TS - TRACTION MOTOR - NO 3 AND NO 6 T/M'S CUT OUT AND LOCO WORKING BACK TO DYNON.'.

**X 50**

Details: locomotive 'X 50 S' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.12.1975
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 22.08.1989 | | |
| US Service Mileage: | 593500 KM | A Service Date: | 22.08.1989 |

**22.08.1989** Service defect: 'UN - GENERAL - BOOKED FOR ROUGH RIDING.CHECKED OK,RETURNED TO V/LINE FOR FURTHER INSPECTION.'.

**X 51**

Details: locomotive 'X 51 E' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.12.1975
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 24.07.1990 | | |
| US Service Mileage: | 968052 KM | A Service Date: | 24.07.1990 |

**30.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR PIPE IN NOSE REPAIRED.'.

**X 52**

Details: locomotive 'X 52 N' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.07.1976
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 24.05.1990 | | |
| US Service Mileage: | 616655 KM | A Service Date: | 24.05.1990 |

**X 53**

Details: locomotive 'X 53 W' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.01.1976
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 31.05.1990 | | |
| US Service Mileage: | 467057 KM | A Service Date: | 31.05.1990 |

**X 54**

Details: locomotive 'X 54 X' in AN 'Mainland Division'.

**Owner:** V/LINE
**Length Over Headstocks:** 17.5m
**Tare Weight:** 118tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate
**Diagram Book Page No.:** V X-3
**Date Built:** 01.01.1976
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 1490kw
**Remarks:** MUST NOT WORK OVERLAND
**BSG Code:** LBVO

| | | | |
|---|---|---|---|
| Return to Service Date: | 15.09.1989 | | |
| US Service Mileage: | 718221 KM | A Service Date: | 29.04.1989 |

**15.09.1989** Service defect: 'TS - ENGINE - ENGINE PROTECTION DEVICE TRIPPING,RETURN TO V,LINE FOR REP.'.

## 2.49 Locomotive classification starting with 'XA'

**XA 18**

**15.01.1990** Reclassified from locomotive 'XA 18 Y' to ' locomotive 'XT 18 G'.

## 2.50 Locomotive classification starting with 'XT'

**XT 4**

Details: locomotive 'XT 4 X' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 10.4m
**Tare Weight:** 59.9tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Original Cost:** $105150
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L22
**Date Built:** 20.11.1950
**Operating System:** DON RIVER RAILWAY
**Intended Use:** MAINLINE
**Installed Power:** 492kw
**Remarks:** W/O 05.03.88;SOLD 10.05.88 TO DON RIVER
**BSG Code:** LTSO

**XT 18**

Details: locomotive 'XT 18 G' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 10.4m
**Tare Weight:** 57.9tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L22
**Date Built:** 10.01.1952
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 492kw
**Remarks:** W/O 30.06.88
**BSG Code:** LTAX

**15.01.1990** Repair 'VEHICLE RECLASSIFY'.
**15.01.1990** Issued at location 'Australian National' with a previous code of locomotive 'XA 18 Y'

## 2.51 Locomotive classification starting with 'Y'

**Y 1**

Details: locomotive 'Y 1 L' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 12.7m
**Tare Weight:** 58.9tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Original Cost:** $166560
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L28
**Date Built:** 04.12.1961
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 597kw
**BSG Code:** LTAY

| | | | |
|---|---|---|---|
| Return to Service Date: | 12.06.1996 | | |
| Last Lift: | 08.07.1986 | | |
| B Service Mileage: | 853928 KM | B Service Date: | 07.08.1990 |
| F Service Mileage: | 0 KM | A Service Date: | 08.07.1986 |
| US Service Mileage: | 106302 KM | A Service Date: | 12.06.1996 |

**02.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED,BROKEN BOX REPAIRED & VALVES REPL.'.
**27.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.

**27.09.1989** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - REPL.H/LIGHT SWITCH ON F/SIDE.'.
**27.09.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**27.09.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**27.09.1989** Service defect: 'B - RADIO REPAIR - REPL. RADIO.'.
**27.09.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (8)BRUSHES REPL.'.
**17.05.1990** Service defect: 'B - COOLING SYSTEM - FAN CLUTCH REPL.'.
**17.05.1990** Service defect: 'B - ENGINE WATER LEAK - REPAIRED WATER HOSE.'.
**17.05.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (4)HOSES REPL.& (1)PIPE REPL.'.
**17.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (3)BLOCKS & ADJ.'.
**07.08.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**07.08.1990** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - REAR HEADLIGHT WIRING REPAIRED,FRONT HEADLIGHT MADE TO WORK'.
**07.08.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - INSTRUMENT PANEL LAMPS REPLACED,2 SANDING VALVES REPLACED HEATERS MADE WORKABLE'.
**07.08.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 853040KM.'.
**07.08.1990** Service defect: 'B - RADIO REPAIR - RADIO REPLACED'.
**05.07.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.
**05.07.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.
**05.07.1991** Service defect: 'UN - GENERAL - **** A SERVICE ****'.
**05.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED'.
**16.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WIPER ARM REPLACED'.
**16.07.1991** Service defect: 'UN - NO FAULT FOUND - HEATERS TESTED OK. NO FAULT FOUND'.
**22.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHARGED AND WATERED'.
**18.06.1992** Service defect: 'UN - FUEL SYSTEM - FUEL TANK REPLACED DUE TO DERAILMENT DAMAGE.'.
**13.07.1992** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES. JUMP STARTED ALLOWED TO RUN FOR SOME TIME TO CHARGE BATTERIES.'.
**17.07.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDOMETER LIGHT REPLACED. AMP METER POLARITY REVERSED.'.
**03.08.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - DAMAGED MARKER LIGHT WIRING REPAIRED BY RUNNING NEW CONDUIT AND WIRE.'.
**15.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIREMANS SIDE CAB LIGHT REPLACED.'.
**15.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**15.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER REPAIRED.'.
**29.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER AND CLOCK BROKEN. REPLACED WITH SPEEDOMETER EX Y7.'.
**05.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIREMANS SIDE CAB LIGHT REPLACED.'.
**19.09.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - OVER SPEED TRIP RESET.'.
**28.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - BROKEN BRAKE GAUGE GLASS REPAIRED.'.
**06.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - STIFF TRAIN PIPE COCKS CLEANED AND LUBRICATED.'.
**12.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MISSING BRAKE ADJUSTMENT ROD REPLACED.'.
**25.11.1992** Service defect: 'UN - NO FAULT FOUND - LOW AMPS FAULT REPORTED. NO FAULT FOUND.'.
**03.12.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - COOLING WATER LEAK IN RADIATOR COMPARTMENT REPAIRED.'.
**03.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - STIFF BRAKE PIPE COCKS REPAIRED.'.
**12.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDBOX REPAIRED.'.
**12.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - STIFF BRAKE COCK REPAIRED.'.
**13.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - STIFF BRAKE COCKS FREED UP.'.
**24.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - VANDALISED CAB WINDOW REPLACED.'.
**27.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WONT ELECTRICALLY COUPLE TO Y5. WILL NOT NEED TO BE COUPLED IN NEAR FUTURE SO ALLOWED BACK INTO SERVICE.'.
**12.05.1993** Service defect: 'TW - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**13.07.1993** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED.'.
**13.07.1993** Service defect: 'TW - OTHER BODY REPAIRS - CAB DOOR LOCK REPAIRED.'.
**28.09.1993** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT FAN CLUTCH REPLACED.'.
**28.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIELD DIVERSION FAULT REPAIRED.'.
**12.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**21.03.1994** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - REVERSE CURRENT RELAY REPLACED.'.
**21.03.1994** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**Y 2**

Details: locomotive 'Y 2 U' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 12.7m
**Tare Weight:** 58.9tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Original Cost:** $166560
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L28
**Date Built:** 22.12.1961
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 597kw
**Remarks:** VACUUM BRAKE
**BSG Code:** LTAY

| | | | |
|---|---|---|---|
| Return to Service Date: | 06.06.1991 | | |
| Last Lift: | 10.10.1984 | | |
| B Service Mileage: | 936974 KM | B Service Date: | 09.05.1991 |
| F Service Mileage: | 0 KM | A Service Date: | 10.10.1984 |
| US Service Mileage: | 936685 KM | A Service Date: | 29.01.1991 |

**03.08.1989** Service defect: 'B - COOLING SYSTEM - AIR COOLER UNBLOCKED.'.
**03.08.1989** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - REPL.35 & 80 AMP FUSES IN EXHAUSTER.'.
**03.08.1989** Service defect: 'B - ELECTRICAL MISC. JUMPER CABLES - REPL.FAULTY JUMPER.'.
**03.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)STEP LAMPS REPL.'.
**03.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REPAIRED STICKING BRUSHES IN EXHAUSTER & F/OVER IN REVERSER.'.
**03.08.1989** Service defect: 'B - EXHAUST - SMALL EXHAUST PIPE WELDED.(CRACKED)'.
**03.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - CENTRE COUPLER REPL.(MISSING)'.
**03.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (1) SAND HOSE REPL.'.
**03.08.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**03.08.1989** Service defect: 'B - RADIO REPAIR - REPL.FAULTY RADIO.'.
**03.08.1989** Service defect: 'B - TRACTION MOTOR - COVER REPL.'.
**17.11.1989** Service defect: 'B - CAM SHAFT - REPL CAM SHAFT.'.
**17.11.1989** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL CONTACTS TRUED UP.'.
**17.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**17.11.1989** Service defect: 'B - ENGINE WATER LEAK - REPAIRED WATER LEAK ON WATER RAIL.'.
**17.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (3)HOSES & (1)PIPE REPL.'.
**17.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL.& ALL BRAKES ADJ.'.
**17.11.1989** Service defect: 'B - OTHER BODY REPAIRS - REPAIRED COW CATCHER.'.
**17.11.1989** Service defect: 'B - RADIO REPAIR - REPL.HANDSET.'.
**17.11.1989** Service defect: 'B - TRACTION MOTOR - REPAIRED BRUSH BOX & (8)BLOWER MOTOR BRUSHES REPL.'.
**17.11.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**27.04.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - XSC CONTACT & PIGTAIL REPL.'.
**27.04.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**27.04.1990** Service defect: 'B - ENGINE WATER LEAK - WATER LEAKS FIXED.'.
**27.04.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (8) BLOCKS REPLACED.'.
**24.07.1990** Service defect: 'B - AUXILLARY MACHINES - 2 BLOWER MOTOR BRUSHES REPLACED,4 COMPRESSOR MOTOR BRUSHES REPLACED'.
**24.07.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - GFC2 AND GFC3 CONTACTS REPAIRED,GFC3 STICKING FREED UP CONTROLLER CONTACTS CLEANED'.
**24.07.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 5 LAMPS REPLACED,RADIO REPLACED [POWER 1.5 M.,CONTROL 1.5 M.LIGHTING 1.0 M.|'.
**24.07.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 929914KM.'.
**24.07.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 T/M BRUSHES REPLACED'.
**29.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 936685KM.'.
**29.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED'.
**29.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BLOCKS REPLACED'.
**09.05.1991** Service defect: 'B - AUXILLARY MACHINES - FUEL PUMP REPLACED,1 BLOWER MOTOR BRUSH REPLACED'.
**09.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**09.05.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - EARTH FAULT TRACED TO EXHAUSTER CUT OUT,1 LAMP REPLACED C.L.R.2.COIL REPLACED'.
**09.05.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 2 MAIN GEN.BRUSHES REPLACED'.
**09.05.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BLOCK REPLACED'.
**09.05.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 T/M BRUSHES REPLACED'.
**06.06.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED,LOCO TESTED ON LOAD TANK & TEST RUN TO ROCHERLEA O.K.'.

**Y 3**

Details: locomotive 'Y 3 G' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 12.7m
**Tare Weight:** 58.9tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Original Cost:** $167980
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L28
**Date Built:** 01.02.1962
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 597kw
**Remarks:** VACUUM BRAKE
**BSG Code:** LTAY

| | | | |
|---|---|---|---|
| Return to Service Date: | 13.06.1991 | | |
| B Service Mileage: | 902473 KM | B Service Date: | 17.05.1990 |
| C Service Mileage: | 889585 KM | C Service Date: | 07.06.1988 |
| US Service Mileage: | 918659 KM | A Service Date: | 13.06.1991 |

**31.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - NEW SET OF BATTERIES FITTED.'.
**31.10.1989** Service defect: 'UN - GENERAL - 'A'SERVICE.'.
**12.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**12.03.1990** Service defect: 'B - EXHAUST - EXHAUSTER CHANGED.'.
**12.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 09-02-90.'.
**12.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS CHANGED.'.
**12.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**17.05.1990** Service defect: 'B - AUXILLARY MACHINES - (3)AUX.GEN.BRUSHES & (6)BLOWER BRUSHES REPL.'.
**17.05.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (2)LAMPS REPL.'.
**17.05.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (4)BRUSHES REPL.'.
**17.05.1990** Service defect: 'B - TRACTION MOTOR - NO.3 BRUSH BOX REPAIRED.'.
**17.05.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**13.06.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**13.06.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - ENGINE TESTED O.K. ON LOAD TANK'.
**13.06.1991** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPAIRED'.

**Y 4**

Details: locomotive 'Y 4 P' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 12.7m
**Tare Weight:** 58.9tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Original Cost:** $181500
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L28
**Date Built:** 20.10.1964
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 597kw
**Remarks:** 'ROWALLAN'VAC. BRAKE;STORED 01.11.89
**BSG Code:** LTAY

| | | | |
|---|---|---|---|
| Return to Service Date: | 30.05.1991 | | |
| Last Lift: | 22.12.1981 | | |
| B Service Mileage: | 768322 KM | B Service Date: | 31.08.1989 |
| F Service Mileage: | 0 KM | A Service Date: | 22.12.1981 |
| US Service Mileage: | 769268 KM | A Service Date: | 30.05.1991 |

**31.08.1989** Service defect: 'B - CONTACTOR MISCELLANEOUS - STARTING CONTACTS REPL.& A.F.CONTACTS CLEANED.'.
**31.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**31.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT - AIR COOLER COCK FREED.'.
**31.08.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**30.05.1991** Service defect: 'UN - TRACTION MOTORS'.

**Y 5**

Details: locomotive 'Y 5 B' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 12.7m
**Tare Weight:** 58.9tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Original Cost:** $181500
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L28
**Date Built:** 12.11.1964
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 597kw
**Remarks:** STORED 07.08.95;'SIR CHARLES GAIRDNER'
**BSG Code:** LTAY

| | | | |
|---|---|---|---|
| Return to Service Date: | 13.06.1996 | | |
| Last Lift: | 14.03.1986 | | |
| SW Service Mileage: | 1602764 KM | SW Service Date: | 03.06.1992 |
| A Service Mileage: | 109215 KM | A Service Date: | 11.05.1994 |
| B Service Mileage: | 117790 KM | B Service Date: | 13.06.1996 |
| F Service Mileage: | 0 KM | A Service Date: | 14.03.1986 |
| US Service Mileage: | 117769 KM | A Service Date: | 07.08.1995 |

**21.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED'.
**21.09.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.& BATTEN HOLDER REPL.IN ENGINE ROOM.'.

**21.09.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**21.09.1989** Service defect: 'B - FUEL SYSTEM LINES - FUEL PIPE REPL.ON NO.4 HEAD.'.
**21.09.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (4)BRUSHES REPL.'.
**21.09.1989** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WIPERMOTOR REPL.'.
**21.09.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (2)PIPES REPL.'.
**21.09.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL.& ALL BRAKES ADJ.PIN REPL.& HOSE REPL.'.
**21.09.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK ON BRAKE CYL.REPAIRED'.
**21.09.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**21.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE'.
**13.03.1990** Service defect: 'B - CAM SHAFT - CAMS CHECKED.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - G.F.C.3 RELAY REPL.'.
**13.03.1990** Service defect: 'B - GENERAL - LOCO BOOKED OUT ON 15-02-90.SPEEDO READ 573145K/M.'.
**13.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (12)BRUSHES REPL.'.
**13.03.1990** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WIPERS REPAIRED.'.
**13.03.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (2)SAND PIPES RENEWED.'.
**13.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (7)BLOCKS REPL.& ADJ..'.
**13.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**21.09.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - NO.2 T/M HINGE CLIP SPRING BROKEN'.
**21.09.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND HOSE REPLACED'.
**21.09.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**21.02.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**21.02.1991** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK REPAIRED'.
**21.02.1991** Service defect: 'B - FUEL SYSTEM LINES - FUEL LEAK NO.6 REPAIRED'.
**21.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WIPER REPAIRED'.
**19.06.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - DRIVER ONLY AUTO BRAKE SWITCH REPAIRED.'.
**19.06.1992** Service defect: 'UN - NO FAULT FOUND - RADIO FOOT SWITCH FAULT REPORTED. NO FAULT FOUND.'.
**15.07.1992** Service defect: 'UN - RADIO REPAIR - DRIVER ONLY HANDS FREE FACILITY REMOVED FROM RADIO.'.
**04.02.1993** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - HAND BRAKE SWITCH REPLACED.'.
**04.02.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 5 GLOBES REPLACED.'.
**04.02.1993** Service defect: 'B - EXHAUST - 1 EXHAUST GASKET REPLACED.'.
**04.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED.'.
**04.02.1993** Service defect: 'B - OTHER BODY REPAIRS - FRONT COW CATCHER REPAIRED.'.
**28.04.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED THROWING CIRCUIT BREAKER. CHECKED AND NO FAULT FOUND.'.
**14.05.1993** Service defect: 'UN - COOLING SYSTEM - COOLING WATER LEAK REPAIRED.'.
**14.05.1993** Service defect: 'UN - EXHAUST - EXHAUST MANIFOLD GASKET REPLACED.'.
**14.05.1993** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - BROKEN FAN SHAFT WELDED.'.
**10.06.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**10.06.1993** Service defect: 'UN - EXHAUST - 1 EXHAUST MANIFOLD GASKET REPLACED.'.
**22.09.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - LEAKING RADIATOR ELEMENTS REPLACED.'.
**06.10.1993** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT FAN CLUTCH REPLACED.'.
**11.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

### Y 6

Details: locomotive 'Y 6 K' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 12.7m
**Tare Weight:** 58.9tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Original Cost:** $210460
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L28
**Date Built:** 18.08.1970
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 597kw
**Remarks:** VACUUM BRAKE
**BSG Code:** LTAY

| | | | |
|---|---|---|---|
| Return to Service Date: | 28.06.1991 | | |
| Last Lift: | 16.08.1985 | | |
| B Service Mileage: | 234323 KM | B Service Date: | 24.05.1991 |
| F Service Mileage: | 0 KM | A Service Date: | 16.08.1985 |
| US Service Mileage: | 234789 KM | A Service Date: | 28.06.1991 |

**27.07.1989** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK ON WATER RAIL REPAIRED.'.
**27.07.1989** Service defect: 'B - EXHAUST - (1)BELLOW RENEWED.'.
**27.07.1989** Service defect: 'B - GENERAL - (4)AIR HOSES RENEWED.'.

**27.07.1989** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - KNUCKLE RENEWED'.
**27.07.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (4)SAND PIPES RENEWED.'.
**27.07.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (3)BLOCKS REPL. & BRAKES ADJ.'.
**27.07.1989** Service defect: 'B - OTHER BODY REPAIRS - DOOR REPAIRED.'.
**18.07.1990** Service defect: 'B - AUXILLARY MACHINES - 4 EXHAUSTER MOTOR BRUSHES REPLACED,BLOWER MOTOR CLEANED'.
**18.07.1990** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - RADIO WIRING REPAIRED,ENGINE ROOM LIGHT WIRING REPAIRED'.
**18.07.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 LAMPS REPLACED,BATTERIES WATERED'.
**18.07.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 224380'.
**16.10.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**16.10.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - NEW BATTERIES FITTED'.
**16.10.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 225051KM.'.
**16.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT - EXHAUST BELLOW REPAIRED,VACUUM HOSE REPLACED,2 AIR HOSES REPLACED'.
**16.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPLACED'.
**22.01.1991** Service defect: 'B - AUXILLARY MACHINES - 2 AUX.GEN.BRUSHES REPLACED,3 EXHAUSTER BRUSHES REPLACED, 2 SETS OF COMPRESSOR BRUSHES REPLACED'.
**22.01.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - EARTH ON VIG.CLEARED,STEP LIGHT REPAIRED'.
**22.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 229746KM.'.
**22.01.1991** Service defect: 'B - LUBRICATING SYSTEM - NO.3 OIL PIPE ON HEAD REPAIRED'.
**22.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 2 DE-RAIL BARS REPAIRED,REAR HORN FITTED'.
**22.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND VALVE REPLACED'.
**22.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BLOCKS REPLACED'.
**24.05.1991** Service defect: 'B - AUXILLARY MACHINES - 3 AUX.GENERATOR BRUSHES REPLACED,4 BLOWER MOTOR BRUSHES REPLACED'.
**24.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**24.05.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 3 GLOBES REPLACED,35 AMP FUSE REPLACED'.
**24.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT - ENGINE VALLEY DRAIN CLEARED,FLOOR DRAIN CLEARED'.
**24.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND VALVE REPLACED'.
**24.05.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BLOCK REPLACED'.
**28.06.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REBUILT & TESTED OK.'.

**Y 7**

Details: locomotive 'Y 7 T' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 12.7m
**Tare Weight:** 58.9tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Original Cost:** $209050
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L28
**Date Built:** 02.08.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 597kw
**Remarks:** VACUUM BRAKE;STORED 16.10.89
**BSG Code:** LTAY

| | | | |
|---|---|---|---|
| Return to Service Date: | 30.05.1991 | | |
| Last Lift: | 12.08.1983 | | |
| B Service Mileage: | 188466 KM | B Service Date: | 11.09.1989 |
| C Service Mileage: | 1172565 KM | C Service Date: | 27.10.1988 |
| F Service Mileage: | 0 KM | A Service Date: | 12.08.1983 |
| US Service Mileage: | 189189 KM | A Service Date: | 30.05.1991 |

**11.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**11.09.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**11.09.1989** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - C/COUPLING RELEASE BAR REPAIRED.'.
**11.09.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**11.09.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (1)BLOCK REPL.& ADJ.'.
**11.09.1989** Service defect: 'B - TRACTION MOTOR - T/MOTOR COVER PIN REPL.'.
**11.09.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**20.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE RENEWED.'.
**20.09.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**20.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - SEVERAL DRAUGHTS STOPPED.'.
**30.05.1991** Service defect: 'UN - TRACTION MOTORS'.

**Y 8**

Details: locomotive 'Y 8 F' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 12.7m
**Tare Weight:** 58.9tonne
**Current Gauge:** Narrow

**Gauge Restrictions:** N
**Bogie Configuration:** BO-BO
**Original Cost:** $209050
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L28
**Date Built:** 20.10.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 597kw
**Remarks:** VACUUM BRAKE;STORED 24.07.89
**BSG Code:** LTAY

| | | | |
|---|---|---|---|
| Return to Service Date: | 30.05.1991 | | |
| Last Lift: | 14.01.1985 | | |
| C Service Mileage: | 164913 KM | C Service Date: | 04.05.1988 |
| F Service Mileage: | 0 KM | A Service Date: | 14.01.1985 |
| US Service Mileage: | 168626 KM | A Service Date: | 30.05.1991 |

**Y 115**

Details: locomotive 'Y 115 Q' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 12.4m
**Tare Weight:** 68tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 450kw
**BSG Code:** LBVO

**Y 165**

Details: locomotive 'Y 165 K' in AN 'Mainland Division'.

**Owner:** V/LINE
**Operator:** D
**Length Over Headstocks:** 12.4m
**Tare Weight:** 68tonne
**Current Gauge:** Broad
**Gauge Restrictions:** B
**Bogie Configuration:** CO-CO
**Date Built:** 01.01.1965
**Operating System:** V/LINE
**Intended Use:** MAINLINE
**Installed Power:** 450kw
**BSG Code:** LBVO

## 2.52 Locomotive classification starting with 'Z'

**Z 1**

Details: locomotive 'Z 1 M' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.8m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $397480
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L31
**Date Built:** 08.12.1972
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1510kw
**Remarks:** NAMED 'NORTHERN PROGRESS'
**BSG Code:** LTAZ

| | | | |
|---|---|---|---|
| Return to Service Date: | 20.09.1996 | | |
| Last Lift: | 13.11.1995 | | |
| A Service Mileage: | 669664 KM | A Service Date: | 23.07.1994 |
| B Service Mileage: | 43577 KM | B Service Date: | 20.09.1996 |
| C Service Mileage: | 676304 KM | C Service Date: | 05.10.1994 |
| F Service Mileage: | 695384 KM | A Service Date: | 13.11.1995 |
| US Service Mileage: | 39664 KM | A Service Date: | 30.07.1996 |

**06.07.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE OIL PIPE REPAIRED.'.
**06.07.1989** Service defect: 'C - ENGINE CYLINDER HEADS - TAPPETS ADJ.'.
**06.07.1989** Service defect: 'C - ENGINE WATER LEAK - REPAIRED WATER LEAKS.'.
**06.07.1989** Service defect: 'C - EXHAUST - BELLOW CLAMPS TIGHTENED,PLUG REPLACED.'.
**06.07.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**28.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**02.08.1989** Service defect: 'TW - COOLING SYSTEM - REPAIRED WATER LEAKS.'.
**02.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**02.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**02.08.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - SOUND WARNING - REPL.FAULT HORN.'.
**02.08.1989** Service defect: 'TW - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**20.09.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**20.09.1989** Service defect: 'TW - EXHAUST - EXHAUST PIPES PARTLY REPAIRED.'.
**20.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**20.09.1989** Service defect: 'TW - GENERAL - TESTED ON LOAD TANK.'.
**22.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - REPAIRED BLOWN LEAD.'.
**27.09.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.& REPAIRED TAIL LIGHT.'.
**27.09.1989** Service defect: 'B - ENGINE - TAPPETS ADJ.'.
**27.09.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (6)BRUSHES REPL.'.
**27.09.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**27.09.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (12)BRUSHES REPL.'.
**28.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**28.09.1989** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - REPAIRED GOVERNOR.'.
**06.10.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - REPL.CAB LIGHT SWITCH.'.
**06.10.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - REPAIRED OIL LEAK.'.
**01.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**29.11.1989** Service defect: 'UN - CONTACTOR EP VALVES - REPAIRED AIR LEAK IN M.C.1 CONTACTOR (VALVE).'.
**29.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED NEAR OIL PUMP.'.
**04.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**11.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**12.03.1990** Service defect: 'B - AUXILLARY MACHINES - (8)AUXILLARY GENERATOR BRUSHES REPLACED.'.
**12.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)GLOBES REPLACED & STEP LIGHT SOCKET SECURED.'.
**12.03.1990** Service defect: 'B - EXHAUST - MISSING EXHAUST BOLTS REPLACED NO.1 'B'BANK & EXHAUST PLUG RENEWED ON NO.6 'A'BANK.'.
**12.03.1990** Service defect: 'B - GENERAL - LOCO BOOKED OUT ON 03-01-90.SPEEDO READ 176610K/M ON LOCO.'.
**12.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (24)MAIN GENERATOR BRUSHES REPLACED.'.
**12.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS CHANGED & BRAKE CYLINDER ATTENDED TO.'.
**12.03.1990** Service defect: 'B - TRACTION MOTOR - TRACTION MOTOR BLOWER BELT RE-FITTED.'.
**12.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (10)TRACTION MOTOR BRUSHES REPLACED.'.
**24.04.1990** Service defect: 'TW - GENERAL - *LOCO GIVEN 'B'SERVICE AND BOOKED OUT ON 11-04-90 AT 1600HRS'.
**17.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 10-05-90 AT 2000HRS.'.
**17.05.1990** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRED H/RAIL & ROOF.'.
**21.05.1990** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - WIRE 1G DOWN TO EARTH IN CONDUIT, WIRE REPLACED WITH SP8.'.
**23.05.1990** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR PANELS REPLACED LOCO TESTED OK.'.
**10.10.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**10.10.1990** Service defect: 'C - CONTACTOR MISCELLANEOUS - MC4 AND MC5 REMOVED AND CLEANED'.
**10.10.1990** Service defect: 'C - COOLING SYSTEM RADIATOR - 2 RADIATOR ELEMENTS REPLACED'.
**10.10.1990** Service defect: 'C - GENERAL - *SPEEDO ON LOCO READ 217035K/M.'.
**10.10.1990** Service defect: 'C - MAIN GENERATOR BRUSHES - 8 MAIN GENERATOR BRUSHES REPLACED'.
**10.10.1990** Service defect: 'C - MECHANICAL EQUIPMENT - FRONT T/M BLOWER BELT REPLACED,EXHAUST BELLOW REPLACED,HOSE COUPLINGS TIGHTENED'.
**10.10.1990** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**10.10.1990** Service defect: 'C - TRACTION MOTOR BRUSHES - 4 T/M BRUSHES REPLACED'.
**05.02.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,LUBE NOZZLE REPLACED'.
**05.02.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - 1 SET OF SILVER INLAYED M.C.CONTACTS FITTED FOR TEST'.
**05.02.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - RADIATOR COMPARTMENT LIGHT REPAIRED,2 RIBBON TYPE GAUGE LIGHTS REPLACED'.
**05.02.1991** Service defect: 'B - ENGINE - NO.1 (B) BANJO WASHER REPLACED,NO. 3 (B) DRIBBLE PIPE REPLACED'.
**05.02.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 238652KM.'.
**05.02.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 4 MAIN GENERATOR BRUSHES REPLACED'.
**05.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - EXHAUST BELLOW REPLACED,1 EXHAUST GASKET REPLACED NO.5 (B) EXHAUST TAPPET ADJUSTED,WATER CHANGED'.
**05.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**05.02.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BLOCKS REPLACED'.
**05.02.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 T/M BRUSHES REPLACED'.
**24.05.1991** Service defect: 'FA - VOLTAGE REGULATOR TO BE REPLACED'.
**29.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,WHEEL FLANGE LUBRICATORS REPAIRED'.
**29.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WICKS - CHECKED AXLE WICKS IN SUSPENSION BEARING OIL BOXES'.
**29.05.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 GLOBES REPLACED,VOLTAGE REGULATOR FUSE REPLACED'.
**29.05.1991** Service defect: 'B - EXHAUST - LONG & SHORT EXHAUST PIPES REPLACED (A) BANK,4 EXHAUST BELLOWS REPLACED,NO.4 (B)BANK MANIFOLD GASKET & BOLTS'.
**29.05.1991** Service defect: 'B - FUEL SYSTEM - 2 FUEL PUMP WASHERS (A) BANK & 3 ON (B) BANK REPLACED, RENEWED NO.3 & NO.4 (A) BANK FUEL INJECTORS'.
**29.05.1991** Service defect: 'B - FUEL SYSTEM PUMP - NO.4 (A) BANK FUEL PUMP REPLACED'.
**29.05.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 261943KM.'.
**29.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT - WIPER MOTOR REPAIRED,T/M BELLOW REPLACED'.
**29.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED & 1 SAND PIPE REPLACED'.
**29.05.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BLOCKS REPLACED'.
**29.05.1991** Service defect: 'B - RADIO REPAIR - RADIO REPLACED'.
**29.05.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED'.

**03.06.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED & VOLTAGE TESTED O.K.'.
**03.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 262232KM.'.
**12.06.1991** Service defect: 'UN - TRACTION MOTOR EARTH - EARTHS ON NO.3 & 4 T/M TRACED TO BROKEN PIGTAILS,ALL OFFENDING BRUSHES REPLACED & VEE RINGS PAINTED'.
**15.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 264150KM'.
**20.06.1991** Service defect: 'TS - GENERAL - *** A.SERVICE ***,SPEEDO ON LOCO READ 265421KM.'.
**29.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - LOCO CHECKED OK.'.
**13.07.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH REPLACED'.
**15.07.1991** Service defect: 'UN - ENGINE WATER LEAK - RUBBER WATER HOSE ON WATER RAIL REPLACED DUE TO LEAK'.
**27.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**12.08.1991** Service defect: 'TS - NO FAULT FOUND - NO FAULT FOUND WITH WATER TEMP. SWITCHES'.
**14.08.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULT HORN SOUNDING DUE TO FAULTY HIGH WATER TEMPERATURE SWITCH,SWITCH REPLACED & LOCO TESTED OK.'.
**03.09.1991** Service defect: 'UN - ENGINE WATER LEAK - ENGINE WATER LEAKS REPAIRED'.
**14.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**12.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE WORKABLE'.
**24.10.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - 1 FLANGE LUBE NOZZLE REPLACED'.
**24.10.1991** Service defect: 'B - ENGINE WATER LEAK - WATER HOSE RENEWED ON BOTTOM OF RADIATOR ELEMENTS ON 'B' BANK.'.
**24.10.1991** Service defect: 'B - EXHAUST - EXHAUST BELLOW REPLACED ON 'B' BANK'.
**24.10.1991** Service defect: 'B - FUEL SYSTEM PUMP - NO.5 FUEL PUMP WASHER REPLACED ON 'A' BANK'.
**24.10.1991** Service defect: 'B - MECHANICAL EQUIPMENT - SLUDGE TANK DRAINED'.
**24.10.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BLOCKS REPLACED'.
**19.11.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK.'.
**21.11.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.
**21.11.1991** Service defect: 'TW - RADIO REPAIR - RADIO REPLACED'.
**14.05.1992** Service defect: 'TW - COOLING SYSTEM - LEAK REPAIRED IN WATER RAIL.'.
**14.05.1992** Service defect: 'TW - OTHER BODY REPAIRS - CAB DOOR LOCK REPAIRED.'.
**16.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR BRAKE HOSE PULLED OFF. REPLACED WITH NEW HOSE.'.
**20.05.1992** Service defect: 'UN - FUEL SYSTEM - ENGINE HUNTING CAUSED BY STICKING FUEL RACK.'.
**30.05.1992** Service defect: 'UN - COOLING SYSTEM - FAULT WOULD NOT START. LOW WATER PREVENTED STARTING. LEAK IN WATER RAIL NEAR TURBO BLOWER REPAIRED.'.
**30.05.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK IN RADIATOR COMPARTMENT REPAIRED.'.
**03.06.1992** Service defect: 'UN - NO FAULT FOUND - NO FAULTS FOUND.'.
**17.06.1992** Service defect: 'TW - NO FAULT FOUND - HEATERS AND BOOST PRESSURE CHECKED AND OK.'.
**19.06.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN PIPE WHICH CAUSED TRACK STOPPAGE ON 11/6/92 WAS REPAIRED AT BURNIE ON 15/6/92.'.
**19.06.1992** Service defect: 'TS - NO FAULT FOUND - HEATER FAULT REPORTED. NONE FOUND.'.
**19.06.1992** Service defect: 'TS - OTHER BODY REPAIRS - DOOR SEAL REPAIRED.'.
**25.06.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE HOSE CHANGED, BRAKES ADJUSTED.'.
**25.06.1992** Service defect: 'TS - OTHER BODY REPAIRS - DOOR HINGE REPAIRED.'.
**30.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS SIDE DOOR HINGE REPAIRED. WINDOW LEAK REPAIRED.'.
**10.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - BENT COW CATCHER REPAIRED.'.
**30.07.1992** Service defect: 'TW - OTHER BODY REPAIRS - COW CATCHER HEIGHT RAISED. FIREMANS SIDE DOOR REPAIRED. LEAKING CAB WINDOWS REPAIRED.'.
**03.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - PIVOTS AND PINTLES REPLACED.'.
**04.08.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FAULTY FLOURO STRIP IN GAUGE CAUSING INST LIGHT CIRCUIT FAULT. NO SPARE GAUGE AVAILABLE. GAUGE DISCONNECTED & LET GO'.
**04.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS SIDE CAB DOOR WOULD NOT STAY SHUT. REPAIRED AND OK.'.
**08.08.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLOURO STRIP INSIDE FLOW METER NOT WORKING. AS NO REPLACEMENT GAUGE AVAILABLE ALLOWED TO GO. WILL DO NEXT TIME'.
**12.08.1992** Service defect: 'TW - ELECTRICAL MISC. AC/DC RELAYS - WHEEL SLIP RELAY ON #2 & #5 TRAC MOTORS HAD SHORTED CONTACTSRELAY REPAIRED & OK. THIS FAULT CAUSED A TRACK STOP 11/8/92.'.
**05.09.1992** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ULTRASOUND FLAW INSPECTION CARRIED OUT ON AXLES.'.
**05.09.1992** Service defect: 'C - BOGIE MAINTENANCE - WICKS - OIL PADS REPLACED ON AXLES NUMBER 5 AND 2.'.
**05.09.1992** Service defect: 'C - COOLING SYSTEM - WATER RAIL RUBBERS RENEWED.'.
**05.09.1992** Service defect: 'C - ENGINE - TAPPETS CHECKED AND ADJUSTED.'.
**05.09.1992** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**05.09.1992** Service defect: 'C - EXHAUST - 5 EXHAUST

BELLOWS REPLACED. EXHAUST PIPE REPAIRED. EXHAUST PLUG REPLACED.'.

**05.09.1992** Service defect: 'C - FUEL SYSTEM PUMP - NUMBER 3 B BANK FUEL PUMP WASHER REPLACED.'.

**05.09.1992** Service defect: 'C - MECHANICAL EQUIPMENT - FLANGE LUBE AIR FILTER REPLACED. TRACTION MOTOR BLOWER BRACKET REPAIRED.'.

**05.09.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE FUNCTIONAL.'.

**05.09.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 10 BRAKE BLOCKS CHANGED.'.

**08.09.1992** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES RECHARGED.'.

**08.09.1992** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED.'.

**10.09.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.

**10.09.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**21.09.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE REPLACED. VOLTAGE OUTPUT CHECKED.'.

**21.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - EARTHS REMOVED FROM CONTROL WIRING.'.

**12.10.1992** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND.'.

**25.11.1992** Service defect: 'TW - GENERAL - CAB FLOORING RENEWED AND SEAT MODIFICATIONS CARRIED OUT.'.

**27.11.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATER ELEMENTS BURNT OUT. NOT ENOUGH SPARES TO REPLACE ALL THE ELEMENTS. ENOUGH GOING TO HEAT CAB. CATCH UP LATER.'.

**27.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE PRESSURE ADJUSTED.'.

**27.11.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED FIELD DIVERT NOT REVERTING. NO FAULT FOUND TEST RUNNEXT WEEK.'.

**03.12.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - MISSING BRAKE ADJUSTER REPLACED.'.

**03.12.1992** Service defect: 'UN - FUEL SYSTEM PUMP - STICKING FUEL RACK REPAIRED.'.

**09.12.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - COOLING FAN TURNING ON TOO LATE AND ENGINE OVERHEATING. WATER TEMPERATURE SWITCHES 3 AND 4 ADJUSTED TO FIX PROBLEM.'.

**24.12.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - NEW WIRING LAID BETWEEN MAIN CONTROL CUBICLE AND ENGINE ROOM TERMINAL BOX.'.

**15.01.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - SUSPENSION BEARING OIL PADS CHECKED.'.

**15.01.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**15.01.1993** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOW REPLACED.'.

**15.01.1993** Service defect: 'B - FUEL SYSTEM LINES - HIGH PRESSURE PIPE TIGHTENED. BANJO WASHER REPLACED.'.

**15.01.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED.'.

**15.01.1993** Service defect: 'B - OTHER BODY REPAIRS - LEADING DERAILMENT BAR BOLTS REPLACED.'.

**15.01.1993** Service defect: 'B - RADIO REPAIR - PHONE SECURED.'.

**05.02.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING TO MARKER LIGHTS REPAIRED.'.

**11.03.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - BOTH TURBOCHARGERS REPLACED.'.

**11.03.1993** Service defect: 'UN - FUEL SYSTEM PUMP - NUMBER 6B FUEL CAM REPLACED.'.

**18.03.1993** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS.'.

**22.03.1993** Service defect: 'UN - NO FAULT FOUND - LOCO REPORTED PULLED TO A STOP. LOAD TANK AND TRACK TEST WITH NO FAULT FOUND.'.

**01.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**07.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**07.05.1993** Service defect: 'B - BOGIE - COTTER AND SADDLE REPLACED ON REAR BOGIE.'.

**07.05.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASONIC INSPECTION PERFORMED ON ALL AXLES.'.

**07.05.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC5 AND 6 REPAIRED.'.

**07.05.1993** Service defect: 'B - ENGINE CRANKSHAFT - WATER HOSE CLAMPS TIGHTENED ABOVE FLYWHEEL.'.

**07.05.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**07.05.1993** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOW REPLACED.'.

**07.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE PIPE REPAIRED ON FRONT BOGIE.'.

**07.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**07.05.1993** Service defect: 'TW - FUEL SYSTEM - LEAK IN FUEL TANK REPAIRED.'.

**07.05.1993** Service defect: 'TW - TRACTION MOTOR SUSPENSION BEARING - NUMBER 6 AXLE PAD AND SUSPENSION BEARING REPLACED.'.

**19.06.1993** Service defect: 'TS - FUEL SYSTEM PUMP - FUEL PUMP TIMING ADJUSTED.'.

**19.06.1993** Service defect: 'TS - MAIN GENERATOR - MAIN GENERATOR REPLACED.'.

**01.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - BLOCKED SLUDGE TANK AND BILGE DRAINS CLEARED.'.

**09.07.1993** Service defect: 'UN - BROKEN PIPE - BROKEN OIL PIPE TO POTENTIOMETER REPAIRED.'.

**09.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**12.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT

WELDED.'.
**16.07.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CIRCUIT BOARDS REPLACED.'.
**16.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**26.07.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CIRCUIT BOARDS REPLACED DUE TO JUMPING.'.
**06.08.1993** Service defect: 'B - COOLING SYSTEM - WATER LEAK REPAIRED ON RADIATOR BANK B SIDE.'.
**06.08.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED. FLANGE LUBE PIPE REPAIRED.'.
**06.08.1993** Service defect: 'B - EXHAUST - 4 EXHAUST BELLOW GASKETS REPLACED. 1 EXHAUST BELLOW REPLACED'.
**06.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL PICK UP FILTER CLEANED.'.
**06.08.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**06.08.1993** Service defect: 'B - OTHER BODY REPAIRS - FRONT DERAIL BAR TIGHTENED UP.'.
**25.08.1993** Service defect: 'UN - BOGIE - BOGIE CHANGE CARRIED OUT.'.
**30.08.1993** Service defect: 'UN - WHEELSLIP - FIELD DIVERSION AND WHEELSLIP FAULTS REPAIRED.'.
**03.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIELD DIVERSION FAULT REPAIRED.'.
**03.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - DERAILMENT BAR REPAIRED.'.
**13.09.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SPEEDOMETER GLOBE REPLACED.'.
**16.09.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - HAND BRAKE REPAIRED.'.
**24.11.1993** Service defect: 'UN - AUXILLARY MACHINES - AUXILLIARY GENERATOR REPLACED DUE TO CHARGING PROBLEMS.'.
**24.11.1993** Service defect: 'UN - MAIN GENERATOR - MAIN GENERATOR REPLACED DUE TO BEARING FAILURE.'.
**08.12.1993** Service defect: 'UN - AUXILLARY MACHINES - AUXILLIARY GENERATOR REPLACED.'.
**02.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**11.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**11.02.1994** Service defect: 'UN - RADIO REPAIR - PHONE REPAIRED.'.
**03.03.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - A BANK #2 HEAD REPLACED.'.
**03.03.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - BOTH TURBOCHARGERS REPLACED DUE TO DAMAGE FROM DROPPED VALVE'.
**03.03.1994** Service defect: 'UN - NO FAULT FOUND - LOAD TANK TESTED.'.
**04.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - HAND BRAKE SHAFT REPAIRED.'.
**22.03.1994** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED DUE TO 20
**22.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 10 BRAKE BLOCKS REPLACED.'.
**14.04.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED.'.
**14.04.1994** Service defect: 'UN - FUEL SYSTEM LINES - EXAMINED FOR FUEL LEAKS WHICH COULD HAVE CONTRIBUTED TO THE RECENT FUEL DILUTION PROBLEM. NO LEAKS FOUND.'.
**14.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SPLINE SHAFT REPLACED.'.
**26.04.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**26.04.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - NUMBER 1A EXHAUST CAM FOLLOWER PIN ROLLER AND BODY REPLACED.'.
**26.04.1994** Service defect: 'UN - RADIO REPAIR - PHONE AERIAL REPLACED.'.
**11.05.1994** Service defect: 'UN - EXHAUST - EXHAUST BELLOW GASKETS REPLACED.'.
**13.05.1994** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGE CARRIED OUT DUE TO 20
**26.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**26.05.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 12 BRAKE BLOCKS AND ADJ. BRAKE ADJUSTER REPLACED.'.
**30.06.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO LIGHT RESISTANCE REPLACED.'.
**18.08.1994** Service defect: 'UN - EXHAUST - EXHAUST LEAKS REPAIRED. WATER LEAKS REPAIRED.'.
**06.09.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING REPAIRS CARRIED OUT.'.
**06.09.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - VALVE ROCKER GEAR REPAIRED.'.
**06.09.1994** Service defect: 'UN - EXHAUST - EXHAUST REPAIRS CARRIED OUT.'.
**13.11.1995** Service defect: 'F - NO FAULT FOUND - F SERVICE COMPLETED.'.

### Z 2

Details: locomotive 'Z 2 V' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.8m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $397480
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L31
**Date Built:** 12.01.1973
**Operating System:** AN

**Intended Use:** MAINLINE
**Installed Power:** 1510kw
**Remarks:** NAMED 'BELL BAY PIONEER'
**BSG Code:** LTAZ

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 09.09.1996 | | |
| Last Lift: | 30.08.1983 | | |
| SW Service Mileage: | 293041 KM | SW Service Date: | 01.05.1992 |
| B Service Mileage: | 669911 KM | B Service Date: | 27.05.1994 |
| C Service Mileage: | 594263 KM | C Service Date: | 06.11.1992 |
| F Service Mileage: | 708518 KM | A Service Date: | 09.09.1996 |
| US Service Mileage: | 705550 KM | A Service Date: | 26.06.1995 |

**02.08.1989** Service defect: 'UN - BOGIE - BOGIE NO.ZF 12 & 2 REPL. BY BOGIES OUT OF ZB6 NO.S6 & S17'.
**06.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**06.09.1989** Service defect: 'UN - NO FAULT FOUND - *TEST RUN TO E.T.J.TO CHECK BOOST 'OK'.'.
**13.09.1989** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - INTERIOR LIGHT SWITCH REPL.'.
**13.09.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**13.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**18.09.1989** Service defect: 'UN - EXHAUST - REPAIRED EXHAUST PIPES.'.
**18.09.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED BOOST 'OK'.'.
**19.09.1989** Service defect: 'UN - DRIVER FAULT - JUMPER FITTED IN DUMMY SOCKET BY DRIVER.'.
**21.09.1989** Service defect: 'UN - VIGILANCE - PANEL REPL. & E.P.VALVE CLEANED.'.
**27.09.1989** Service defect: 'UN - EXHAUST - NEW EXHAUST PIPE & BELLOWS FITTED.'.
**29.09.1989** Service defect: 'TS - NO FAULT FOUND - CHECKED EXHAUST & INLET FOR AIR LEAKS 'OK'.'.
**03.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - REPAIRED BROKEN AIR PIPE.'.
**18.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE. *WRONG BOOKING SHOULD BE 17-10-89'.
**25.10.1989** Service defect: 'UN - COOLING SYSTEM WATER PUMP - WATER PIPE REPAIRED (WELDED)'.
**20.11.1989** Service defect: 'C - BOGIE - F/LUBE NOZZLE & PIPE RENEWED.'.
**20.11.1989** Service defect: 'C - CONTACTOR MISCELLANEOUS - ALL CONTACTS CLEANED & TRUED UP'.
**20.11.1989** Service defect: 'C - COOLING SYSTEM - WATER HOSE NEAR 'B' BANK WATER PUMP RENEWED.'.
**20.11.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.& SPEEDO GLOBE REPL.'.
**20.11.1989** Service defect: 'C - FUEL SYSTEM PUMP - NO.2 'B' BANK & NO.4 'A' BANK WASHERS RENEWED.'.
**20.11.1989** Service defect: 'C - GENERAL - JUMPER LEAD INSTALLED ON LOCO.'.
**20.11.1989** Service defect: 'C - MAIN GENERATOR BRUSHES - (4)BRUSHES REPL.'.
**20.11.1989** Service defect: 'C - MECHANICAL EQUIPMENT - FRONT D/SIDE WIPER REPAIRED.'.
**20.11.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - (8)BLOCKS REPL.& ADJ.SADDLE ON BRAKE SPRING RENEWED.'.
**20.11.1989** Service defect: 'C - TRACTION MOTOR BRUSHES - (10)BRUSHES REPL.'.
**20.11.1989** Service defect: 'C - WHEELSLIP - BUZZER REPAIRED.'.
**20.11.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**20.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**30.11.1989** Service defect: 'UN - COOLING SYSTEM - REPL.FAN SHAFT.'.
**30.11.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**30.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**13.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**13.12.1989** Service defect: 'UN - NO FAULT FOUND - BOOST CHECKED 'OK'.'.
**15.12.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**15.12.1989** Service defect: 'UN - EXHAUST - REPL.EXHAUST PLUG (MISSING).'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6) GLOBES REPLACED.'.
**13.03.1990** Service defect: 'B - ENGINE - TIMING CHAIN TIGHTENED & NO.3 'B'BANK H.P. TIGHTENED UP.'.
**13.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 06-03-90.'.
**13.03.1990** Service defect: 'B - GENERAL - *SR1 TO CHECK NEXT SERVICE.'.
**13.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (2) MAIN GENERATOR BRUSHES REPLACED.'.
**13.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.03.1990** Service defect: 'B - RADIO REPAIR - RADIO NO. 53043 FITTED.'.
**22.03.1990** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - FRONT CENTRE COUPLING RENEWED.'.
**22.03.1990** Service defect: 'UN - NO FAULT FOUND - FIELD DIVERSION & BOOST CHECKED 'OK'.'.
**22.03.1990** Service defect: 'UN - RADIO REPAIR - RADIO H/SET REPL.'.
**06.04.1990** Service defect: 'TW - GENERAL - *LOCO BOOKED OUT ON 04-04-90 AT 1500HRS.'.
**23.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 18-04-90.'.
**04.05.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**04.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**04.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**04.05.1990** Service defect: 'UN - NO FAULT FOUND - POWER CHECKED 'OK'.'.
**17.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 10-05-90 AT 1600HRS.'.
**23.05.1990** Service defect: 'UN - ENGINE WATER LEAK - SEVERAL SMALL WATER LEAKA STOPPED.'.
**04.06.1990** Service defect: 'B - ENGINE WATER LEAK - REPAIRED WATER LEAKS.'.
**04.06.1990** Service defect: 'B - EXHAUST - REPLACED BELLOWS & GASKETS.'.
**04.06.1990** Service defect: 'B - GENERAL - REPLACED TRAIN PIPE HOSE.'.
**29.08.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - AIR LEAK ON M.C.6 REPAIRED.'.
**29.08.1990** Service defect: 'B - EXHAUST - (2)BELLOWS REPL.'.

**29.08.1990** Service defect: 'B - MECHANICAL EQUIPMENT - REPAIRED W/WIPER MOTOR & PIVOTING PINDLE REPL.'.
**29.08.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED'.
**29.08.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ADJUSTED ALL BRAKES.'.
**29.08.1990** Service defect: 'B - TRACTION MOTOR - V-RING ON NO.5 MOTOR CLEANED & REPAINTED.'.
**23.11.1990** Service defect: 'B - AUXILLARY MACHINES - 2 AUX. GENERATOR BRUSHES REPLACED'.
**23.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**23.11.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - STARTING AND M.C.CONTACTS ALL REMOVED AND REFITTED'.
**23.11.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 8 LAMPS REPLACED,W/SLIP ALARM REPAIRED'.
**23.11.1990** Service defect: 'B - FUEL SYSTEM PUMP - NO.4 [A| FUEL PUMP WASHER REPLACED'.
**23.11.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 219969KM.'.
**23.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT - 3 EXHAUST BELLOWS REPLACED,T/M BELLOWS REPAIRED,NO.5 [B| BANJO WASHER REPLACED,NO.6 [A| PLUG AND WASHER REPLACED'.
**23.11.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BLOCKS REPLACED AND ADJUSTED'.
**14.03.1991** Service defect: 'C - ENGINE - SET OF INJECTORS CHANGED,FUEL PUMP WASHER REPLACED'.
**14.03.1991** Service defect: 'C - GENERAL - 235660KM.ON LOCO SPEEDO'.
**14.03.1991** Service defect: 'C - MECHANICAL EQUIPMENT - 5 EXHAUST BELLOWS REPLACED'.
**14.03.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SAND HOSE SET TO RAIL'.
**14.03.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BLOCK REPLACED'.
**25.05.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - FIELD DIVERSION TESTED O.K.'.
**25.05.1991** Service defect: 'TW - GENERAL - (A) SERVICE'.
**25.05.1991** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT REPLACED'.
**05.06.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGERS REPLACED'.
**05.07.1991** Service defect: 'B - BOGIE MAINTENANCE - SPRINGS - PINTLES REPLACED'.
**05.07.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLE BOX SPACER NO.1 WHEEL REPLACED 6 AXLE BOX PADS REPLACED'.
**05.07.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FRONT D/S STEP LIGHT REPAIRED & GLASS REPLACED,2 GLOBES REPLACED'.
**05.07.1991** Service defect: 'B - EXHAUST - NO.3'A'BANK EXHAUST PIPE RENEWED,3 EXHAUST BELLOWS REPLACED'.
**05.07.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 5 MAIN GEN.BRUSHES REPLACED'.
**05.07.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED,BRAKE CLAMP REPLACED'.
**05.07.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 12 TRACTION MOTOR BRUSHES REPLACED'.
**16.07.1991** Service defect: 'UN - WHEELSLIP - S.W.R.I & S.W.R.2 WHEELSLIP RELAYS REPAIRED'.
**23.07.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING TO FRONT MARKER LIGHTS RENEWED & WIRING TO OBSERVERS SIDE INDEPENDANT BRAKE CUT-OUT SWITCH REMOVED A/C EARTHS'.
**23.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO LIGHT LAMP HOLDER REPLACED'.
**02.08.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHANGED'.
**10.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - SPRING HANGER REPLACED'.
**10.08.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK OVER GOVERNOR REPAIRED'.
**10.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED'.
**19.08.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR REPLACED & LOCO TESTED ON LOAD TANK OK.'.
**21.08.1991** Service defect: 'TW - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR ELECTRONIC PANELS REPLACED'.
**21.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**23.08.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - F.D.T. SNAP SWITCH REPLACED'.
**23.08.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV. OIL TOPPED UP'.
**23.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**27.08.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH LOAD REGULATOR'.
**29.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - ENGINE BILGE CLEARED'.
**11.09.1991** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.
**04.10.1991** Service defect: 'UN - WHEELSLIP - W.S.R.1 REPLACED,ALL OTHER WHEELSLIP RELAYS RESET,LOCO TEST RUN OK.'.
**15.10.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CARDS REPLACED'.
**25.10.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**15.11.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR STALL CURRENT ADJUSTED'.
**20.11.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR PANELS REPLACED'.
**06.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHTS.'.
**26.05.1992** Service defect: 'UN - TRACTION MOTOR EARTH - EARTH FAULTS FIX.'.
**30.05.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - FAULT LOCO GOING OPPOSITE DIRECTION TO THAT SELECTED ON CONTROLLER. WIRING FAULT IN JUMPER SOCKET & SANDING CIRCUIT.'.

**11.06.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - HOT GASES FROM LEAKING EXHAUST PLUG BURNED HOLE IN FLEXIBLE PLASTIC HOSE SUPPLYING AIR PRESSURE TO GOVERNOR.'.
**09.07.1992** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH FAULTS FIXED BY RENEWING THE WIRING TO THEGOVERNOR PLUG AND TO THE FIRE WARNING SENSOR.'.
**09.07.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOOSE CARDS IN LOAD REGULATOR.'.
**23.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.08.1992** Service defect: 'UN - GENERAL - BODY WASH.'.
**07.08.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**24.08.1992** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE CLEANED TO HELP FIND REPORTED OIL LEAKS. LEAKS LOCATED AND REPAIRED.'.
**24.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CLOCK NOT WORKING. SPEEDOMETER REPLACED.'.
**26.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDER ON FIREMANS SEAT REPAIRED.'.
**26.08.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED NO BOOST PRESSURE. NO FAULT FOUND. INTO SERVICE ANDTEST RUN 27/8/92.'.
**29.08.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE. BILGE DRAINED, FOOTPLATE CLEANED.'.
**29.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**29.08.1992** Service defect: 'UN - RADIO REPAIR - RADIO DISPLAY LOOSE. TIGHTENED.'.
**19.09.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - BLOCKED RADIATOR FINS STEAM CLEANED.'.
**19.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNED WIRING TO FIRE ALARM CAUSED BY ENGINE EXHAUST LEAK. WIRING REPLACED.'.
**19.09.1992** Service defect: 'UN - EXHAUST - ENGINE EXHAUST MANIFOLD REPAIRED.'.
**06.11.1992** Service defect: 'C - BLOCKED FILTERS - PONGLASS FILTER REPLACED.'.
**06.11.1992** Service defect: 'C - COOLING SYSTEM RADIATOR - WATER FITTINGS UNDER RADIATOR ELEMENTS ON B SIDE REPAIRED.'.
**06.11.1992** Service defect: 'C - ELECTRICAL MISCELLANEOUS - LOW GOVERNOR OIL CRANKING CUTOUT MODIFICATION CARRIED OUT.'.
**06.11.1992** Service defect: 'C - ENGINE - 3 SPLIT PINS REPLACED IN CONROD BOLTS.'.
**06.11.1992** Service defect: 'C - ENGINE CYLINDER HEADS - TAPPET PEDESTAL REPLACED ON NUMBER 5 HEAD A BANK.'.
**06.11.1992** Service defect: 'C - EXHAUST - 12 EXHAUST BELLOWS GASKETS REPLACED.'.
**06.11.1992** Service defect: 'C - MECHANICAL EQUIPMENT - 2 FLANGE LUBE NOZZLES REALIGNED. 1 WIPER BLADE REPLACED ON FIREMANS WINDOW.'.
**06.11.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**06.11.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED, AND BRAKES ADJUSTED.'.
**06.11.1992** Service defect: 'C - NO FAULT FOUND - ANALYSIS SHOWED A LARGE INCREASE IN LEAD AND COPPER IN THE ENGINE OIL. CONFIRMED BY CALTEST. BEARING CHECK NO FAULT FND'.
**06.11.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - SERVICE SHEET REPORTS NUMEROUS BRUSHES REPLACED.'.
**12.11.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - TRACTION MOTOOR BLOWER FAILURE LIGHT REPORTED AS TOO BRIGHT.CORRECT WATTAGE LIGHT GLOBE INSTALLED.'.
**12.11.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOW WATER ALARM MODIFICATION CARRIED OUT'.
**12.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DAMAGED FRONT SANDBOX REPAIRED.'.
**12.11.1992** Service defect: 'UN - NO FAULT FOUND - FIELD DIVERSION CONTACTOR FAULT REPORTED. NO FAULT FOUND.'.
**25.11.1992** Service defect: 'UN - ENGINE LINER - LEAKING CYLINDER LINERS REPAIRED.'.
**02.12.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.
**23.12.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**02.02.1993** Service defect: 'B - ELECT. MISC. - GAUGES & INSTRUMENTS - INSTRUMENT LIGHTS REPAIRED.'.
**02.02.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPAIRED. 7 GLOBES REPLACED.'.
**02.02.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**02.02.1993** Service defect: 'B - EXHAUST - EXHAUST BELLOW GASKETS REPLACED.'.
**02.02.1993** Service defect: 'B - FUEL SYSTEM LINES - BANJO PIPE REPLACED ON A BANK. 4 BANJO WASHERS REPLACED ON B BANK.'.
**02.02.1993** Service defect: 'B - FUEL SYSTEM PUMP - 1 FUEL PUMP WASHER REPLACED ON B BANK.'.
**02.02.1993** Service defect: 'B - LUBRICATING SYSTEM - OIL FEED PIPE TO A BANK HEAD REPLACED.'.
**02.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**05.02.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR PANELS FELL OUT. PANELS REPOSITIONED.'.
**17.02.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED DRIVERS SIDE JUMPER SOCKET WONT AMP. CHECKED AND NOFAULT FOUND.'.
**26.02.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDOMETER ELECTRIC DRIVE CABLE REPAIRED.'.
**26.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT WINDSCREEN WIPERS ADJUSTED. REAR WIPER REPLACED. NUMBER 2 TRACTION MOTOR BELLOW REPLACED.'.
**08.03.1993** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CONTROL EARTHS REMOVED.'.
**08.03.1993** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - CIRCUIT BOARDS REPLACED IN LOAD

REGULATOR.'.

**08.03.1993** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE REPLACED.'.

**18.03.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR THROTTLE AIR PRESSURE PIPE REPAIRED.'.

**26.03.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - CIRCUIT BOARDS REPLACED IN LOAD REGULATOR.'.

**26.03.1993** Service defect: 'UN - NO FAULT FOUND - FAULT REPORTED IN SPEEDOMETER. CHECKED AND NO FAULT FOUND.'.

**10.04.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP.'.

**10.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**10.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER REPLACED WITH UNIT REMOVED FROM ZA3.'.

**16.04.1993** Service defect: 'TW - GENERAL - FIRE EXTINGUISHERS DISCHARGED BY VANDALS. REPLACED.'.

**16.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - VANDALISED CAB WINDOWS REPLACED.'.

**04.05.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASONIC INSPECTION PERFORMED ON ALL AXLES.'.

**04.05.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE PADS CHECKED. 4 SADDLES AND 4 COTTERS REPLACED.'.

**04.05.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC 1,2 AND 3 CONTACTS REPLACED.'.

**04.05.1993** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - WATER TEMPERATURE SWITCHES CHECKED AND OK.'.

**04.05.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FIREMANS SIDE CAB LIGHT TUBE REPLACED.'.

**04.05.1993** Service defect: 'B - ENGINE GOVERNOR MECHANICAL - GOVERNOR AIR PRESSURE PIPE REPLACED.'.

**04.05.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**04.05.1993** Service defect: 'B - FUEL SYSTEM PUMP - 2 FUEL PUMP WASHERS REPLACED ON B BANK. 1 FUEL PUMP WASHER REPLACED ON A BANK.'.

**04.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**04.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.

**22.05.1993** Service defect: 'UN - FUEL SYSTEM - SPLIT FUEL TANK WELDED.'.

**28.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**28.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS SIDE DOOR LOCK REPAIRED.'.

**01.06.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - 1 FLUORESCENT RIBBON REPLACED IN A CAB GAUGE.'.

**01.06.1993** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - DRIVERS SIDE HEADLIGHT SWITCH REPLACED.'.

**16.06.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - 2000 AMPS IN FIRST POWER. LOAD REGULATOR CIRCUIT BOARDS REPLACED.'.

**01.07.1993** Service defect: 'UN - NO FAULT FOUND - LOCOMOTIVE CHECKED AND NO FAULTS FOUND.'.

**08.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**17.07.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT STRIP NOT WORKING IN AMP METER. METER REPLACED.'.

**31.07.1993** Service defect: 'UN - EXHAUST - EXHAUST BELLOWS REPLACED.'.

**31.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**13.08.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - NO 1 AXLE BOX BEARING REPLACED.'.

**13.08.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE BEARING PADS CHECKED.'.

**13.08.1993** Service defect: 'B - LUBRICATING SYSTEM - OIL FEED PIPE TO 6A HEAD REPLACED.'.

**13.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE PIPE REPAIRED. AIR COMPRESSSOR OIL PICK UP FILTER CLEANED.'.

**13.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED AND SANDERS CLEARED.'.

**13.08.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**26.08.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE SOLENOIDS ADJUSTED. DYNAMIC BRAKE SWITCH IN D/S SPEEDO REPLACED.'.

**26.08.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - CONTROL CHOKE IN GOVERNOR FOR POTENTIOMETER OIL ADJUSTED.'.

**16.09.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**18.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPAIRED.'.

**06.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE REPAIRS.'.

**06.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPAIRED.'.

**06.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**12.10.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED. BRAKES ADJUSTED.'.

**16.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**19.10.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE REPLACED.'.

**19.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPAIRS CARRIED OUT.'.

**05.11.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER FILTERS CAUGHT FIRE. BEARINGS IN BOTH TURBO'S REPLACED.'.

**11.02.1994** Service defect: 'UN - BOGIE - LEADING BOGIE COMPLETELY OVERHAULED. TRAILING BOGIE EX Z1 FITTED.'.
**25.02.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT CLEARED.'.
**25.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 2 COMPRESSOR GOVERNOR DIODES REPLACED.'.
**25.02.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED COMPRESSOR GOVERNOR FAULT DUE TO EARTH FAULT.'.
**05.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**11.03.1994** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - BROKEN FAN DRIVE COUPLING REPLACED.'.
**15.03.1994** Service defect: 'UN - FUEL SYSTEM - BROKEN FUEL TANK BRACKETS REPAIRED.'.
**23.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.03.1994** Service defect: 'TW - OTHER BODY REPAIRS - CAB DRAUGHTS IXED.'.
**28.03.1994** Service defect: 'UN - TRACTION MOTOR EARTH - NUMBER 1 TRACTION MOTOR LUG REPLACED.'.
**13.04.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER FILTERS CAUGHT FIRE AND MELTED. BOTH TURBO'S REMOVED AND INSPECTED.'.
**21.04.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - REVERSER SPRAYED WITH CRC 5.56 TO EASE OPERATION.'.
**21.04.1994** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - THROTTLE PRESSURE PIPE REPAIRED.'.
**27.04.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VOLTAGE DROP RESISTANCE FOR VIGILANCE FEED REPLACED.'.
**04.05.1994** Service defect: 'TW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO SIGHT GLASS REPLACED.'.
**04.05.1994** Service defect: 'TW - LUBRICATING SYSTEM - ENGINE OIL REPLACED DUE TO ATTRITION.'.
**27.05.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REPLACED REAR HEADLIGHT SWITCH, 4 STEP LIGHT LENSES.'.
**27.05.1994** Service defect: 'B - EXHAUST - 2 EXHAUST PIPES CHANGED. 1 EXHAUST BELLOWS.'.
**27.05.1994** Service defect: 'B - MECHANICAL EQUIPMENT - REAR BLOWER BELT CHANGED. 1 FLANGE LUBE BRACKET REPAIRED. WINDOW WIPER MOTOR REPAIRED.'.
**27.05.1994** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - FRONT COUPLING ROD REPLACED AND BRACKET REPAIRED. B BANK WATER PUMP GASKET REPLACED. OVERFLOW HOSE REPLACED.'.
**27.05.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJ. WICKS CHECKED & OK.'.
**27.05.1994** Service defect: 'B - TRACTION MOTOR EARTH - CABLE ON #1 TRACTION MOTOR REPAIRED. 4 TRACTION MOTOR BRUSHES REPLACED.'.
**09.11.1994** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - EARTH FAULTS REPAIRED.'.
**09.11.1994** Service defect: 'TS - MAIN GENERATOR FLASHOVER - MAIN GENERATOR OVERHAULED FOLLOWING FLASHOVER.**********'.
**09.11.1994** Service defect: 'TS - TRACTION MOTOR - NUMBER 1 AND 6 TRACTION MOTORS REPLACED. **********'.

### Z 3

Details: locomotive 'Z 3 H' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.8m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $397480
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L31
**Date Built:** 18.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1510kw
**BSG Code:** LTAZ

| | | | |
|---|---|---|---|
| Return to Service Date: | 04.09.1996 | | |
| Last Lift: | 14.05.1992 | | |
| A Service Mileage: | 162773 KM | A Service Date: | 14.10.1994 |
| B Service Mileage: | 214423 KM | B Service Date: | 12.08.1995 |
| C Service Mileage: | 530573 KM | C Service Date: | 19.09.1990 |
| F Service Mileage: | 0 KM | A Service Date: | 14.05.1992 |
| US Service Mileage: | 274201 KM | A Service Date: | 01.07.1996 |

**19.07.1989** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH RENEWED.'.
**19.07.1989** Service defect: 'TW - ENGINE WATER LEAK - WATER PIPE REPAIRED.'.
**19.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**19.07.1989** Service defect: 'TW - OTHER BODY REPAIRS - DOOR & WINDOW SEALS RENEWED.'.
**28.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**28.07.1989** Service defect: 'UN - TRACTION MOTOR - BELLOWS RENEWED.'.
**13.09.1989** Service defect: 'UN - NO FAULT FOUND - W/SLIP TESTED 'OK'.'.
**13.09.1989** Service defect: 'UN - TRACTION MOTOR - T/MOTOR BLOWER PRESSURE TESTED 'OK'.'.
**18.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**19.09.1989** Service defect: 'UN - DRIVER FAULT - JUMPER FITTED TO WRONG SOCKET BY DRIVER.'.
**19.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - CHANGED OIL.'.
**21.09.1989** Service defect: 'TS - NO FAULT FOUND - INLET & EXHAUST PIPES CHECKED 'OK'.'.
**12.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 25-01-90.SPEEDO READ 149818K/M ON LOCO.'.
**12.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (6)BLOCKS REPL.& ADJUSTED.'.

**29.05.1990** Service defect: 'CA - GENERAL - *LOCO BOOKED OUT ON 29-05-1990 AT 1600HRS.'.
**19.09.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - (1)F/LUBE PIPE REPL.'.
**19.09.1990** Service defect: 'C - ENGINE WATER LEAK - RENEWED WATER PIPE FROM RAIL TO HEADER TANK.'.
**19.09.1990** Service defect: 'C - FUEL SYSTEM PUMP - (2)F/PUMP WASHERS ON NO.5 & 6 'B'BANK REPL.'.
**19.09.1990** Service defect: 'C - GENERAL - *SPEEDO ON LOCO READ 161255K/M.'.
**19.09.1990** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - (1)HOSE REPL.'.
**19.09.1990** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS REPL.ADJ.'.
**19.05.1992** Service defect: 'UN - RADIO REPAIR - CELLULAR PHONE PROGRAMMING CARRIED OUT.'.
**29.05.1992** Service defect: 'UN - NO FAULT FOUND - FAULT WINDING AMPS OFF. PUT ON LOAD TANK BUT COULD NOT BE FAULTED. TEST RUN SCHEDULED FOR AFTERNOON TUESDAY 2/6/92.'.
**06.06.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - CURRENT LIMITING RELAY RE-CALIBRATED, FIELD LIMITING RELAY REPLACED.'.
**12.06.1992** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE IN CAB HEATER REPAIRED.'.
**16.06.1992** Service defect: 'UN - COOLING SYSTEM - WATER LEAK IN WATER RAIL NEAR GOVERNOR'.
**25.06.1992** Service defect: 'TW - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**25.06.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**10.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.07.1992** Service defect: 'TW - ENGINE GOVERNOR - OIL LEAK IN FITTING BETWEEN GOVERNOR AND POTENTIOMETER REPAIRED.'.
**04.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - MISSING WINDOW WIPER BOLT REPLACED.'.
**22.08.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - HOLE IN GOVERNOR THROTTLE PIPE REPAIRED.'.
**22.08.1992** Service defect: 'UN - NO FAULT FOUND - FAULT REPORTED IN RADIO CIRCUIT BREAKER AND PANEL LIGHTS. NOFAULTS FOUND.'.
**26.08.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - RADIO CIRCUIT BREAKER REPLACED.'.
**02.09.1992** Service defect: 'TW - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**03.09.1992** Service defect: 'UN - RADIO REPAIR - TRANSCEIVER REPLACED.'.
**09.09.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - ALL RADIO FUSES REPLACED.'.
**09.09.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**19.09.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - NUMBER 3 AND 4 OVERLOADS ADJUSTED.'.
**29.09.1992** Service defect: 'TW - NO FAULT FOUND - CHECKED FOR POSSIBLE DAMAGE FOLLOWING DRAILMENT. NO DAMAGE FOUND.'.
**12.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WHEEL SLIP BUZZER ADJUSTED.'.
**12.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDOW WIPERS TIGHTENED, BLADES REPLACED. PAPER CLIP REPAIRED.'.
**12.10.1992** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS SIDE DOOR LOCK SECURED TO DOOR.'.
**19.10.1992** Service defect: 'B - BLOCKED FILTERS - PONGLASS FILTERS REPLACED.'.
**19.10.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE OIL PADS CHECKED AND OK.'.
**19.10.1992** Service defect: 'B - COOLING SYSTEM - WATER LEAK STOPPED AT BOTTOM OF HEADER TANK.'.
**19.10.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**19.10.1992** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOW REPLACED.'.
**19.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**19.10.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**19.10.1992** Service defect: 'B - TRACTION MOTOR - 1 TRACTION MOTOR COVER REPLACED.'.
**19.10.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 TRACTION MOTOR BRUSHES REPLACED.'.
**22.10.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEADLIGHT SWITCH REPLACED.'.
**22.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**29.10.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE CLEANED OFF'.
**29.10.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**06.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**06.11.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED BOOST FAILURE. NO FAULT FOUND.'.
**06.11.1992** Service defect: 'UN - OTHER BODY REPAIRS - MISSING ENGINE ROOM DOOR REPLACED.'.
**12.11.1992** Service defect: 'TW - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE FROM SPEEDOMETER AXLE DRIVE REPAIRED.'.
**12.11.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - LOW WATER ALARM MODIFICATION CARRIED OUT.'.
**12.11.1992** Service defect: 'TW - LUBRICATING SYSTEM - ENGINE OIL LEAK REPAIRED. OIL CLEANED OFF FOOOTPLATE.'.
**12.11.1992** Service defect: 'TW - NO FAULT FOUND - BOOST FAILURE FAULT REPORTED. NO FAULT FOUND.'.
**14.11.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING FAULT CORRECTED IN VIGILANCE CIRCUIT.'.
**14.11.1992** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE IN SPEEDOMETER SENDER UNIT REPAIRED.'.
**28.11.1992** Service defect: 'UN - DYNAMIC BRAKE - AIR LEAK ON DB3 REPAIRED.'.
**28.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - BROKEN AIR FILTER REPLACED.'.
**28.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HOSE REPLACED.'.

**28.11.1992** Service defect: 'UN - NO FAULT FOUND - OIL ON FOOTPLATE REPORTED. NO OIL LEAK FOUND.'.
**04.12.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMPRESSOR GOVERNOR SOLENOID REPAIRED.'.
**04.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SAFETY VALVE CHECKED. FLOWMETER GAUGE REPAIRED. RESTRICION REMOVED FROM PIPES LEADING TO MAIN RESERVOIR.'.
**23.12.1992** Service defect: 'TW - CONTACTOR MISCELLANEOUS - MC 5 REPAIRED.'.
**27.01.1993** Service defect: 'TW - RADIO REPAIR - PHONE REPAIR CARRIED OUT.'.
**05.02.1993** Service defect: 'UN - TRACTION MOTOR - RUBBER BOOT TO NUMBER 1 AND 6 TRACTION MOTORS REPAIRED.'.
**03.03.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - 3 AXLE PADS REPLACED.'.
**03.03.1993** Service defect: 'B - COOLING SYSTEM RADIATOR - WATER CONNECTION TIGHTENED UNDER RADIATOR ELEMENTS ON B BANK'.
**03.03.1993** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 4A EXHAUST VALVE TAPPET ADJUSTED.'.
**03.03.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**03.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**03.03.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 10 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**03.03.1993** Service defect: 'B - RADIO REPAIR - PHONE HOLDER REPLACED.'.
**09.03.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL EARTH FAULTS REMOVED.'.
**17.03.1993** Service defect: 'UN - GENERAL - OIL LEAK REPORTED NONE FOUND. ENGINE CLEANED, SLUDGE AND BILGE DRAINS CLEARED.'.
**24.03.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE REPLACED.'.
**24.03.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MARKER LIGHTS REPAIRED.'.
**01.04.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**08.04.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MC? REPLACED.'.
**08.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT SECURED.'.
**08.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**08.04.1993** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**19.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**19.04.1993** Service defect: 'UN - NO FAULT FOUND - THROTTLE AIR PRESSURE FAULT REPORTED. HOWEVER FAULT WAS ON OTHER LOCO Z1.'.
**30.04.1993** Service defect: 'TW - LUBRICATING SYSTEM - ENGINE OIL LEAK. TRACE ATTEMPTED. LEAK COULD NOT BE FOUND.'.
**07.05.1993** Service defect: 'TW - DYNAMIC BRAKE - DYNAMIC BRAKE FAULT ONLY 200 AMPS. LOCOMOTIVE NEEDED FOR SERVICE AND FAULT WILL BE LOOKED AT WHEN NEXT IN SHOP'.
**07.05.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED LOW BOOST PRESSURE. CHECKED AND TEST RUN TO ROCHERLEA. NO FAULT FOUND.'.
**19.05.1993** Service defect: 'TS - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**19.05.1993** Service defect: 'TS - LUBRICATING SYSTEM - OIL LEAKS REPAIRED.'.
**28.05.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAULT CHECKED ON TEST RUN. COULD NOT BE FIXED TODAY. WILL BE REPAIRED AT NEXT SERVICE WHICH IS DUE SOON.'.
**28.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**04.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION CARRIED OUT ON ALL AXLES.'.
**04.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE PADS CHECKED.'.
**04.06.1993** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED.'.
**04.06.1993** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOWS REPLACED.'.
**04.06.1993** Service defect: 'B - FUEL SYSTEM LINES - NUMBER 5 A FUEL PUMP HOSE REPLACED.'.
**04.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 2 FLANGE LUBE HOSES REPLACED.'.
**04.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED.'.
**04.06.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**04.06.1993** Service defect: 'B - RADIO REPAIR - PHONE BRACKET SECURED.'.
**10.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR BELT TENSIONER ADJUSTED.'.
**30.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 MISSING BRAKE BLOCK HANGER AND SPRING REPLACED. BRAKES ADJUSTED.'.
**06.07.1993** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - NEXT DAY 07/07/93 LOCO WAS BOOKED AS ONLY 200 AMPS FLAT OUT.R. BIRD REPLACED CARDS IN LOAD REG AT LOCO. NOW CHECKS OK.'.
**06.07.1993** Service defect: 'TS - NO FAULT FOUND - TRACK STOPPAGE DUE TO AMPS FAULT. CHECKED AND NO FAULT FOUND'.
**08.07.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - CURRENT REGULATING RELAY REPLACED.'.
**17.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - DRIVERS SIDE WINDSCREEN WIPER MOTOR REPLACED.'.
**22.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**22.07.1993** Service defect: 'UN - NO FAULT FOUND - FAULT ALARM REPORTED. CHECKED AND NO FAULT FOUND.'.
**31.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.

CHECKED FOR OIL LEAKS.'.

**16.08.1993** Service defect: 'UN - NO FAULT FOUND - CHECK.'.

**14.09.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**14.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**23.09.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**29.09.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**06.10.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**06.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.

**12.10.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED. FOOTPLATE CLEANED.'.

**19.10.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE REPLACED.'.

**12.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED.'.

**10.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**15.03.1994** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - SPRING STRAP REPLACED.'.

**15.03.1994** Service defect: 'UN - FUEL SYSTEM - BROKEN FUEL TANK BRACKETS AND BOLTS REPAIRED AND REPLACED.'.

**23.03.1994** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - VIGILANCE FAULT DUE TO WIRE OFF IN CIRCUIT. NEW SONALERT FITTED.'.

**23.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ANTI SLIP CHECKED.'.

**23.03.1994** Service defect: 'UN - GENERAL - OOTPLATE CLEANED.'.

**23.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDOW WIPER REPAIRED.'.

**23.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**19.04.1994** Service defect: 'UN - BOGIE - ALL AXLE OIL PADS REPLACED.'.

**19.04.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - NUMBER 1B TAPPET ADJUSTED.'.

**19.04.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED IN WATER PUMP IDLER DRIVE.'.

**05.05.1994** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.**********'.

**22.06.1994** Service defect: 'UN - LUBRICATING SYSTEM - REPORTED OIL LEAK. ONLY SMALL LEAKS FOUND. SUSPECT OIL FILLER LEFT OPEN.'.

**19.07.1994** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - #1 & #6 WHEELSETS REPLACED DUE TO SHARP FLANGES.'.

**19.07.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING IN FRONT ELECTRICAL CUBICLE REPAIRED.'.

**05.08.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC3 REPLACED.'.

**05.08.1994** Service defect: 'B - COOLING SYSTEM - 1 ELEMENT AND GASKET ON RADIATOR B BANK REPLACED. 1 WATER HOSE B BANK REPLACED.'.

**05.08.1994** Service defect: 'B - FUEL SYSTEM - MODIFIED FUEL FILLER PUT ON. FLANGE LUBE REPAIRS CARRIED OUT.'.

**05.08.1994** Service defect: 'B - LUBRICATING SYSTEM - 2 OIL HOSES ON B BANK REPLACED. 1 COMPRESSOR PLUG REPLACED.'.

**05.08.1994** Service defect: 'B - MAIN GENERATOR - MAIN GENERATOR CLEANED. RECTIFIER CUBICLE CLEANED.'.

**05.08.1994** Service defect: 'B - MECHANICAL EQUIPMENT - 4 FUEL TANK BOLTS REPLACED. WIPER MOTOR AND WIPER DRIVERS SIDE REPLACED.'.

**05.08.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - FRONT SAND PIPE REPLACED. 1 TRACTION MOTOR BELLOWS REPLACED.'.

**05.08.1994** Service defect: 'B - RADIO REPAIR - RADIO/PHONE POWER SUPPLY REPLACED.'.

**19.08.1994** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEAD LIGHT SWITCH REPLACED.'.

**19.08.1994** Service defect: 'UN - TRACTION MOTOR - NUMBER 3 TRACTION MOTOR REPLACED.**********

**27.08.1994** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE REPAIRS CARRIED OUT.'.

### Z 4

Details: locomotive 'Z 4 Q' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.8m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $397480
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L31
**Date Built:** 08.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1510kw
**BSG Code:** LTAZ

| | | | |
|---|---|---|---|
| Return to Service Date: | 07.08.1996 | | |
| Last Lift: | 15.09.1993 | | |
| A Service Mileage: | 49777 KM | A Service Date: | 30.09.1994 |
| B Service Mileage: | 172803 KM | B Service Date: | 16.05.1996 |
| C Service Mileage: | 630974 KM | C Service Date: | 23.06.1992 |
| F Service Mileage: | 0 KM | A Service Date: | 15.09.1993 |
| US Service Mileage: | 183479 KM | A Service Date: | 03.07.1996 |

**06.07.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD RENEWED & BRAKES ADJ.'.

**06.07.1989** Service defect: 'TS - NO FAULT FOUND - ANTI-SLIP VALVE & VIG.CHECKED 'OK'.'.

**12.07.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE VALVE RENEWED.'.

**14.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED AMPS 'OK'.'.
**27.07.1989** Service defect: 'TW - EXHAUST - (3)EXHAUST BELLOWS RENEWED.'.
**27.07.1989** Service defect: 'TW - FUEL SYSTEM PUMP - FUEL PUMP WASHER RENEWED.'.
**27.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**27.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**01.08.1989** Service defect: 'TS - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**01.08.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**02.08.1989** Service defect: 'UN - NO FAULT FOUND - ANTI-SLIP CHECKED 'OK'.'.
**15.11.1989** Service defect: 'UN - COOLING SYSTEM - REPL.WATER FILLER COCK .'.
**15.11.1989** Service defect: 'UN - MAIN GENERATOR - REPL.MAIN GENERATOR.'.
**17.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**28.11.1989** Service defect: 'TS - COOLING SYSTEM - WATER LEAK REPAIRED ON RAIL.'.
**28.11.1989** Service defect: 'TS - ELECTRICAL MIS. EDDY CURRENT CLUTCH - CLUTCH SLIP RINGS STONED & NEW BRUSHES FITTED.'.
**13.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 16-01-90.'.
**06.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 04-04-90 AT 1400HRS.'.
**06.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**23.04.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 19-04-90.AT 1600HRS.'.
**23.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 19-04-90.'.
**21.05.1990** Service defect: 'UN - COOLING SYSTEM RADIATOR - REPL.FAN SHAFT SPLINE'.
**21.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 14-05-90 AT 1400HRS.'.
**21.05.1990** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED FOR BOOST 'OK'.'.
**30.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON THE 30-05-1990 AT 1030HRS.'.
**30.07.1990** Service defect: 'C - CONTACTOR MISCELLANEOUS - AUX.CONTACTS REPL.ON M.C.2,M.C.5,M.C.6.'.
**30.07.1990** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**30.07.1990** Service defect: 'C - GENERAL - *SPEEDO ON LOCO READ 230757K/M.'.
**30.07.1990** Service defect: 'C - MECHANICAL MAINTENANCE - SOUND WARNING - REPL.FIRE ALARM BELL.'.
**30.07.1990** Service defect: 'C - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**30.07.1990** Service defect: 'C - TRACTION MOTOR FLASHOVER - FLASHOVER ON NO.2&5 MOTORS (REPAIRED BRUSH BOXES)'.
**29.10.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - 8 M.C. CONTACTS REPLACED'.
**29.10.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 1 T/M COVER REPLACED'.
**29.10.1990** Service defect: 'B - GENERAL - 243998KM.ON LOCO SPEEDO'.
**29.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT - 2 EXHAUST BELLOWS REPLACED'.
**29.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**29.10.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**22.02.1991** Service defect: 'B - BOGIE - SUSPENSION BEARING BOLT REPLACED'.
**22.02.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**22.02.1991** Service defect: 'B - FUEL SYSTEM - FUEL LEAK REPAIRED'.
**22.02.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 265026KM.'.
**22.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 4 EXHAUST BELLOWS REPLACED,PAPER FILTERS IN DOORS REPLACED SADDLE AND PIVOT REPLACED'.
**22.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPLACED,SAND TRAP REPAIRED'.
**22.02.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BLOCKS REPLACED,BRAKE CYLINDER SUPPORT BOLT REPLACED'.
**22.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**22.05.1991** Service defect: 'B - COOLING SYSTEM - WATER FITTING RADIATOR COMPARTMENT CHANGED'.
**22.05.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 5 LAMPS REPLACED,MARKER LIGHT REPAIRED DUE TO FAULTY BATTEN HOLDER,CONTROL PANEL CLEANED WITH WHITE SPIRITS'.
**22.05.1991** Service defect: 'B - FUEL SYSTEM LINES - NO.3 H.P. PIPE REPLACED [B| BANK'.
**22.05.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 281229KM.'.
**22.05.1991** Service defect: 'B - LUBRICATING SYSTEM - NO.4 OIL PRESSURE PIPE REPLACED [A| BANK'.
**22.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 3 EXHAUST BELLOWS REPLACED,FRONT SPLINE SHAFT REPLACED'.
**22.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**22.05.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**31.05.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 282793 KM.'.
**31.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - AIR LEAK REPAIRED,BENT STEP REPAIRED'.
**03.06.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - NO FAULT FOUND WITH VOLAGE REGULATOR'.
**03.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 282885KM.'.
**05.06.1991** Service defect: 'UN - EXHAUST - EXHAUST REPAIRED WHERE IT JOINS TURBOCHARGER'.
**05.06.1991** Service defect: 'UN - TRACTION MOTOR EARTH - CABLE FOUND TO BE RUBBED THROUGH ON NO.5 TRACTION MOTOR REPAIRS CARRIED OUT & TESTED O.K.'.
**29.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED'.

**13.07.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE TESTED OK.'.
**13.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIRE WARNING OPERATING DUE TO FAULTY JUMPER'.
**13.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED DUE TO WATER IN SUMP'.
**13.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**13.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - WATER LEAK IN WIND-SCREEN REPAIRED'.
**27.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER SWITCH REPLACED'.
**27.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**10.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - D/S FRONT HEATER SWITCH REPLACED D/S CAB LIGHT TUBE REPLACED'.
**10.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**21.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**21.08.1991** Service defect: 'TW - NO FAULT FOUND - NO FAULT FOUND WITH WHEELSLIP'.
**24.08.1991** Service defect: 'UN - GENERAL - LOCO CHECKED OK.'.
**31.08.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER PIPE BELOW FLY WHEEL REPAIRED'.
**10.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - ANTI SLIP VALVE REPLACED'.
**21.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT REFASTENED'.
**21.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - FUEL GAUGE REPAIRED'.
**26.09.1991** Service defect: 'TS - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTS ADJUSTED'.
**26.09.1991** Service defect: 'TS - GENERAL - *** A SERVICE COMPLETE ***'.
**26.09.1991** Service defect: 'TS - NO FAULT FOUND - NO WATER LEAKS FOUND'.
**28.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK.,NO FAULTS FOUND'.
**18.10.1991** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK IN RADIATOR COMPARTMENT REPAIRED'.
**18.10.1991** Service defect: 'TS - GENERAL - ** A SERVICE COMPLETE **'.
**31.10.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - M.4.CONTACTOR REPAIRED'.
**31.10.1991** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH CLEANED'.
**31.10.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - MAIN GENERATOR BRUSHES REPLACED'.
**31.10.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - TRACTION MOTOR BRUSHES REPLACED'.
**20.11.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - DYNAMIC BRAKE REPAIRED'.
**21.11.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**09.05.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPLACED.'.
**09.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR VIBRATION, NO FAULT FOUND.'.
**15.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.
**15.05.1992** Service defect: 'UN - RADIO REPAIR - PHONE FAULT REPAIRED. RADIO FAULT CAUSED BY POWER SUPPLY OVER VOLTAGE.'.
**27.05.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.05.1992** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL EARTH FAULT CAUSED BY BURNT COIL IN ANTI SLIP VALVE SHORTING TO EARTH. THIS WAS THE REASON THE LOCO WAS GOING IN'.
**23.06.1992** Service defect: 'C - EXHAUST - FOUR EXHAUST BELLOW GASKETS CHANGED.'.
**23.06.1992** Service defect: 'C - MECHANICAL EQUIPMENT - ONE FLANGE LUBE PIPE RENEWED.'.
**23.06.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - TWO SAND HOSES RENEWED.'.
**23.06.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - TWO BRAKE BLOCKS RENEWED AND BRAKES ADJUSTED.'.
**24.08.1992** Service defect: 'UN - GENERAL - CAB MODIFICATIONS COMPLETED. CAB FLOOR RENEWED, NEW SEATS.'.
**26.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WHISTLE CHORD REPLACED.'.
**18.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WATER TEMPERATURE SWITCH REWIRED.'.
**29.09.1992** Service defect: 'UN - NO FAULT FOUND - CHECKED FOR POSSIBLE DAMAGE FOLLOWING DERAILMENT. NO DAMAGE FOUND.'.
**05.10.1992** Service defect: 'B - MAIN GENERATOR - FLASHOVER IN MAIN GENERATOR. F SERVICE TO BE CARRIED OUT ON THIS LOCOMOTIVE.'.
**05.10.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**15.09.1993** Service defect: 'F - NO FAULT FOUND - ******F SERVICE COMPLETED. ENTERED WORKSHOPS 05/10/92*******'.
**07.10.1993** Service defect: 'TS - TRACTION MOTOR EARTH - TRACTION MOTOR NUMBER 4 REPLACED. OVERLOADS ON NUMBER 3 & 4 REPAIRED.'.
**11.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO DRIVE UNIT REPLACED.'.
**11.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WIPERS REPAIRED.'.
**19.10.1993** Service defect: 'UN - BROKEN PIPE - LEAKING AIR PIPE REPLACED.'.
**19.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**01.12.1993** Service defect: 'TS - MECHANICAL EQUIPMENT COUPLER - COUPLER REPAIRS CARRIED OUT.'.
**01.12.1993** Service defect: 'TS - TRACTION MOTOR - TRACTION MOTOR NUMBER 3 REPLACED.'.
**01.12.1993** Service defect: 'TS - VIGILANCE - ELECTRICAL REPAIRS CARRIED OUT ON VIGILANCE EQUIPMENT.'.
**02.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.

**11.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER REPLACED.'.
**18.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 11 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**25.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 2 COMPRESSOR DIODES REPLACED.'.
**16.03.1994** Service defect: 'UN - FUEL SYSTEM - FUEL TANK SUPPORT BRACKETS REPAIRED.'.
**24.03.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT CLEARED IN CAB SAND PEDAL WIRING.'.
**25.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**18.04.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL MC CONTACTS CLEANED.'.
**18.04.1994** Service defect: 'B - COOLING SYSTEM - ENGINE PRESSURISING FAN BELT REPLACED. NUMBER 4 TRACTION MOTOR BELLOWS REPLACED.'.
**18.04.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 3 STEP LIGHT GLOBES AND ONE LENS REPLACED.'.
**18.04.1994** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 3A EXHAUST VALVE CLEARANCE RESET. TIMING CHAIN ADJUSTED.'.
**21.04.1994** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOVERNOR THROTTLE PIPE REPAIRED.'.
**22.04.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**04.05.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REVERSER REPAIRED. HOT PLATE KNOB REPLACED.'.
**26.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**26.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJ.'.
**08.07.1994** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - ENGINE OIL PRESSURE PIPE TO GOVERNOR REPLACED.'.
**30.08.1994** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK REPAIRED IN RADIATOR COMPARTMENT.'.
**30.08.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CLOCK REPAIRED.'.
**30.08.1994** Service defect: 'UN - OTHER BODY REPAIRS - BODY REPAIRS TO ROOF OF CAB.'.

## 2.53 Locomotive classification starting with 'ZA'

**ZA 1**

Details: locomotive 'ZA 1 Y' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $464310
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L32
**Date Built:** 10.07.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1900kw
**BSG Code:** LTAW

| | | | |
|---|---|---|---|
| Return to Service Date: | 29.08.1996 | | |
| Last Lift: | 18.11.1982 | | |
| A Service Mileage: | 627744 KM | A Service Date: | 11.08.1994 |
| B Service Mileage: | 647159 KM | B Service Date: | 13.03.1996 |
| C Service Mileage: | 627745 KM | C Service Date: | 13.04.1995 |
| F Service Mileage: | 0 KM | A Service Date: | 18.11.1982 |
| US Service Mileage: | 659464 KM | A Service Date: | 21.08.1996 |

**06.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.*SPEEDO READ 055113K/M ON LOCO.'.
**10.10.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED BOOST 'OK'.'.
**17.10.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 056009K/M ON LOCO.'.
**17.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - SEVERAL OIL LEAKS REPAIRED.'.
**17.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**17.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO LIGHT REPL.'.
**17.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - DOOR SEALS REPAIRED.'.
**20.10.1989** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - REPL.LOAD REGULATOR.'.
**20.10.1989** Service defect: 'UN - NO FAULT FOUND - DYNAMIC BRAKE TESTED 'OK'.'.
**24.10.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE TANK REPL.'.
**24.10.1989** Service defect: 'UN - GENERAL - CLEANED FOOT PLATE.'.
**24.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**24.10.1989** Service defect: 'UN - NO FAULT FOUND - RADIO & F/ALARM TESTED 'OK'.'.
**27.11.1989** Service defect: 'CA - BODY REPAIRS - ACCIDENT - FRONT & REAR HEADSTOCK & COW CATCHER REPAIRED.(DERAILMENT)'.
**30.11.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE ADJ.'.
**30.11.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**06.12.1989** Service defect: 'B - EXHAUST - BELLOW REPL.'.
**14.12.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**15.12.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 22-12-89.'.
**10.04.1990** Service defect: 'B - COOLING SYSTEM - WATER HOSE TIGHTENED.'.

**10.04.1990** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - SECURED LOOSE WIRE ON POTENTIOMETER.'.
**10.04.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - AR RELAY REPAIRED.'.
**10.04.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**10.04.1990** Service defect: 'B - EXHAUST - BELLOW RENEWED.'.
**10.04.1990** Service defect: 'B - FUEL SYSTEM PUMP - NO.1 PUMP 'A'BANK RENEWED.'.
**10.04.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 06-04-90.'.
**10.04.1990** Service defect: 'B - OTHER BODY REPAIRS - ROOF (MODIFIED)'.
**10.04.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (10)BRUSHES REPL.'.
**27.04.1990** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 097732K/M.'.
**27.04.1990** Service defect: 'UN - RADIO REPAIR - REPL. FAULTY RADIO.'.
**08.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED (FLAT BATTERIES)'.
**08.05.1990** Service defect: 'UN - GENERAL - *SPEEDO READ 081690K/M.'.
**08.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**08.05.1990** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED.'.
**21.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES (JUMP STARTED)'.
**21.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 14-05-90 AT 0900HRS'.
**24.05.1990** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP.'.
**11.07.1990** Service defect: 'C - GENERAL - *SPEEDO ON LOCO READ 1093114K/M.'.
**01.10.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - SHARP WHEEL ON NO.5 'A'SIDE.(DOWN ON THE GAUGE)'.
**01.10.1990** Service defect: 'B - ENGINE WATER LEAK - WATER RAIL TIGHTENED ON 'B'BANK.'.
**07.01.1991** Service defect: 'UN - .'.
**12.02.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**12.02.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 LAMPS REPLACED'.
**12.02.1991** Service defect: 'B - FUEL SYSTEM PUMP - 3 PUMP WASHERS REPLACED'.
**12.02.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 129198KM.'.
**12.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - H.P.FUEL PIPE REPLACED,BLOWER FILTER REPAIRED,GOV.NIPPLES PUT ON'.
**12.02.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 8 T/M BRUSHES REPLACED'.
**31.05.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - MARKER LIGHT GLOBES REPLACED'.
**31.05.1991** Service defect: 'TW - GENERAL - SPEEDO ON LOCO READ 144123KM. 'A'SERVICE'.
**31.05.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - OIL ON FOOT PLATE CLEANED'.
**15.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL ON FOOTPLATE REMOVED'.
**22.06.1991** Service defect: 'UN - NO FAULT FOUND - NO BOOKINGS ,CHECKED OK.'.
**06.07.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - R.F.7 & R.F.8 RELAYS CLEANED,RECTIFIER FAILURE TESTED OK.'.
**12.07.1991** Service defect: 'UN - RADIO REPAIR - WIRING TO RADIO PLUG REPAIRED'.
**16.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PRIMING TIMER ADJUSTED RECTIFIER FAILURE BUTTON RESET'.
**17.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT TUBE REPLACED'.
**18.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER SWITCH REPAIRED'.
**18.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - F/S DOOR RESEALED'.
**02.08.1991** Service defect: 'UN - EXHAUST - NO.1 'B' BANK EXHAUST GASKET REPLACED'.
**02.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER REPLACED'.
**30.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE & SPEEDO READ 159977KM. ****'.
**30.08.1991** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**31.08.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**31.08.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED'.
**02.09.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**01.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - CAB MODIFICATIONS COMPLETE'.
**16.10.1991** Service defect: 'TW - FUEL SYSTEM LINES - HIGH PRESSURE PIPE NO.2 'B' BANK REPLACED'.
**16.10.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETE **'.
**17.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**22.10.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - SNAP SWITCH ON T.D.R.1 REPLACED A/C NOT PRIMING'.
**13.11.1991** Service defect: 'UN - NO FAULT FOUND - RECTIFIER FAILURE TESTED OK.'.
**19.11.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**20.11.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**26.11.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.
**09.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO INSTALLATION.'.
**19.05.1992** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - HEAD LIGHT SWITCH REPLACED.'.
**19.05.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - DAMAGED MAIN RESERVOIR BRAKE PIPE REPLACED. INDEPENDENT BRAKE HEAD REPLACED.'.
**19.05.1992** Service defect: 'TW - RADIO REPAIR - UHF RADIO BOOKED UP AS FAULTY. NO FAULT FOUND.'.
**23.05.1992** Service defect: 'TS - GENERAL - OIL ON FOOTPLATE CLEANED.'.

**23.05.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.05.1992** Service defect: 'TS - RADIO REPAIR - POWER TO RADIO FIX.'.
**28.05.1992** Service defect: 'TS - BROKEN PIPE - BROKEN FLANGE LUBE PIPE REPLACED.'.
**28.05.1992** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - MISSING SAND PIPES REPLACED. WET SAND REMOVED AND REPLACED'.
**04.06.1992** Service defect: 'TS - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**15.06.1992** Service defect: 'TW - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED, STALL CURRENT ADJUSTED.'.
**15.06.1992** Service defect: 'TW - NO FAULT FOUND - DYNAMIC BRAKE REPORTED AS FAULTY. NO FAULT FOUND.'.
**06.07.1992** Service defect: 'TS - AUXILLARY MACHINES - AUXILLIARY ALTERNATOR CHANGED.'.
**06.07.1992** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CONTROL EARTH FAULTS RECTIFIED.'.
**06.07.1992** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED.'.
**08.07.1992** Service defect: 'TS - NO FAULT FOUND - PC2 POWER INTERLOCK RELAY THOUGHT TO BE FAULTY. TESTED AND NO FAULT FOUND'.
**09.07.1992** Service defect: 'UN - NO FAULT FOUND - JUMPING FAULT IN FIRST POWER. NO FAULT FOUND.'.
**21.07.1992** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT DROPPING RESISTANCE REPLACED.'.
**21.07.1992** Service defect: 'TS - MAIN GENERATOR - EXCITATION FIELD RESISTANCE CHANGED.'.
**23.07.1992** Service defect: 'UN - LUBRICATING SYSTEM - LEAK IN TURBO LUBE OIL DRAIN PIPE REPAIRED.'.
**21.08.1992** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - WATER PRESSURE SWITCH REWIRED.'.
**21.08.1992** Service defect: 'C - ELECTRICAL MISC. VOLTAGE REGULATOR - NEW VOLTAGE REGULATOR INSTALLED.'.
**21.08.1992** Service defect: 'C - ENGINE WATER LEAK - WATER LEAK ON WATER RAIL REPAIRED.'.
**21.08.1992** Service defect: 'C - EXHAUST - ONE EXHAUST BELLOWS REPLACED.'.
**21.08.1992** Service defect: 'C - MECHANICAL EQUIPMENT - WICKS IN OIL BOXES CHECKED.'.
**21.08.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE. ONE SAND HOSE REPLACED.'.
**21.08.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS CHANGED AND ADJUSTED. AIR LINE TO BRAKE CYLNDREPAIRED. INDEPENDANT BRAKE HEAD REPAIRED.'.
**25.08.1992** Service defect: 'TS - NO FAULT FOUND - EARTH LINK REMOVED #2 & #5 TRACTION MOTORS ISOLATED. NO FAULT FOUND.'.
**28.08.1992** Service defect: 'UN - NO FAULT FOUND - GOVERNOR BUTTON REPORTED POPPING OUT. NO FAULT FOUND.'.
**08.09.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTOR FITTED TO ENERGISE ENGINE RUN SOLENOID WHILE PRIMING.'.
**08.09.1992** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - NUMBER 5 WIRE FELL OFF TERMINAL STRIP. REFASTENED IN PLACE.'.
**08.09.1992** Service defect: 'UN - ENGINE GOVERNOR - AIR LOCK REMOVED IN LUBE PRIMING PIPE.'.
**10.09.1992** Service defect: 'TW - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.
**19.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RECTIFIER PANEL CLEANED.'.
**19.09.1992** Service defect: 'UN - STARTER MOTOR - REPAIRES CARRIED OUT ON B SIDE STARTER MOTOR.'.
**22.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK IN INDEPENDANT BRAKE REPAIRED.'.
**01.10.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.
**14.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**16.10.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY ELECTROLYTE TOPPED UP.'.
**16.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**22.10.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.
**05.11.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BROKEN WIRE TO GAUGE LIGHTS REPAIRED.'.
**05.11.1992** Service defect: 'UN - OTHER BODY REPAIRS - BENT STEP REPAIRED.'.
**12.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR EP VALVE REPLACED.'.
**17.11.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - STARTER RELAY NUMBER 2 REPLACED.'.
**17.11.1992** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - NO AMPS FAULT TRACED TO LOOSE WIRE IN TERMINAL BOX.'.
**19.11.1992** Service defect: 'TW - BOGIE MAINTENANCE - SPRINGS - 2 PIVOTS AND 2 PINTLES REPLACED ON LEADING BOGIE.'.
**28.11.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BROKEN WIRE TO INSTRUMENT LIGHTS REPAIRED.'.
**28.11.1992** Service defect: 'UN - OTHER BODY REPAIRS - MISSING SECTION OF ROOF REPLACED. CAB DRAUGHTS STOPPED.'.
**08.12.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - 7 AXLE BOX WICKS REPLACED.'.
**08.12.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 4 LIGHT GLOBES REPLACED. LUBE OIL PUMP COMMUTATOR SKIMMED.'.
**08.12.1992** Service defect: 'B - EXHAUST - EXHAUST BELLOW GASKETS REPLACED.'.
**08.12.1992** Service defect: 'B - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER BELLOWS REPLACED. OIL TRIAL RESERVOIR TANK REMOVED.'.
**10.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR VALVES REPAIRED.'.
**24.12.1992** Service defect: 'TW - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.'.
**15.01.1993** Service defect: 'TW - COOLING SYSTEM - GAUGE GLASS REPAIRED.'.
**10.02.1993** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE REPLACED.'.

**05.03.1993** Service defect: 'TS - NO FAULT FOUND - HEADLIGHT SWITCH CHECKED AND NO FAULT FOUND. FAULT OCCURRED WHEN COUPLED TO ZA5. FAULT WAS ON THAT LOCO.'.
**13.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WHISTLE CORD REPLACED.'.
**13.03.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED FAULT WITH PC2. CHECKED AND NO FAULT FOUND.'.
**06.04.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**22.04.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE PADS CHECKED.'.
**22.04.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**22.04.1993** Service defect: 'B - EXHAUST - EXHAUST BELLOWS REPLACED. EXHAUST CLAMP TIGHTENED.'.
**22.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - BOTH CENTRE COUPLINGS REPLACED. REAR DRAUGHT BLOCK REPLACED.'.
**22.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**22.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**08.05.1993** Service defect: 'UN - NO FAULT FOUND - CHECKED AND NO FAULTS.'.
**17.05.1993** Service defect: 'TW - BOGIE MAINTENANCE - SPRINGS - PIVOTS AND PINTELS REPLACED.'.
**24.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WIPER REPAIRS CARRIED OUT.'.
**24.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**05.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HOTPLATE REPAIRED.'.
**05.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - DRIVERS SIDE SPEEDOMETER REPLACED.'.
**10.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK AT MAIN RESERVOIR REPAIRED.'.
**17.06.1993** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**17.06.1993** Service defect: 'TW - ENGINE GOVERNOR MECHANICAL - GOVERNOR THROTTLE AIR PRESSURE ADJUSTED.'.
**22.06.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.
**28.06.1993** Service defect: 'UN - ENGINE - OVERSPEED TRIP REPAIRED.'.
**30.06.1993** Service defect: 'TS - BROKEN PIPE - JOINT ON AIR PIPE BETWEEN COMPRESSOR AND MAIN RESERVOIR REPAIRED. FITTERS TRAVELLED TO WESTERN JN TO REPAIR FAULT.'.
**02.07.1993** Service defect: 'UN - BROKEN PIPE - MAIN RESERVOIR PIPE SECURED. AIR PIPE COCKS SECURED.'.
**02.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED. CAB SEAT REPAIRED.'.
**13.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS FREED UP.'.
**13.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - BENT STEP REPAIRED. CAB DRAUGHTS REPAIRED.'.
**20.07.1993** Service defect: 'TW - GENERAL - FIRE EXTINGUISHER REPLACED.'.
**20.07.1993** Service defect: 'TW - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**22.07.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE PADS CHECKED.'.
**22.07.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC1 CONTACTS REPLACED. COMPRESSOR GOVERNOR CONTACTS CLEANED.'.
**22.07.1993** Service defect: 'B - COOLING SYSTEM RADIATOR - 2 RADIATOR ELEMENTS REPLACED ON A BANK.'.
**22.07.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO DRAINS CLEARED.'.
**22.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED. WATER RAIL HOSE CLAMPS TIGHTENED.'.
**07.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR HOSES REPLACED.'.
**16.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING UNDER CAB REPLACED.'.
**20.09.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WOULD NOT COUPLE DUE TO ELECTRICAL FAULT. FURTHER INVESTIGATOF FAULT TO BE CARRIED OUT AT LOCO BEFORE ENTERING SERVICE.'.
**24.09.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED.'.
**30.09.1993** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - FUSE REPLACED IN VOLTAGE REGULATOR.'.
**03.02.1994** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED ON B BANK WATER RAIL.'.
**03.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**15.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED.'.
**26.02.1994** Service defect: 'UN - STARTER MOTOR - STARTER MOTORS SHIMMED.'.
**14.03.1994** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**14.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 9 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**16.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**12.05.1994** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - 1LR, PC1, PC2, AND AR RELAYS REPLACED. REAR HEADLIGHT WIRING REPLACED AT PLUG.'.
**12.05.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FUEL PRIMING, RECTIFIER FAIL, LOW WATER AND BOOST DETECTION MODIFICATIONS CARRIED OUT. DYNAMIC BRAKE COWLING MOD.*******'.
**12.05.1994** Service defect: 'B - FUEL SYSTEM - FUEL TANK

LEAK REPAIRED. #6B HEAD DRAIN CLEARED.'.
**12.05.1994** Service defect: 'B - MECHANICAL EQUIPMENT - NEW CAB SEATS INSTALLED.****** COMPRESSOR BELT AND FLANGE LUBE TANK REPLACED.'.
**12.05.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**28.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJ'.
**30.05.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT CLEARED.'.
**24.06.1994** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR WATER LEAK REPAIRED.'.
**23.07.1994** Service defect: 'TS - BROKEN PIPE - TRACK STOPPAGE DUE TO AIR LEAK AND WOULD NOT AMP. MAIN RESERVOIR LEAK REPAIRED.'.
**23.07.1994** Service defect: 'TS - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED.**********'.
**22.08.1994** Service defect: 'UN - NO FAULT FOUND - BOOKED IN FOR TRACTION MOTOR SUSPENSION BEARING REPLACEMENT TO BE DONE AT C SERVICE THIS WEEK.'.
**02.08.1995** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - MCS4 REPLACED.'.

**ZA 2**

Details: locomotive 'ZA 2 A' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $464310
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L32
**Date Built:** 25.07.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1900kw
**Remarks:** STORED 21.06.95
**BSG Code:** LTAW

| | | | |
|---|---|---|---|
| Return to Service Date: | 21.06.1995 | | |
| Last Lift: | 10.07.1985 | | |
| SW Service Mileage: | 502750 KM | SW Service Date: | 03.10.1992 |
| A Service Mileage: | 592077 KM | A Service Date: | 26.05.1994 |
| B Service Mileage: | 639296 KM | B Service Date: | 05.06.1995 |
| C Service Mileage: | 540828 KM | C Service Date: | 30.06.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 10.07.1985 |
| US Service Mileage: | 639300 KM | A Service Date: | 21.06.1995 |

**21.07.1989** Service defect: 'UN - NO FAULT FOUND - TESTED FIELD DIVERSION 'OK'.'.
**02.08.1989** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR RENEWED.'.
**15.09.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE.PIPE REPAIRED.'.
**15.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - CENTRE COUPLER REPAIRED.'.
**15.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**21.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**28.09.1989** Service defect: 'UN - COOLING SYSTEM - SEVERAL WATER LEAKS REPAIRED.'.
**09.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**09.10.1989** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - HOTPLATE SWITCH REPL.'.
**09.10.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS REPL. & BRAKES ADJ.'.
**09.10.1989** Service defect: 'C - TRACTION MOTOR - (6)FASTENING PINS ON COVERS REPL.'.
**09.10.1989** Service defect: 'C - TRACTION MOTOR BRUSHES - (3)BRUSHES REPL.'.
**11.10.1989** Service defect: 'UN - GENERAL - CLEANED OIL ON FOOTPLATE.'.
**17.10.1989** Service defect: 'UN - COOLING SYSTEM WATER PUMP - REPAIRED WATER PIPE.'.
**17.10.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**17.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL PIPE REPAIRED (BROKEN)'.
**24.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - REPAIRED OIL LEAKS.'.
**24.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**13.11.1989** Service defect: 'CA - BODY REPAIRS - ACCIDENT - STEP,C/COUPLING,AIR PIPES & REAR END REPAIRED.(DERAILMENT)'.
**27.11.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**30.11.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**30.11.1989** Service defect: 'UN - TRACTION MOTOR - REPL T/M BELLOW CLAMP.(MISSING)'.
**07.12.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - JUMPER SOCKET LID REPL.'.
**07.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**07.12.1989** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.
**15.12.1989** Service defect: 'UN - NO FAULT FOUND - TESTED FOR EARTH FAULT 'OK'.'.
**12.03.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - F/LUBE NOZZLE RENEWED.'.
**12.03.1990** Service defect: 'B - ENGINE WATER LEAK - WATER LEAKS REPAIRED.'.
**12.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 24-01-90.SPEEDO READ 121209K/M ON LOCO.'.
**03.04.1990** Service defect: 'UN - RADIO REPAIR - STATIC CONVERTER IN RADIO REPLACED.'.
**10.04.1990** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP.'.
**10.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDOW WIPER MADE WORKABLE.'.
**12.04.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**27.04.1990** Service defect: 'B - COOLING SYSTEM - REPAIRED WATER LEAKS.'.
**10.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 08-05-1990. AT 2000HRS.'.
**21.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED

OUT ON 14-05-90 AT 1200HRS.'.
**22.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJUSTED.'.
**23.07.1990** Service defect: 'B - BATTERY MAINTENANCE - REPAIRED FAULTY TERMINAL.'.
**23.07.1990** Service defect: 'B - DYNAMIC BRAKE - REPAIRED D/BRAKE.'.
**23.07.1990** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - REPL.BRUSHES & CLEANED.'.
**23.07.1990** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - REPL.VOLTAGE REGULATOR.'.
**23.07.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.CONTROLLER LIGHT & RESISTANCE INDICATOR LIGHT.'.
**23.07.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 149047K/M.'.
**23.07.1990** Service defect: 'B - MECHANICAL EQUIPMENT - REPAIRED FRONT W/WIPER.'.
**23.07.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL.& ADJ.'.
**23.07.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**17.10.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 162837K/M.'.
**20.03.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**20.03.1991** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK REPAIRED'.
**20.03.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 184536KM.'.
**20.03.1991** Service defect: 'B - MECHANICAL EQUIPMENT - DRIBBLE PIPE REPLACED'.
**20.03.1991** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - COUPLINGS STRIKER PLATES REPAIRED'.
**20.03.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BLOCK REPLACED'.
**08.07.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**08.07.1991** Service defect: 'C - ELECTRICAL MISCELLANEOUS - VOLTMETER REPAIRED,10 LIGHTS REPLACED,EARTH FAULT ON FRONT MARKER LIGHT CLEARED'.
**08.07.1991** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SPLINE SHAFT RUBBERS RENEWED'.
**08.07.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**08.07.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT BRAKE HEAD CHANGED ON DRIVERS SIDE'.
**08.07.1991** Service defect: 'C - OTHER BODY REPAIRS - NEW FLOOR FITTED'.
**08.07.1991** Service defect: 'C - RADIO REPAIR - U.H.F.RADIO FITTED & CELLULAR PHONE INSTALLED'.
**18.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**18.07.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED'.
**18.07.1991** Service defect: 'TW - OTHER BODY REPAIRS - DOORS RESEALED TO STOP DRAUGHTS'.
**31.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - OIL WASHED OFF FOOTPLATE'.
**02.08.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH FIELD DIVERSION'.
**06.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO RESISTANCE LAMP REPLACED A/C SPEEDO NOT WORKING'.
**07.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED & TESTED OK.'.
**10.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**10.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED'.
**20.08.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - M.C.6 REPLACED'.
**20.08.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED TO CALTEX MULTIGRADE'.
**21.08.1991** Service defect: 'TS - NO FAULT FOUND - LOCO TESTED OK. COUPLED TO Z.2,CHECKED FOR EARTHS OK.'.
**23.08.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP'.
**27.08.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - E.F.C.1 BRAID REPLACED,M.C.1 REPAIRED'.
**29.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - LEAKING MAIN RESERVOIR AIR PIPE REPAIRED'.
**30.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**10.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**12.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - ANTI SLIP VALVE CLEANED & TESTED OK.'.
**12.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**20.09.1991** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK IN FUEL TANK TO BE REPAIRED LATER'.
**26.09.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.
**26.09.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - HOLE IN FUEL TANK REPAIRED'.
**28.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK.'.
**10.10.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPAIRED'.
**10.10.1991** Service defect: 'TS - WHEELSLIP - WHEELSLIP RELAYS RESET'.
**18.10.1991** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - EARTHS IN STARTING CIRCIUT CLEARED'.
**18.10.1991** Service defect: 'TS - STARTER MOTOR - D/S STARTER MOTOR REPLACED'.
**06.11.1991** Service defect: 'UN - OTHER BODY REPAIRS - F/S WINDOW REPLACED'.
**07.11.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**20.11.1991** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - RELAYS C.R.R,O.P.R & H.B.R OVERHAULED'.
**20.11.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 10 GLOBES REPLACED'.
**20.11.1991** Service defect: 'B - ENGINE CYLINDER HEADS - TAPPETS RESET ON NO.3,NO.2 & NO.4 HEADS ON 'B' BANK'.
**20.11.1991** Service defect: 'B - LUBRICATING SYSTEM - NO.1 OIL FEED PIPE TO ROCKER GEAR REPLACED ON 'B' BANK'.

**20.11.1991** Service defect: 'B - RADIO REPAIR - RADIO REPLACED'.
**20.11.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - BRUSHES REPLACED IN TRACTION MOTORS'.
**21.11.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**25.11.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**09.05.1992** Service defect: 'UN - RADIO REPAIR - PHONE REPAIR.'.
**23.05.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATES CLEANED.'.
**23.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE ROOM DOORS WOULD NOT OPEN.'.
**28.05.1992** Service defect: 'UN - LUBRICATING SYSTEM - LUBRICATION PIPE FIX.'.
**28.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPLACED AND WORKING.'.
**04.06.1992** Service defect: 'TS - CONTACTOR MISCELLANEOUS - MAIN CONTACTORS #5 & #6 REPLACED BY M. TUNKS LOCO.'.
**15.06.1992** Service defect: 'B - COOLING SYSTEM - RUBBERS RENEWED ON A BANK WATER RAIL.'.
**15.06.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE HOSES RENEWED.'.
**15.06.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - FOUR BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.
**15.06.1992** Service defect: 'B - OTHER BODY REPAIRS - ROOF REPAIRED.'.
**24.06.1992** Service defect: 'UN - LUBRICATING SYSTEM - LOW OIL LEVEL IN LUBRICATING OIL TOP UP TANK.'.
**08.07.1992** Service defect: 'TW - NO FAULT FOUND - EARTH LINK REMOVED. TRACTION MOTORS MEGGERED. NO FAULT FOUND'.
**17.07.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY CHANGED. TRANCIEVER REPROGRAMMED.'.
**01.08.1992** Service defect: 'UN - LUBRICATING SYSTEM - MULTIGRADE ENGINE OIL ADDED TO TANK.'.
**01.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**05.08.1992** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - INSTRUMENT PANEL LAMPS REPLACED.'.
**11.08.1992** Service defect: 'SW - ELECT. MISC. - GAUGES & INSTRUMENTS - FLOURESCENT STRIP LIGHT MODIFICATIONS CARRIED OUT ON GAUGES.'.
**13.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - WATER LEAKS AROUND WINDOWS AND AERIAL PLUGGED.'.
**01.09.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY FILTER REPLACED.'.
**01.09.1992** Service defect: 'UN - STARTER MOTOR - B SIDE STARTER MOTOR REPLACED DUE TO EARTH FAULT.'.
**18.09.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - FIREMANS SIDE CAB HEATER REPAIRED.'.
**18.09.1992** Service defect: 'TW - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.
**18.09.1992** Service defect: 'TW - RADIO REPAIR - PHONE POWER SUPPLY REPLACED.'.
**26.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.10.1992** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - ENGINE RUN SOLENOID MODIFICATION CARRIED OUT. LOW GOVERNOR OIL CUTOUT MODIFICATION CARRIED OUT.'.
**13.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - NUMBER 1 TRACTION MOTOR BLOWER BEARINGS REPLACED.'.
**22.10.1992** Service defect: 'TW - ENGINE - NUMBER 1 A BANK FUEL PUMP FOLLOWER O RING REPLACED.'.
**28.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - LEADING TRACTION MOTOR BLOWER REPLACED.'.
**28.10.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED RECTIFIER FAIL FALSE ALARM. NO FAULT FOUND.'.
**12.11.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - NUMBER 1 WHEEL SET REPLACED.'.
**12.11.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**12.11.1992** Service defect: 'B - FUEL SYSTEM PUMP - FUEL PUMP DELIVERY WASHER REPLACED ON B BANK PUMP NUMBER ?'.
**12.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE OIL TANK REPAIRED. PONGLASS FILTERS REPAIRED AND CLEANED.'.
**12.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**12.11.1992** Service defect: 'B - NO FAULT FOUND - ELECTRICAL SERVICE SHEET HAD NO REPORT OF PARTS RENEWAL OR OTHER ATTENTION REQUIRED.'.
**20.11.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**07.12.1992** Service defect: 'UN - LUBRICATING SYSTEM - LEAKING OIL PIPE WELDED.'.
**18.12.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - BILGE DRAIN UNBLOCKED. OIL WASHED OFF FOOTPLATE.'.
**21.12.1992** Service defect: 'UN - RADIO REPAIR - PHONE/TRANSCEIVER BRACKET WELDED.'.
**06.02.1993** Service defect: 'UN - NO FAULT FOUND - BRAKE HEAD CHECKED AND NO FAULT FOUND.'.
**18.02.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES ULTRASOUND TESTED FOR CRACKS.'.
**18.02.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - SUSPENSION BEARING OIL PADS CHECKED.'.
**18.02.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - LOW RESISTANCE READINGS CLEARED WHEN SUMP EMPTIED OF WATER. 7 GLOBES REPLACED.'.
**18.02.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**18.02.1993** Service defect: 'B - LUBRICATING SYSTEM - OIL PIPE ABOVE OIL FILTER WELDED.'.
**18.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT - SLUDGE TANK UNBLOCKED. 1 BANJO WASHER REPLACED ON A BANK'.
**18.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**18.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK

REPLACED AND BRAKES ADJUSTED.'.
**20.02.1993** Service defect: 'UN - COOLING SYSTEM - ENGINE REAR COOLING WATER HOSE REPLACED.'.
**23.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WIPER BLADE REPLACED.'.
**23.02.1993** Service defect: 'UN - OTHER BODY REPAIRS - RAINWATER LEAK AROUND AERIAL SEALED.'.
**04.03.1993** Service defect: 'UN - COOLING SYSTEM - COOLING WATER LEAKS REPAIRED.'.
**04.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**06.03.1993** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL LEAK REPAIRED.'.
**10.03.1993** Service defect: 'UN - GENERAL ACCIDENT - DERAILMENT DAMAGE. TRACTION MOTOR COVERS REPLACED ON TRAC MOTORS #1 & #2.'.
**23.03.1993** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LEAK REPAIRED.'.
**23.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.03.1993** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED. PHONE CHECKED AND OK.'.
**03.04.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP.'.
**03.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**10.04.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP.'.
**10.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**14.04.1993** Service defect: 'TW - RADIO REPAIR - TRANSCEIVER REPAIRED.'.
**23.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**01.05.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP.'.
**01.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**10.05.1993** Service defect: 'TW - STARTER MOTOR - STARTER MOTORS SPACED FURTHER FROM FLYWHEEL.'.
**17.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED DROPPING AMPS COUPLED TO Z1. REPORTED RADIO FAULT. CHECKED AND NO FAULTS FOUND.'.
**24.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN REPAIRS CARRIED OUT.'.
**24.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**05.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATER REPAIRED.'.
**05.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WIPER REPAIRED.'.
**05.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.06.1993** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION OF AXLES.'.
**30.06.1993** Service defect: 'C - BOGIE MAINTENANCE - WICKS - AXLE PADS CHECKED.'.
**30.06.1993** Service defect: 'C - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**30.06.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**30.06.1993** Service defect: 'C - WHEELSLIP - WHEELSLIP RESISTANCE FOR NUMBER 1 AND 6 TRACTION MOTORS REPLACED.'.
**12.07.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**12.07.1993** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.
**14.07.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE TIMER SNAP SWITCH REPLACED.'.
**16.07.1993** Service defect: 'TW - DYNAMIC BRAKE - SPEEDOMETER CONTACTS FOR DYNAMIC BRAKE CONTROL ADJUSTED.'.
**07.08.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**07.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL ON FOOTPLATE CLEANED OFF.'.
**07.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**10.08.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**16.08.1993** Service defect: 'TW - NO FAULT FOUND - BRAKE CHECK OK.'.
**26.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - MESH OIL FILTER IN COMPRESSOR NEEDS REPLACING. NO SPARES AVAILABLE.'.
**26.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.09.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE REPAIRS CARRIED OUT.'.
**07.09.1993** Service defect: 'UN - STARTER MOTOR - 2 BOSCH STARTER MOTORS REPLACED. OVERHAULED BY ELECTRO REWINDS. **********'.
**22.09.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER WATER LEAK REPAIRED.'.
**29.09.1993** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED.'.
**06.10.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - AXLE SUSPENSION BEARING BOX REPAIRS CARRIED OUT.'.
**24.11.1993** Service defect: 'TS - STARTER MOTOR - STARTER MOTOR REPLACED.'.
**03.02.1994** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED ON WATER RAIL #2 A BANK.'.
**03.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**15.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED.'.
**21.02.1994** Service defect: 'UN - COOLING SYSTEM - WATER PUMP REPAIRED.'.
**10.03.1994** Service defect: 'TW - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**10.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**25.03.1994** Service defect: 'UN - STARTER MOTOR - B BANK BOSCH STARTER MOTOR REPLACED.**********'.
**27.04.1994** Service defect: 'UN - COOLING SYSTEM - WATER LEAK IN PIPE UNDER BLOWER REPAIRED.'.

**27.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGE CARRIED OUT DUE TO CONTAMINATION AND ATTRITION OF OIL.'.
**05.05.1994** Service defect: 'B - BOGIE MAINTENANCE - SPRINGS - 6 PINS PINTLES AND SADDLES REPLACED.'.
**05.05.1994** Service defect: 'B - BOGIE MAINTENANCE - WICKS - #6 OIL WICK PAD CHANGED ON DRIVERS SIDE. #4 OIL BOX CHANGED ON DRIVERS SIDE.'.
**05.05.1994** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - ILR, AR, PC1 AND PC2 RELAYS REPLACED. VIGILANCE PULSER UNIT REPAIRED.'.
**05.05.1994** Service defect: 'B - ENGINE CRANKSHAFT - WATER LEAK REPAIRED.'.
**05.05.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**05.05.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED. 2 GLOBES REPLACED.'.
**26.05.1994** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - HEADLIGHT SWITCH.'.
**26.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**26.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BRAKE BLOCKS REPLACED AND ADJ. LUBRICATOR REPAIRED.'.
**28.06.1994** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**28.06.1994** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP'.
**28.07.1994** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR CHANGE.'.
**30.09.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED.'.
**30.09.1994** Service defect: 'UN - ENGINE - BOTH CRANKSHAFT DAMPERS REPLACED. TESTED ON LOAD TANK.'.
**30.09.1994** Service defect: 'UN - ENGINE LINER - NUMBER 1A AND 1B CYLINDER LINERS REPLACED. LEAK IN NUMBER 1 LINER CAUSED MAJOR ENGINE DAMAGE.'.
**21.06.1995** Service defect: 'UN - ENGINE - NUMBER 2A BIG END BEARING FAILURE. TO BE STORED FOR LATER OVERHAUL.'.

**ZA 3**

Details: locomotive 'ZA 3 J' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $464310
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L32
**Date Built:** 29.08.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1900kw
**BSG Code:** LTAW

| | | | |
|---|---|---|---|
| Return to Service Date: | 13.08.1996 | | |
| Last Lift: | 25.07.1996 | | |
| SW Service Mileage: | 258263 KM | SW Service Date: | 06.08.1991 |
| A Service Mileage: | 243493 KM | A Service Date: | 17.10.1994 |
| B Service Mileage: | 313681 KM | B Service Date: | 07.12.1995 |
| C Service Mileage: | 173211 KM | C Service Date: | 03.08.1993 |
| F Service Mileage: | 339888 KM | A Service Date: | 25.07.1996 |
| US Service Mileage: | 339888 KM | A Service Date: | 25.07.1996 |

**06.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - WIPER REPAIRED.'.
**06.07.1989** Service defect: 'UN - NO FAULT FOUND - RADIO & HANDSET TESTED 'OK'.'.
**18.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATERS REPAIRED.'.
**18.07.1989** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPL.(MISSING)'.
**18.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**19.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED BOOST 'OK'.'.
**27.07.1989** Service defect: 'UN - COOLING SYSTEM - REPL.WATER DRAIN COCK.'.
**27.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - STRAIGHTENED STEPS.'.
**24.08.1989** Service defect: 'B - BROKEN PIPE - NO.3 OIL DRAIN PIPE REPL. ON 'A'BANK.'.
**24.08.1989** Service defect: 'B - COOLING SYSTEM - (2)WATER HOSE CLAMPS TIGHTENED.'.
**24.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**24.08.1989** Service defect: 'B - EXHAUST - (2)EXHAUST BELLOWS REPL.'.
**24.08.1989** Service defect: 'B - FUEL SYSTEM LINES - NO.6 FUEL PRESSURE PIPE TIGHTENED ON 'A'BANK.'.
**24.08.1989** Service defect: 'B - FUEL SYSTEM PUMP - NO.4FUEL PUMP WASHER REPL. ON 'B'BANK.'.
**24.08.1989** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - FAULT HORN REPAIRED.'.
**10.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (IO)LAMPS REPL. & HEATER REPAIRED.'.
**10.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**10.10.1989** Service defect: 'TW - RADIO REPAIR - REPAIRED RADIO.'.
**18.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**18.10.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**20.10.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**20.10.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**20.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - WASHED DIRTY FOOTPLATE.'.
**24.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBES.'.
**24.10.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**24.10.1989** Service defect: 'C - FUEL SYSTEM LINES - REPAIRED LEAK ON PIPE TO SEPERATOR.'.
**24.10.1989** Service defect: 'C - GENERAL - NO.1&6 T/MOTORS HARD DOWN CHECK NEXT

SERVICE.(OTHER SETS .05'.
**24.10.1989** Service defect: 'C - TRACTION MOTOR - BLOWER REPL.'.
**08.11.1989** Service defect: 'TS - GENERAL - WINDOW HANDLE TO BE REPAIRED NEXT TIME WHEN IN SHOP.'.
**08.11.1989** Service defect: 'TS - LUBRICATING SYSTEM - REPAIRED OIL LEAK.'.
**08.11.1989** Service defect: 'TS - NO FAULT FOUND - RECTIFIER TESTED 'OK'.DIODES CLEANED & AL.2 CABLE RELUGGED AS A PRECAUTIONARY MEASURE.'.
**16.11.1989** Service defect: 'UN - NO FAULT FOUND - TESTED RADIO & LOCO FOR EARTH FAULTS 'OK'.'.
**16.11.1989** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE ROOM DOOR SECURED.'.
**20.11.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**20.11.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPAIRED.'.
**20.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**20.11.1989** Service defect: 'TW - GENERAL - REPAIRED SEAT.'.
**22.11.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**27.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - REPLACED WHISTLE CORD.'.
**27.11.1989** Service defect: 'UN - VIGILANCE - PULSATOR REPAIRED.'.
**30.11.1989** Service defect: 'UN - COOLING SYSTEM - WATER GAUGE GLASS CLEANED.'.
**30.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDOW WIPER REPAIRED & HANDLE REPL.'.
**04.12.1989** Service defect: 'UN - VIGILANCE - REPAIRED PULSATOR WIRING.'.
**11.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**11.12.1989** Service defect: 'UN - NO FAULT FOUND - SLOW BUILDING POWER TESTED 'OK'.'.
**21.12.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**21.12.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**12.03.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - CLEANED CONTACTS ON MOTOR CONTROLLERS.'.
**12.03.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - REPLACED SUSPECT CONTACTS.'.
**12.03.1990** Service defect: 'B - DYNAMIC BRAKE - TIGHTENED DYNAMIC BRAKE CONTACTS.'.
**12.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LIGHT GLOBES REPLACED.'.
**12.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 23-01-90.SPEEDO READ 160265K/M ON LOCO.'.
**12.03.1990** Service defect: 'B - LUBRICATING SYSTEM - SEVERAL FLANGE LUBE REPAIRED.'.
**12.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**12.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (12)TRACTION MOTOR BRUSHES REPLACED.'.
**21.03.1990** Service defect: 'TW - GENERAL - (A)SERVICE.'.
**29.03.1990** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**12.04.1990** Service defect: 'UN - NO FAULT FOUND - DYNAMIC BRAKE CHECKED AND TESTED STATICALLY & DYNAMICALLY, OK.NO FAULT FOUND.'.
**01.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBE PIPE.'.
**01.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**01.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - REPAIRED SPEEDO.'.
**01.05.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (8)SETS OF BRUSHES REPL.'.
**22.05.1990** Service defect: 'UN - BODY REPAIRS - ACCIDENT - DAMAGED FRONT STEP REPAIRED.'.
**22.05.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HOT PLATE SWITCH REPLACED.'.
**05.06.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 24-05-1990 AT 0800HRS.'.
**26.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**26.11.1990** Service defect: 'B - BROKEN PIPE - LUBE PIPE REPAIRED'.
**26.11.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FLANGE LUBE FUSE REPLACED,VIG.PANEL REPLACED,7 LAMPS REPLACED'.
**26.11.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 207628KM.'.
**26.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT STEPS STRAIGHTENED,TRIMOUNT CHANGED,ENGINE ROOM DOORS REPAIRED'.
**26.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED'.
**26.11.1990** Service defect: 'B - RADIO REPAIR - RADIO REPLACED'.
**26.11.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 T/M BRUSHES REPLACED'.
**22.03.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC3.CONTACT SECURED'.
**22.03.1991** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - F.A.R.RELAY REPAIRED'.
**22.03.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 2 GLOBES REPLACED,RADIO FUSE REPLACED,EDDY CURRENT CLUTCH CLEANED'.
**22.03.1991** Service defect: 'B - ENGINE WATER LEAK - WATER HOSE TIGHTENED ON (A) BANK NO.6'.
**22.03.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 227430KM.'.
**22.03.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED,1 SAND PIPE REPLACED'.
**22.03.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS CHANGED AND ADJUSTED'.
**22.03.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 8 T/M BRUSHES REPLACED'.
**31.05.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 241555KM.'.
**31.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REPAIRED'.
**31.05.1991** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED'.
**15.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GAUGE LIGHTS REPAIRED'.
**15.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL ON FOOTPLATE CLEANED OFF'.

**15.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - FRONT STEP STRAIGHTENED'.
**22.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL TEST & PHOTOS'.
**06.07.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - DIRTY HEADLIGHTS CLEANED'.
**06.07.1991** Service defect: 'UN - RADIO REPAIR - FAULTY RADIO REPLACED'.
**10.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND A/C WONT START BOOKING'.
**06.08.1991** Service defect: 'SW - BOGIE - 7 OIL PADS RENEWED IN AXLE BOXES'.
**06.08.1991** Service defect: 'SW - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH CLEANED'.
**06.08.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - 7 GLOBES REPLACED'.
**06.08.1991** Service defect: 'SW - ENGINE WATER LEAK - WATER LEAK REPAIRED IN RADIATOR COMPARTMENT'.
**06.08.1991** Service defect: 'SW - GENERAL - ****'C'SERVICE COMPLETED ****'.
**06.08.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - ENGINE OIL REPLACED WITH CALTEX MULTIGRADE'.
**06.08.1991** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPAIRED'.
**06.08.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED & BRAKES ADJUSTED'.
**06.08.1991** Service defect: 'SW - TRACTION MOTOR BRUSHES - BRUSH BOX ON TOP OF NO.3 TRACTION MOTOR REPAIRED'.
**06.08.1991** Service defect: 'SW - TRACTION MOTOR BRUSHES - FULL SET OF TRACTION MOTOR TOP BRUSHES REPLACED'.
**08.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED'.
**10.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - ENGINE SPEED CONTROL PIPE REPLACED'.
**10.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**10.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**30.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE & SPEEDO READ 257532KM. ****'.
**30.08.1991** Service defect: 'TW - LUBRICATING SYSTEM - ENGINE OIL LEAKS REPAIRED'.
**30.08.1991** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - WET SAND CLEARED OUT OF SAND BOXES'.
**31.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - DOOR SEAL REPAIRED'.
**05.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - STATIC CONVERTER REPLACED A/C RADIO & PANEL LIGHTS NOT WORKING'.
**06.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS REPAIRED'.
**06.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO FUSES REPLACED'.
**10.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - D/S REAR WINDOW RESEALED'.
**10.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**21.09.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SPEEDO RESISTANCE GLOBE REPLACED'.
**23.10.1991** Service defect: 'TS - BOGIE - BOGIE CHANGE COMPLETED'.
**25.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER REPLACED'.
**25.11.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN WINDOW REPLACED'.
**09.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO FAULT REPAIRED.'.
**19.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADER WATER DAMAGED-REPAIRED.'.
**19.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT. MAIN RESERVOIR PRESSURE ADJUSTED.'.
**19.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS SIDE DOOR REPAIRED.'.
**23.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.05.1992** Service defect: 'UN - VIGILANCE - VIGILANCE NOT WORKING. FAULT FIX.'.
**27.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - DOOR LOCK REPAIRED.'.
**30.05.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY FAULT REPAIRED.'.
**10.06.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED AS WOULD NOT START-NO FAULT FOUND. ALSO REPORTED TO BE LOOSING MAIN RES PRESSURE WHEN SANDS USED-NO FAULT FOUND'.
**10.06.1992** Service defect: 'UN - RADIO REPAIR - PHONE REPROGRAMMED.'.
**13.06.1992** Service defect: 'UN - NO FAULT FOUND - POWER CONTACT #2 CHECKED. NO FAULT FOUND.'.
**16.06.1992** Service defect: 'TW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN BLOCKED.'.
**20.06.1992** Service defect: 'UN - RADIO REPAIR - BROKEN PHONE AERIAL REPLACED.'.
**25.06.1992** Service defect: 'UN - RADIO REPAIR - BROKEN PHONE AERIAL REPLACED.'.
**25.06.1992** Service defect: 'UN - TRACTION MOTOR - NUMBER 5 TRACTION MOTOR BELLOWS REPLACED.'.
**25.06.1992** Service defect: 'UN - WHEELSLIP - WHEEL SLIP BUZZER REPAIRED.'.
**03.07.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASONIC FLAW TESTING CARRIED OUT ON AXLES.'.
**03.07.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC1 CONTACTOR TOP CONTACT TIGHTENED.'.
**03.07.1992** Service defect: 'B - COOLING SYSTEM - WATER RAIL HOSE CLIPS TIGHTENED.'.
**03.07.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FIVE INTERIOR LIGHT GLOBES REPLACED. ONE MARKER LIGHT GLOBE REPLACED.'.
**03.07.1992** Service defect: 'B - EXHAUST - FOUR EXHAUST GASKETS CHANGED.'.
**03.07.1992** Service defect: 'B - FUEL SYSTEM LINES - THREE FUEL PUMP WASHERS REPLACED ON #6 B BANK AND #2 & #5 A BANK.'.
**03.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT -

ONE FLANGE LUBE NOZZLE REPAIRED. FOUR AIR BOWLS CLEANED AND TAPS RENEWED.'.

**03.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE.'.

**03.07.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED, ONE BRAKE BLOCK CHANGED.'.

**03.07.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - SIX TRACTION MOTOR BRUSHES RENEWED.'.

**08.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - CENTRE COUPLING STRIKER PLATES REPLACED ON REAR COUPLING.'.

**11.07.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.

**16.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.

**16.07.1992** Service defect: 'UN - RADIO REPAIR - PHONE REPROGRAMMED.'.

**25.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT BRAKE HEAD CHANGED.'.

**31.07.1992** Service defect: 'TW - NO FAULT FOUND - EARTH LINK HAD BEEN REMOVED. CHECKED AND NO FAULT FOUND.'.

**06.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - AIR DUCT FELL OFF NUMBER 3 TRACTION MOTOR AND WAS LOST ON TRACK. AIR DUCT REPLACED.'.

**11.08.1992** Service defect: 'UN - NO FAULT FOUND - EARTH LINK REMOVED WHEN ENTERED SHOP. NO FAULT FOUND.'.

**13.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - WATER LEAKS AROUND WINDOWS AND AERIAL PLUGGED.'.

**31.08.1992** Service defect: 'TS - TRACTION MOTOR - NUMBER 4 TRACTION MOTOR AND SUSPENSION BEARING REPLACED. NUMBER 4 MACHINED TO 0.050INCHES BELOW SIZE. NEW SPUR GEAR.'.

**05.09.1992** Service defect: 'UN - COOLING SYSTEM - WATER LEAK BETWEEN WATER RAIL AND HEAD 5B.'.

**05.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEADLIGHT KNOB REPLACED.'.

**05.09.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.

**07.09.1992** Service defect: 'UN - NO FAULT FOUND - TRACK STOPPAGE DUE TO WHEEL SLIP. NO FAULT FOUND AND TEST RUN SHOWED NO FAULTS.'.

**10.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**18.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**18.09.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.

**26.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**03.10.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - ENGINE RUN SOLENOID MODIFICATION CARRIED OUT. LOW GOVERNOR OIL CUTOUT MODIFICATION CARRIED OUT.'.

**13.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - REAR BRAKE PIPE COCK FREED UP.'.

**13.10.1992** Service defect: 'UN - OTHER BODY REPAIRS - LEAKING DRIVERS SIDE WINDOW REPAIRED.'.

**24.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED AND CHECKED FOR SOURCE OF ALUMINIUM DETECTED IN OIL BY ANALYSIS.'.

**24.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**05.11.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING REPAIRED IN ENGINE ROOM TERMINAL BOX.'.

**12.11.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - STRIPPED THREADS RETAPPED ON MOTOR CONTACTOR NUMBER 1.'.

**25.11.1992** Service defect: 'B - BLOCKED FILTERS - PONGLASS FILTERS REPAIRED AND CLEANED.'.

**25.11.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - NUMBERS 1 AND 5 AXLE PADS REPLACED.'.

**25.11.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC2 CONTACTS REPLACED.'.

**25.11.1992** Service defect: 'B - COOLING SYSTEM RADIATOR - DRIVERS SIDE RADIATOR MOUNTS REPLACED.'.

**25.11.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 1 STEP LIGHT LENS REPLACED.'.

**25.11.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.

**25.11.1992** Service defect: 'B - FUEL SYSTEM PUMP - 2 FUEL PUMP DELIVERY WASHERS REPLACED.'.

**25.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WINDSCREEN WIPER MOTOR REPAIRED.'.

**25.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**25.11.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.

**21.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED SMOKE COMING FROM TRACTION MOTORS 3 & 4. CHECKED AND NO FAULT FOUND.'.

**14.01.1993** Service defect: 'TW - ENGINE GOVERNOR - ENGINE GOVERNOR OIL LEAK REPAIRED.'.

**06.02.1993** Service defect: 'UN - RADIO REPAIR - RADIO TRANSCEIVER REPLACED NO ANM21.'.

**19.02.1993** Service defect: 'TW - RADIO REPAIR - RADIO FAULT REPAIRED.'.

**25.02.1993** Service defect: 'TS - NO FAULT FOUND - TRACK STOPPAGE CAUSED BY BOOST FAILURE. CHECKED AND BOOST FAILURE RELAY BDR1 EXAMINED. NO FAULT FOUND.'.

**25.02.1993** Service defect: 'TS - RADIO REPAIR - RADIO REPLACED.'.

**12.03.1993** Service defect: 'TS - TRACTION MOTOR SUSPENSION BEARING - #6 TRAC MOT SUSPENS BEARING FAILURE ALSO CAUSED SPLIT PINIONNUMBER 6 TRACTION MOTOR REPLACED.'.

**15.03.1993** Service defect: 'UN - RADIO REPAIR - AERIAL REPAIRED.'.

**22.03.1993** Service defect: 'UN - TRACTION MOTOR EARTH - EARTH FAULT IN TRACTION MOTOR NUMBER 6. TRACTION MOTOR NUMBER 6 REPLACED.'.

**27.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**31.03.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE PADS CHECKED.'.

**31.03.1993** Service defect: 'B - COOLING SYSTEM - WATER RAIL HOSE CLAMPS TIGHTENED.'.

**31.03.1993** Service defect: 'B - ENGINE

TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**31.03.1993** Service defect: 'B - FUEL SYSTEM LINES - INJECTOR DRIBBLE PIPES REPLACED ON B BANK.'.

**31.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE NOZZLE REPLACED.'.

**31.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPLACED.'.

**31.03.1993** Service defect: 'B - NO FAULT FOUND - NO ELECTRICAL PARTS RENEWED.'.

**08.04.1993** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT CIRCUIT REPAIRED.'.

**08.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - DRIVERS SIDE WINDOW WIPER REPAIRED.'.

**13.04.1993** Service defect: 'UN - GENERAL - STOLEN FIRE EXTINGUISHERS REPLACED.'.

**13.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER REPLACED.'.

**13.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - VANDALISED CAB WINDOWS REPLACED.'.

**16.04.1993** Service defect: 'UN - GENERAL - FIRE EXTINGUISHERS DISCHARGED BY VANDALS. REPLACED.'.

**16.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - VANDALISED CAB WINDOWS REPLACED.'.

**24.04.1993** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED.'.

**06.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED STARTING MOTORS ENGAGING WHEN RUNNING, AND CIRCUIT BREAKER THROWING OUT WHEN COUPLED. NO FAULTS FOUND.'.

**11.05.1993** Service defect: 'TW - NO FAULT FOUND - REPOTED BURNING SMELL IN CAB CAUSING EYE IRRITATION AND SORETHROATS. CHECKED AND NO FAULT FOUND.'.

**13.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT RELAY VALVE REPLACED.'.

**26.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED BURNING SMELL. TRUNKING CHECKED USING FIBRESCOPE AND RUN ON LOAD TANK WITH NO FAULTS FOUND. TEST RUN 27/05/93'.

**29.05.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE RESISTOR INSULATORS CLEANED.'.

**05.06.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - MC1 REPLACED.'.

**05.06.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED EARTH FAULT. CHECKED AND NO FAULT FOUND.'.

**19.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**19.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**22.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - NUMBER 3 TRACTION MOTOR BLOWER CHUTE REPLACED.'.

**21.07.1993** Service defect: 'UN - TRACTION MOTOR - NUMBER 6 TRACTION MOTOR REPLACED.'.

**03.08.1993** Service defect: 'C - ENGINE LINER - NUMBER 2B LINER REPLACED.'.

**03.08.1993** Service defect: 'C - EXHAUST - 1 EXHAUST BELLLOW REPLACED.'.

**03.08.1993** Service defect: 'C - FUEL SYSTEM INJECTORS - 1 FUEL INJECTOR REPLACED ON 1B.'.

**03.08.1993** Service defect: 'C - MECHANICAL EQUIPMENT - 1 FLANGE LUBE NOZZLE REPLACED.'.

**03.08.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE OPERATIONAL.'.

**03.08.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED.'.

**13.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**16.08.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AS DROPPING AMPS. CHECKED AND NO FAULT FOUND.'.

**01.09.1993** Service defect: 'TW - ENGINE LINER - LEAKING LINERS DUMPED COOLING WATER IN SUMP. LINERS RESEALEDWITH SILICONE AND OIL CHANGED.'.

**15.09.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED RADIO AND PHONE FAULT. CHECKED AND NO FAULT FOUND.'.

**15.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - BENT FRONT STEP STRAIGHTENED.'.

**20.09.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR ELEMENT LEAK REPAIRED.'.

**04.10.1993** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - AXLE SUSPENSION BEARING BOX REPAIRS CARRIED OUT.'.

**06.10.1993** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - AXLE SUSPENSION BEARING BOXES REPLACED. UNABLE TO FIND OUT WHICH WERE DONE.'.

**21.12.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**26.01.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**02.02.1994** Service defect: 'UN - STARTER MOTOR - DRIVERS SIDE STARTER MOTOR REPLACED WITH ELECTRO REBUILT MOTOR.'.

**12.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED.'.

**19.02.1994** Service defect: 'TW - BOGIE MAINTENANCE - WICKS - 3 AXLE FELTS REPLACED.'.

**19.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**21.02.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED COMPRESSOR GOVERNOR FAULT CAUSED BY COUPLED LOCO Z2'.

**25.02.1994** Service defect: 'UN - STARTER MOTOR - B BANK STARTER MOTOR REPLACED.**********'.

**14.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 10 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**16.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**22.04.1994** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAKS REPAIRED IN THE RADIATOR COMPARTMENT.'.

**26.04.1994** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAKS IN RADIATOR COMPARTMENT REPAIRED.'.

**11.05.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL AND WATER LEAKS REPAIRED.'.

**29.06.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REBUILT FOLLOWING FIRE IN TURBO FILTERS.**********'.
**29.06.1994** Service defect: 'TS - NO FAULT FOUND - REPORTED WOULD NOT START. CHECKED AND NO FAULT FOUND.'.
**30.06.1994** Service defect: 'B - BOGIE MAINTENANCE - WICKS - #1 & #3 AXLE BEARING PADS REPLACED.'.
**30.06.1994** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - VIGILANCE ROTOR WIRING REPLACED. 2 STEP LIGHT GLASSES REPLACED.'.
**30.06.1994** Service defect: 'B - EXHAUST - 6 EXHAUST BELLOW GASKETS REPLACED. WATER LEAK A BANK REPAIRED.'.
**30.06.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED. 1 SAND HOSE REPLACED.'.
**30.06.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED.'.
**02.09.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MC1 RELAY REPLACED.********** CAB LIGHT REPLACED.'.

**ZA 4**

Details: locomotive 'ZA 4 S' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $464310
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L32
**Date Built:** 27.09.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1900kw
**Remarks:** STORED 01/07/96
**BSG Code:** LTAW

| | | | |
|---|---|---|---|
| Return to Service Date: | 28.06.1996 | | |
| Last Lift: | 01.03.1983 | | |
| A Service Mileage: | 774730 KM | A Service Date: | 09.07.1994 |
| B Service Mileage: | 887119 KM | B Service Date: | 28.03.1996 |
| C Service Mileage: | 778235 KM | C Service Date: | 03.08.1994 |
| F Service Mileage: | 0 KM | A Service Date: | 01.03.1983 |
| US Service Mileage: | 895399 KM | A Service Date: | 28.06.1996 |

**13.07.1989** Service defect: 'UN - ENGINE LINER - NO.6 PISTON LINER & ROD RENEWED 'A'BANK.'.
**13.07.1989** Service defect: 'UN - EXHAUST - PLUG RENEWED.(MISSING)'.
**13.07.1989** Service defect: 'UN - GENERAL - TESTED ON LOAD TANK.'.
**13.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - D/SIDE IND.BRAKE HEAD TIGHTENED.'.
**13.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE GREASED.'.
**26.07.1989** Service defect: 'TW - BOGIE - FLANGE LUBE BOX REFITTED (BROKEN).'.
**26.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPL.'.
**26.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**26.07.1989** Service defect: 'TW - GENERAL - OIL FILLER REPAIRED (WING NUTS & BOLTS FITTED).'.
**26.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**26.07.1989** Service defect: 'TW - NO FAULT FOUND - HOT PLATE TESTED 'OK'.'.
**27.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**08.08.1989** Service defect: 'B - BOGIE - (1)SPRING HANGER COTTER REPL.'.
**08.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**08.08.1989** Service defect: 'B - EXHAUST - (3)BELLOWS REPL.'.
**08.08.1989** Service defect: 'B - FUEL SYSTEM PUMP - NO.6'B' BANK F/PUMP WASHER REPL.'.
**08.08.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**20.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**20.09.1989** Service defect: 'TW - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**29.09.1989** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**29.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**10.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.& HOT PLATE SECURED.'.
**10.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**01.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - OIL CHANGED.'.
**01.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**02.11.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**02.11.1989** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - CLUTCH CLEANED.'.
**02.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**02.11.1989** Service defect: 'B - GENERAL - *D/BRAKE TO FIX AT NEXT TIME IN SHOP.'.
**02.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT - (9)PINTALS & SADDLES REPL.'.
**02.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT - REPAIRED FRONT WIPER.'.
**02.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**02.11.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**14.11.1989** Service defect: 'UN - BOGIE - COTTER IN SPRING HANGER REPL.'.
**14.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - F/LUBE SOLENOID REPL.'.
**14.11.1989** Service defect: 'UN - GENERAL - SEAT REPL.'.
**17.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NEW F/LUBE TANK FITTED.'.

**17.11.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**07.12.1989** Service defect: 'UN - BODY REPAIRS - ACCIDENT - STEP REPAIRED.'.
**07.12.1989** Service defect: 'UN - BOGIE REPAIRS - ACCIDENT - REPLACED F/LUBE TANK HOSE,BRAKE CYLINDER & SPEEDO DRIVE.'.
**12.12.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.& REAR TAIL LIGHT REPAIRED'.
**12.12.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**12.12.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**12.12.1989** Service defect: 'TW - RADIO REPAIR - RADIO REPL.'.
**12.03.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - AUX.CONTACTS ON M.C.3 REPAIRED.'.
**12.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (2)LAMPS REPL.'.
**12.03.1990** Service defect: 'B - FUEL SYSTEM PUMP - NO.2&4 'B'BANK F/PUMP 'O'RING REPL.'.
**12.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 13-02-90.SPEEDO READ 201184K/M ON LOCO.'.
**12.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (24)BRUSHES REPL.'.
**10.04.1990** Service defect: 'UN - NO FAULT FOUND - REAR WHEELS CHECKED & OK.'.
**10.04.1990** Service defect: 'UN - TRACTION MOTOR - TORN TRACTION MOTOR BELLOW REPLACED.'.
**02.05.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**02.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**09.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - F/LUBE NOZZLE REPL.'.
**09.05.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL CONTACTS TRUED UP.& AIR LEAK ON DB2 CONTACTOR STOPPED.'.
**09.05.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - SR2 RELAY REPAIRED.'.
**09.05.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**09.05.1990** Service defect: 'B - ENGINE WATER LEAK - REPAIRED WATER LEAKS.'.
**09.05.1990** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMP. SOLENOID CLEANED.'.
**09.05.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**31.05.1990** Service defect: 'UN - ENGINE WATER LEAK - SEVERAL WATER LEAKS STOPPED.'.
**14.06.1990** Service defect: 'UN - GENERAL - *SPEEDO ON LOCO READ 223398K/M.'.
**09.08.1990** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR DOOR SWITCH ADJUSTED.'.
**09.08.1990** Service defect: 'C - ELECTRICAL MISC. AC/DC RELAYS - REPAIRED A.R & W.T.R.1.RELAY.AIR LEAK STOPPED ON M.C.4.'.
**09.08.1990** Service defect: 'C - GENERAL - *SPEEDO ON LOCO READ 234150K/M.'.
**09.08.1990** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**09.08.1990** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**09.08.1990** Service defect: 'C - TRACTION MOTOR BRUSHES - (16)BRUSHES REPL.'.
**21.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,LUBRICATORS REPAIRED'.
**21.11.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 7 LAMPS REPLACED,REAR FLANGE LUBE.SOLONOID REPAIRED'.
**21.11.1990** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO LOCATING BOLTS TIGHTENED'.
**21.11.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 249010KM.'.
**21.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT - COUPLING HOSE REPLACED,T/M BELLOW REPLACED,7 PINTALS REPLACED,REAR T/M BLOWER REPLACED,EXHAUST GASKET REPAIRED'.
**21.11.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE LEVER SUPPORTS WELDED'.
**21.11.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 T/M BRUSHES REPLACED'.
**08.04.1991** Service defect: 'B - BOGIE - 4 SADDLES RENEWED ON BOGIES'.
**08.04.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - HEATER REPLACED AND WIRING REPAIRED'.
**08.04.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 274725KM.'.
**08.04.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**08.04.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 12 T/M BRUSHES REPLACED'.
**13.06.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - REPLACED NEGATIVE RUNNING TO EDDY CURRENT CLUTCH'.
**13.06.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.
**13.06.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.
**13.06.1991** Service defect: 'UN - STARTER MOTOR - PULL IN COILS REPLACED ON BOTH STARTER MOTORS,ARMATURE REPLACED IN D/S STARTER MOTOR'.
**15.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - F/S CAB LIGHT REPAIRED'.
**20.06.1991** Service defect: 'TS - GENERAL - *** A.SERVICE ***,SPEEDO ON LOCO READ 280624KM.'.
**22.06.1991** Service defect: 'TS - TRACTION MOTOR EARTH - EARTH ON NO.5 T/M TRACED TO FAULTY CONNECTION RUBBER'.
**29.06.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**04.09.1991** Service defect: 'B - - SANDS CLEARED & MADE WORKABLE'.
**04.09.1991** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - E.R.T.B. WIRING REPAIRED,WIRING TO STARTER MOTORS REPAIRED'.
**04.09.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 GLOBES REPLACED'.
**04.09.1991** Service defect: 'B - FUEL SYSTEM PUMP - FUEL PUMP WASHER REPLACED ON 'B' BANK'.
**04.09.1991** Service defect: 'B - GENERAL - **** SPEEDO ON

LOCO READ 283025KM.****'.

**04.09.1991** Service defect: 'B - MECHANICAL EQUIPMENT - AIR PIPE ON REAR OF LOCO REPLACED'.

**04.09.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED'.

**04.09.1991** Service defect: 'B - RADIO REPAIR - RADIO & HANDSET REPLACED'.

**04.09.1991** Service defect: 'B - STARTER MOTOR - REMOVED BOTH STARTER MOTORS ,'B' SIDE STARTER MOTOR REPAIRED'A' SIDE STARTER MOTOR REBUILT'.

**14.10.1991** Service defect: 'TS - NO FAULT FOUND - WHEELSLIP CHECKED OK.'.

**16.10.1991** Service defect: 'UN - NO FAULT FOUND - LOCO TEST RUN TO ROCHERLEA OK.,WHEELSLIP TESTED OK.'.

**23.10.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.

**25.10.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COVER ON F/S HEATER REPLACED'.

**25.10.1991** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED'.

**12.11.1991** Service defect: 'TW - EXHAUST - EXHAUST PLUG REPLACED'.

**12.11.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETED ***'.

**13.11.1991** Service defect: 'UN - NO FAULT FOUND - LOCO AMPS TESTED OK.'.

**25.11.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.

**25.11.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.

**10.04.1992** Service defect: 'TS - 0'.

**11.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - INSTRUMENT PANEL LIGHTS REPAIRED.'.

**11.05.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT COVER REPLACED.'.

**11.05.1992** Service defect: 'UN - RADIO REPAIR - PHONE LOCKING FAULT NOT RECTIFIED YET BUT ALLOWED TO GO INTO SERVICE AS A SPARE LOCOMOTIVE.'.

**16.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MAIN RESERVOIR BRAKE HOSE PULLED OFF. REPLACED WITH NEW HOSE.'.

**27.05.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - PRIMING PUMP CONTACTOR REPLACED.'.

**27.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - DRAUGHTS STOPPED.'.

**03.06.1992** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED.'.

**03.06.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - RADIATOR FAN SPLINE SHAFT REPLACED.'.

**11.06.1992** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - OVER TEMPERATURE AND HIGH SPEED TEMPERATURE SWITCHES REPLACED.'.

**22.06.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - LUBE PRIMING PUMP FUSE REPLACED.'.

**22.06.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATER ELEMENTS REPLACED.'.

**24.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - DRAUGHTS IN CAB PLUGGED.'.

**08.07.1992** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - CURRENT REGULATING SLAVE RELAY CHANGED.'.

**11.07.1992** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - INSTRUMENT LIGHT SWITCH REPLACED.'.

**11.07.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPLACED.'.

**21.07.1992** Service defect: 'UN - CAM SHAFT - O RINGS REPLACED ON FUEL PUMP CAM SHAFT FOLLOWERS ON #5 & #6A BANK #4 B BANK.'.

**01.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**05.08.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - INSTRUMENT PANEL LAMPS REPLACED.'.

**05.08.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.

**28.08.1992** Service defect: 'TW - RADIATOR/PRESSURISING FAN - EDDY CURRENT CLUTCH DRUM FELL DOWN. REPOSITIONED AND TIGHTENED IN PLACE.'.

**01.10.1992** Service defect: 'C - BOGIE - RECONDITIONED BOGIE SET EX WEST AUST RAIL PLACED UNDER THIS LOCO.'.

**01.10.1992** Service defect: 'C - ELECTRICAL MISCELLANEOUS - ENGINE RUN SOLENOID MODIFICATION CARRIED OUT.'.

**01.10.1992** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.

**01.10.1992** Service defect: 'C - EXHAUST - 5 EXHAUST BELLOWS REPLACED.'.

**01.10.1992** Service defect: 'C - FUEL SYSTEM LINES - 6 BANJO WASHERS REPLACED.'.

**01.10.1992** Service defect: 'C - FUEL SYSTEM PUMP - 5 FUEL PUMP WASHERS AND FUEL RACK (A BANK) ADJUSTING SCREW REPLACED.'.

**01.10.1992** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - CENTRE COUPLING KNUCKLES REPLACED.'.

**01.10.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTERS REPAIRED.'.

**14.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**26.10.1992** Service defect: 'UN - STARTER MOTOR - STARTER MOTORS REPLACED WITH NEW BOSCH UNITS.'.

**04.11.1992** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE TO TRACTION MOTOR BLOWER SWITCH REPAIRED.'.

**04.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBRICATOR TANK REPAIRED.'.

**06.11.1992** Service defect: 'UN - NO FAULT FOUND - IN FOR CHECK. NO FAULTS FOUND.'.

**13.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**19.11.1992** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - LOW MEGGER READINGS ON CONTROL CIRCUIT. TEST RUN TOMORROW.'.

**28.11.1992** Service defect: 'UN - NO FAULT FOUND - PHONE

FAULT REPORTED. TESTED AND NO FAULT FOUND.'.

**04.12.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOOSE RECTIFIER CUBICLE REPOSITIONED AND SECURED.'.

**27.01.1993** Service defect: 'UN - BODY REPAIRS - ACCIDENT - BODY REPAIRS CARRIED OUT.'.

**27.01.1993** Service defect: 'UN - FUEL SYSTEM - FUEL TANK REPAIRED AFTER COLLISION WITH MINI BUS.'.

**04.02.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MCS 4 SWITCH REPLACED.'.

**12.02.1993** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.

**17.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**19.02.1993** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.

**25.02.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING TO PANEL LIGHTS REPLACED.'.

**25.02.1993** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL TOPPED UP.'.

**06.03.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - STICKY DRIVERS SIDE VIGILANCE FOOTPEDAL REPAIRED.'.

**06.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**10.03.1993** Service defect: 'UN - GENERAL ACCIDENT - DERAILMENT DAMAGE. TRACTION MOTOR COVERS REPLACED ON TRAC MOTORS #4 & #5.'.

**19.03.1993** Service defect: 'B - COOLING SYSTEM - WATER RAIL HOSE CLAMPS TIGHTENED ON BOTH BANKS.'.

**19.03.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**19.03.1993** Service defect: 'B - GENERAL - FIRE EXTINGUISHER MOUNT SHIFTED.'.

**19.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE BOX REPAIRED. SLUDGE TANK DRAINS REPAIRED.'.

**19.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED. SAND BOX LID REPAIRED.'.

**19.03.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. REAR TRAIN PIPE HOSE REPLACED.'.

**24.03.1993** Service defect: 'TS - MECH. EQUIPMENT RADIATOR FAN GEARBOX - TRACK STOPPAGE CAUSED BY BROKEN FAN SHAFT. FAN SHAFT REPLACED.'.

**31.03.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - VIGILANCE FOOT SWITCH REPLACED.'.

**31.03.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED.'.

**10.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - BENT STEPS REPAIRED.'.

**20.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**20.04.1993** Service defect: 'UN - NO FAULT FOUND - ENGINE SPEED GOV AND OTHER MODS CHECKED AND OK. PHONE TESTED AND OK.'.

**28.04.1993** Service defect: 'TS - NO FAULT FOUND - REPORTED LOW ENGINE OIL PRESSURE. OIL VISCOSITY CHECKED. LOAD TANK TESTED AND NO FAULT FOUND.'.

**04.05.1993** Service defect: 'UN - BOGIE - CRACKED TRAILING BOGIE WELDED IN TWO PLACES.'.

**04.05.1993** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - NUMBER 6 SUSPENSION BEARING REPLACED OPPOSITE PINION. REPACKED WITH NEW WICKING WOOL.'.

**06.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED TRIPPING CIRCUIT BREAKER WHEN COUPLED TO ZA3. CHECKED AND NO FAULTS FOUND.'.

**11.05.1993** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - AUXILLIARY LIGHT CIRCUIT BREAKER TRIPS WHEN STEP AND INSTRUMENT LIGHTS TURNED ON. TEST OK. TO CHECK NEXT SERVICE.'.

**13.05.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - ELECTRICAL FITTER LOCATED FURTHER EARTH FAULT IN STEP LIGHT.WILL CONTINUE LOOKING FOR REMAINING LIGHTING EARTHS NEXT SER'.

**22.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDBOX REPAIRS CARRIED OUT.'.

**22.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**27.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**21.06.1993** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - A QUICK ON THE JOB REPAIR WAS DONE ON MCS4 RELAY. THE LOCO IS TO BE WORKED BACK TO SHOP WHERE PROPER REPAIR TO BE DONE.'.

**21.06.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - THROTTLE PRESSURE PIPE LEAK REPAIRED.'.

**21.06.1993** Service defect: 'TS - NO FAULT FOUND - THE FITTERS DROVE TO FINGAL AND WERE ABLE TO KEEP THE LOCO OPERATIONAL AND RODE TRAIN BACK TO WESTERN JUNCTION.'.

**25.06.1993** Service defect: 'B - BOGIE - TRIMOUNT REPAIRED.'.

**25.06.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - 1 MAIN CONTACTOR REPLACED (M5).'.

**25.06.1993** Service defect: 'B - COOLING SYSTEM - WATER LEAKS REPAIRED ON A BANK WATER RAIL.'.

**25.06.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - LOW WATER LEVEL MODIFICATION CARRIED OUT. 2 LIGHTS REPLACED.'.

**25.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED. SANDERS MADE OPERATIONAL.'.

**25.06.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 10 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**25.06.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 5 SATS OF TRACTION MOTOR BRUSHES REPLACED.'.

**02.07.1993** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE TO HOTPLATE REPAIRED.'.

**13.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - DRIVERS SIDE WIDSCREEN WIPER REPAIRED.'.

**13.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS FREED UP.'.

**13.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**03.08.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**12.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**12.08.1993** Service defect: 'UN - RADIO REPAIR - PHONE REPAIRED.'.
**20.08.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**20.08.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - TRACTION MOTOR BLOWER RELAY REPAIRED.'.
**20.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE OPERATIONAL.'.
**26.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - MESH OIL FILTER IN COMPRESSOR NEEDS REPLACING. NO SPARES AVAILABLE.'.
**26.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**28.08.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - BLOWER DRAINS CLEARED.'.
**03.09.1993** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED.'.
**23.09.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - #4 AND #6 WHEELSETS REPLACED.'.
**08.10.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - MARKER LIGHT REPLACED.'.
**08.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJ.'.
**13.10.1993** Service defect: 'TS - LUBRICATING SYSTEM - TRACK STOPPAGE CAUSED BY LOW ENGINE OIL. NO OIL LEAKS FOUND,THOUGHT TO BE CAUSED BY BAD CREW PREPARATION.'.
**16.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NOSE ELECTRICAL CUBICLE BLOWN OUT.****'.
**16.10.1993** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED.'.
**16.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BELLOW REPLACED.'.
**02.12.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.12.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR COOLER REPLACED.'.
**12.02.1994** Service defect: 'TW - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**12.02.1994** Service defect: 'TW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO DRAIN CLEARED.'.
**12.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 10 BRAKE BLOCKS REPLACED.'.
**16.02.1994** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**08.03.1994** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - TDR1 SNAP SWITCH REPLACED.'.
**08.03.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**08.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**15.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**07.04.1994** Service defect: 'UN - NO FAULT FOUND - EARTH FAULT AND TURBO PROBLEM TO BE REPAIRED AT B SERVICE WHICH IS TO BE PERFORMED TODAY.'.
**08.04.1994** Service defect: 'B - CONTACTOR WELDED - RELAY CONTACTS ON MC 1 AND 6 REPLACED AND LOAD TANK TESTED.'.
**08.04.1994** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - FAULT REPAIRED IN WIRING TO COMPRESSOR GOVERNOR.'.
**08.04.1994** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - RELAYS 1LR, PC1, PC2, AND AR REPLACED WITH RECONDITIONED UNITS.'.
**08.04.1994** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - CARBONED UP TURBOCHARGER CLEANED AND NEW CAPSULE FITTED.'.
**08.04.1994** Service defect: 'B - MECHANICAL EQUIPMENT - BLOWER MOTOR BELT REPLACED. BRAKES ADJUSTED. FLANGE LUBE NOZAND BOX LID REPLACED. 1 SANDER HOSE REPLACED.'.
**08.04.1994** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - LONG SHAFT TO COMPRESSOR REPLACED.'.
**19.04.1994** Service defect: 'UN - FUEL SYSTEM - DAMAGED FUEL FITTING IN COLISION WITH A COW. FITTING TO BE REPLACED WHEN FUEL HAS BEEN USED UP. BACK INTO TEMP SERVICE.'.
**31.05.1994** Service defect: 'UN - BOGIE - CRACKED TRAILING BOGIE REPAIRED.********** TRIMOUNTS REPLACED.'.
**31.05.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**31.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BELLOWS REPLACED.'.
**03.08.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - RECTIFIER CUBICLE CLEANED. STEP LIGHTS REPAIRED.'.
**03.08.1994** Service defect: 'C - GENERAL - REAR FIRE EXTINGUISHER SEAL REPLACED.'.
**03.08.1994** Service defect: 'C - MAIN GENERATOR - MAINGENERATOR CLEANED AND V RING PAINTED.'.
**03.08.1994** Service defect: 'C - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BLOWER BELT TIGHTENED. 1 FLANGE LUBE TANK REPAIRED.'.
**03.08.1994** Service defect: 'C - MECHANICAL EQUIPMENT COMPRESSOR - ANALYSIS OF COMPRESSOR OIL SHOWED HIGH LEAD, COPPER, AND IRON. COMPRESSOR CHECKED AND NO FAULT FOUND. NEW OIL FILTERS'.
**03.08.1994** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - CENTRE COUPLING DRAUGHT PACKAGE REPAIRS CARRIED OUT ON BOTH ENDS.'.
**03.08.1994** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED. 2 FLANGE LUBE LIDS REPLACED.'.
**03.08.1994** Service defect: 'C - OTHER BODY REPAIRS - ROOF HANDLES AND ROOF REPAIRED.'.
**09.08.1994** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE REPAIRS CARRIED OUT.'.

**02.09.1994** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**28.06.1995** Service defect: 'TS - DYNAMIC BRAKE - RAIN WATER IN DYNAMIC BRAKE. EARTH LINK REMOVED UNTIL DRYED OUT. LINK PUT BACK IN NEXT DAY.'.

**ZA 5**

Details: locomotive 'ZA 5 E' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $464310
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L32
**Date Built:** 22.04.1976
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1900kw
**BSG Code:** LTAW

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 14.08.1996 | | |
| Last Lift: | 06.02.1996 | | |
| A Service Mileage: | 697540 KM | A Service Date: | 20.08.1994 |
| B Service Mileage: | 22896 KM | B Service Date: | 20.06.1996 |
| C Service Mileage: | 661959 KM | C Service Date: | 10.11.1993 |
| F Service Mileage: | 733326 KM | A Service Date: | 06.02.1996 |
| US Service Mileage: | 35334 KM | A Service Date: | 14.08.1996 |

**10.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - RENEWED ALARMS.'.
**10.07.1989** Service defect: 'UN - TRACTION MOTOR - NO.1 AXLE & BRASS BEARING RENEWED,ALL OIL BOXES MODIFIED. (A/C BEARING SIEZED)'.
**11.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED FOR AMPS & EARTH FAULT.(TRACK TEST SUGGESTED.)'.
**19.07.1989** Service defect: 'TW - DYNAMIC BRAKE - DYNAMIC BRAKE INSULATORS CLEANED.'.
**19.07.1989** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPAIRED.'.
**19.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**19.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**20.07.1989** Service defect: 'TS - NO FAULT FOUND - AMPS CHECKED 'OK'.'.
**26.07.1989** Service defect: 'TS - NO FAULT FOUND - CHECKED ELECT.'OK'.'.
**27.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED BOOST 'OK'.'.
**01.08.1989** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**01.08.1989** Service defect: 'TS - NO FAULT FOUND - TURBO BLOWER CHECKED 'OK'.'.
**28.08.1989** Service defect: 'TW - COOLING SYSTEM - WATER LEAK STOPPED.'.
**28.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**28.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**28.08.1989** Service defect: 'TW - RADIO REPAIR - RADIO REPL.'.
**28.08.1989** Service defect: 'TW - TRACTION MOTOR - NO.6 COVER REPL.& OIL BOX BOLT REPL.'.
**06.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED & (2)F/LUBRICATORS REPAIRED.'.
**06.09.1989** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - TAIL LIGHT SWITCH REPL.& BOOST FAILURE SWITCHES CHECKED 'OK''.
**06.09.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (11)LAMPS REPL.,SPEEDO & GAUGE LIGHTS REPAIRED & MODIFIED.'.
**06.09.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - LOW READING ON CAB HEATERS CLEARED & ALL AIR LINES CLEARED.'.
**06.09.1989** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT R/H SIDE W/WIPER REPL.'.
**06.09.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**15.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - WIPER REPAIRED.'.
**15.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**15.09.1989** Service defect: 'UN - NO FAULT FOUND - BURNING SMELL IN CAB CHECKED 'OK'.'.
**22.09.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.
**22.09.1989** Service defect: 'UN - TRACTION MOTOR - BLOWER BELT REPL.(WORN)'.
**27.09.1989** Service defect: 'UN - NO FAULT FOUND - COUPLER SOCKET & VIG.TESTED 'OK''.
**27.09.1989** Service defect: 'UN - TRACTION MOTOR - BLOWER BEARING RENEWED.'.
**06.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**06.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**25.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**25.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**25.10.1989** Service defect: 'UN - NO FAULT FOUND - VIG.TESTED 'OK'.'.
**25.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRED SEVERAL WINDOW SEALS.'.
**16.11.1989** Service defect: 'UN - ENGINE - (5)ENGINE MOUNTING BOLTS FITTED.'.
**16.11.1989** Service defect: 'UN - GENERAL - F/SIDE SEAT REPAIRED.'.
**16.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - (1)BLOCK REPL.& H/BRAKE CHAIN SHORTENED.'.
**20.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**29.11.1989** Service defect: 'B - EXHAUST - REPAIRED BELLOWS.'.
**29.11.1989** Service defect: 'B - GENERAL - REPLACED ROLL PLATES.'.
**29.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (7)BLOCKS REPL.'.
**29.11.1989** Service defect: 'B - TRACTION MOTOR - BELLOWS REPL.'.

**11.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**11.12.1989** Service defect: 'UN - NO FAULT FOUND - SLOW BUILDING POWER TESTED 'OK'.'.
**14.12.1989** Service defect: 'UN - ENGINE - TIGHTENED MOUNTING BOLTS.'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 20-12-89'.
**04.04.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 1057188K/M.'.
**12.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**01.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 27-04-90.'.
**02.05.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPL.'.
**02.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**22.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.07.1990** Service defect: 'B - COOLING SYSTEM RADIATOR - LARGE HOSE TO RADIATOR 'A'BANK REPL.'.
**03.07.1990** Service defect: 'B - ENGINE WATER LEAK - RENEWED (2)W/HOSES 'A'BANK.'.
**03.07.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 1075632K/M.'.
**03.07.1990** Service defect: 'B - LUBRICATING SYSTEM - NO.3 'A'&'B'BANK OIL DRAINS CLEARED.'.
**03.07.1990** Service defect: 'B - MECHANICAL EQUIPMENT - REAR WIPER HOSE REPL.'.
**03.07.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (1)HOSE REPL.'.
**24.09.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 096551K/M.'.
**24.09.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - REPL.(1)HOSE.'.
**24.09.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**04.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 110865KM.'.
**16.04.1991** Service defect: 'B - AUXILLARY MACHINES - FUEL PUMP CLEANED'.
**16.04.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 4 LAMPS REPLACED'.
**16.04.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 110865KM.'.
**16.04.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPLACED'.
**16.04.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BLOCKS REPLACED'.
**30.05.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO OIL SEALS REPLACED,ENGINE TESTED O.K.ON LOAD TANK'.
**30.05.1991** Service defect: 'UN - GENERAL - 137780KM.ON LOCO SPEEDO'.
**04.06.1991** Service defect: 'UN - FUEL SYSTEM - FUEL RACKS SET,LOCO TESTED O.K.ON LOAD TANK'.
**29.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**13.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - EARTH FAULT CAUSED BY FAULTY JUMPER'.
**13.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**15.07.1991** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED'.
**15.07.1991** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LEAK REPAIRED'.
**24.07.1991** Service defect: 'TW - FUEL SYSTEM - FALSE BOTTOM FITTED TO FUEL FILTER BOWL A/C LEAK'.
**24.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**31.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER BELT TIGHTENED'.
**13.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - BROKEN SUPPLY WIRE TO FLANGE LUBE BOX REPAIRED'.
**13.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BLOWER BELT TIGHTENED'.
**13.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPLACED,SANDS CLEARED'.
**13.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED'.
**21.08.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - T.D.R.1. SNAP SWITCH REPLACED A/C NOT PRIMING'.
**24.08.1991** Service defect: 'UN - GENERAL - LOCO CHECKED OK.'.
**31.08.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH DYNAMIC BRAKE'.
**16.09.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED'.
**16.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE WORKABLE'.
**25.09.1991** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - LOCO EARTHS TRACED TO WIRING GOING TO ENGINE ROOM FIRE DETECTORS'.
**06.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED'.
**07.11.1991** Service defect: 'UN - NO FAULT FOUND - LOCO TESTED OK.'.
**25.11.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - WIPER BLADE REPLACED'.
**25.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**06.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHT FAULTS.'.
**26.05.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CHANGED.'.
**27.05.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - OIL TOPPED UP IN GOVERNOR OIL TANK.'.
**02.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - RAIN WATER LEAKS AROUND AERIAL ETC PLUGGED.'.
**10.06.1992** Service defect: 'UN - NO FAULT FOUND - NO FAULTS FOUND.'.
**16.06.1992** Service defect: 'TW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN BLOCKED.'.
**09.07.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND FLAW TESTS CARRIED OUT ON AXLES.'.
**09.07.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - NUMBER 6 WICK CHANGED FMS/SIDE. ALL WICKS AND OIL BOXES CHECKED.'.

**09.07.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - TESTED FOR LOW INSULATION READINGS ON ALL TRACTION MOTORS. REMOVED OBSOLETE STC RADIO.'.
**09.07.1992** Service defect: 'B - GENERAL - DERAILMENT BAR TIGHTENED UP.'.
**09.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE OIL RESERVOIR REPAIRED. FLANGE LUBE PIPES BLED.'.
**09.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE. TWO SAND HOSES RENEWED.'.
**09.07.1992** Service defect: 'B - RADIO REPAIR - SILICON SEALANT APPLIED AROUND RADIO AERIAL.'.
**24.07.1992** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT RECTIFIED BY REPLACING WIRE TO AUXILLIARY ALTERNATOR.'.
**01.08.1992** Service defect: 'UN - RADIO REPAIR - RADIO/PHONE POWER SUPPLY REPLACED.'.
**21.08.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**21.08.1992** Service defect: 'TW - OTHER BODY REPAIRS - DRIVERS SIDE REAR CAB DOOR LOCK RUSTED AND STICKING. REPAIRED.'.
**05.09.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK ON LUBE OIL PUMP FITTING REPAIRED.'.
**05.09.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED BELT SLIP. NO FAULT FOUND.'.
**18.09.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED PHONE FAULT. NO FAULT FOUND.'.
**28.09.1992** Service defect: 'UN - EXHAUST - 1 EXHAUST BELLOW AND 2 MANIFOLD GASKETS REPLACED.'.
**01.10.1992** Service defect: 'UN - CONTACTOR EP VALVES - COMPRESSOR SOLENOID VALVE REPLACED.'.
**01.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ENGINE RUN SOLENOID MODIFICATION CARRIED OUT.'.
**03.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOW GOVERNOR OIL CUTOUT MODIFICATION CARRIED OUT.'.
**03.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**26.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**05.11.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - SPRING HANGER REPLACED ON COMPENSATING BEAM FIREMANS SIDE TRAILING BOGIE.'.
**05.11.1992** Service defect: 'UN - RADIO REPAIR - RADIO AND PHONE FAULT REPORTED. NO FAULT FOUND. THOUGHT TO HAVE BEEN IN DEAD SPOT.'.
**12.11.1992** Service defect: 'UN - NO FAULT FOUND - RADIO/PHONE FAULT REPORTED. NO FAULT FOUND.'.
**30.11.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE PADS CHECKED.'.
**30.11.1992** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - NUMBERS 1 AND 2 MC RELAYS REPLACED.'.
**30.11.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - ADJUSTED COMPRESSOR PRESSURE SWITCH. 4 LIGHT GLOBES REPLACEDWHEEL FLANGE PULSE UNIT REPLACED.'.
**30.11.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**30.11.1992** Service defect: 'B - FUEL SYSTEM PUMP - 2 FUEL PUMP DELIVERY WASHERS REPLACED.'.
**30.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT - 5 SADDLES REPLACED'.
**30.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - REAR KNUCKLE REPLACED.'.
**30.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**30.11.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. BRAKE ARM BRACKET WELDED.'.
**14.12.1992** Service defect: 'UN - COOLING SYSTEM - HOLE REPAIRED IN WATER RAIL.'.
**19.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.12.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS STOPPED.'.
**23.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPAIRED.'.
**10.02.1993** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - HEAD LIGHT SWITCH REPLACED.'.
**05.03.1993** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - NEW HEADLIGHT SWITCH FITTED.'.
**08.03.1993** Service defect: 'TS - COOLING SYSTEM - SPLIT HEADER TANK REPAIRED.'.
**15.03.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - 2 ELEMENTS REPLACED AND BOTTOM TANK WELDED ON A BANK RADIATOR.'.
**15.03.1993** Service defect: 'UN - FUEL SYSTEM PUMP - 6 FUEL PUMP FOLLOWER O RINGS REPLACED.'.
**25.03.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE PADS CHECKED AND OK.'.
**25.03.1993** Service defect: 'B - COOLING SYSTEM - WATER LEAK STOPPED UNDER HEADER TANK.'.
**25.03.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**25.03.1993** Service defect: 'B - EXHAUST - EHHAUST BELLOWS CLAMP TIGHTENED.'.
**25.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 2 FLANGE LUBE PIPES REPAIRED.'.
**25.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR FILTERS REPAIRED.'.
**25.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - PLATE UNDER COUPLING PIN REPLACED.'.
**25.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED AND SAND PIPE STRAIGHTENED.'.
**29.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - DERAILMENT BAR REPLACED.'.
**31.03.1993** Service defect: 'UN - EXHAUST - EXHAUST PIPE FELL OFF BLOWER. PIPE RECONNECTED.'.
**03.04.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS STOPPED.'.
**08.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - BROUGHT INTO SHOP TO CHANGE ROOF. THIS WAS NOT POSSIBLE AND WAS PUT BACK INTO SERVICE WITH WORK TO BE CARRIED OUT LATER.'.
**17.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL CHANGED.'.
**17.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - ROOF REPLACED.'.
**20.04.1993** Service defect: 'TW - ENGINE

TURBOCHARGER/SUPERCHARGER - REPORTED SPARKS FROM EXHAUST CAUSED BY CARBON ETC IN BLOCKEDTURBOCHARGER DRAIN. TURBO DRAIN CLEARED.'.

**08.05.1993** Service defect: 'UN - NO FAULT FOUND - CHECKED AND NO FAULTS.'.

**15.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**22.05.1993** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - PIVOTS AND PINTALS REPLACED.'.

**27.05.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HOTPLATE GUARD REPAIRED.'.

**27.05.1993** Service defect: 'UN - VIGILANCE - VIGILANCE ELECTRONIC PANEL REPLACED.'.

**08.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**13.07.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - LIGHTING EARTHS CLEARED.'.

**20.07.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION OF AXLES.'.

**20.07.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE PADS CHECKED.'.

**20.07.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC1 REPLACED.'.

**20.07.1993** Service defect: 'B - FUEL SYSTEM PUMP - NUMBER 1 B FUEL PUMP REPLACED.'.

**20.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT - REAR FLANGE LUBE AND PIPE REPLACED. ALL FLANGE LUBE NOZZLES CLEANED.'.

**20.07.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**27.07.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT CLEARED.'.

**27.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR REPLACED.'.

**06.08.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - LIGHTING CIRCUIT EARTHS CLEARED.'.

**16.08.1993** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - NUMBER 2, 3, 4 AND 6 SUSPENSION BEARING SHELLS REPLACED ON ONE SIDE OF EACH. DUE TO DIRTY OIL AND INNEFECTIVE WICKS.'.

**25.08.1993** Service defect: 'TS - BROKEN PIPE - BROKEN PIPE TO COMPRESSOR GOVERNOR REPAIRED. *A SERVICE CARRIED OUT WHILE LOCO IN SHOP*'.

**25.08.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - THROTTLE PRESSURE PIPE TO GOVERNOR REPAIRED.'.

**30.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - STARTING CIRCUIT FAULT REPAIRED.'.

**03.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**07.09.1993** Service defect: 'UN - CAM SHAFT - CAMSHAFT OIL FEED UNION REPAIRED. A BANK 2, 3, AND 5 FUEL PUMP FOLLOWER O RINGS REPLACED.'.

**14.09.1993** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.

**14.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**15.09.1993** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED BY J. DRAZENOVITCH AT LONGFORD.'.

**08.10.1993** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.

**08.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND BRAKES ADJUSTED.'.

**21.10.1993** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.

**21.10.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - NOSE ELECTRICAL CUBICLE BLOWN OUT ON 16/10/93'.

**10.11.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO DRAINS CLEARED.'.

**10.11.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJ.'.

**03.02.1994** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE BLOWER REPLACED DUE TO FLASHOVER.'.

**16.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.

**18.02.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD TANK TESTED AND LOAD REGULATOR REPAIRED.'.

**05.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.

**29.03.1994** Service defect: 'UN - TRACTION MOTOR - NUMBER 1 TRACTION MOTOR REPLACED.****'.

**03.05.1994** Service defect: 'TW - ELECTRICAL MISC. AC/DC RELAYS - ACC RELAY CONTACTS REPLACED.'.

**03.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE.'.

**10.05.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - ACC CONTACTOR REPLACED.'.

**10.05.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED WHEELSLIP. CHECKED AND NO FAULT FOUND.'.

**14.07.1994** Service defect: 'B - BOGIE - DERAIL BAR BOLTS TIGHTENED. LUBRICATOR BOX SECURED.'.

**14.07.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - AIR LEAK IN MC1 REPAIRED. STEP LIGHT WIRING REPAIRED.'.

**14.07.1994** Service defect: 'B - EXHAUST - EXHAUST BELLOWS GASKETS REPLACED.'.

**14.07.1994** Service defect: 'B - FUEL SYSTEM - FUEL TANK CRACK REPAIRED.'.

**14.07.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 TRACTION MOTOR BRUSHES REPLACED.'.

**23.07.1994** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR FAILURE DUE TO NO OIL. COMPRESSOR REPLACED.**********'.

**22.03.1995** Service defect: 'UN - ENGINE - MAIN ENGINE BEARING FAILURE. STORED FOR OVERHAUL.'.

**06.02.1996** Service defect: 'F - ENGINE - THIS LOCO HAS BEEN STORED SINCE 22/03/95 AND HAS HAD ENGINE ALTERNATOR, BOGIES, AND NECESSARY WIRING OVERHAULED.'.

**06.02.1996** Service defect: 'F - GENERAL - PLACED BACK INTO SERVICE TODAY.'.

**06.02.1996** Service defect: 'F - NO FAULT FOUND - MAJORITY OF WORK DONE BY OUTSIDE CONTRACTORS. AS MOST OF LOCOMOTIVE

OVERHAULED HAVE CALLED THIS AN F SERVICE.'.

**ZA 6**

Details: locomotive 'ZA 6 N' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 97.5tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $464310
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L32
**Date Built:** 28.06.1976
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1900kw
**BSG Code:** LTAW

| | | | |
|---|---|---|---|
| Fleet Grp Code: | AH | | |
| Return to Service Date: | 10.09.1996 | | |
| Last Lift: | 07.12.1989 | | |
| A Service Mileage: | 246620 KM | A Service Date: | 13.09.1994 |
| B Service Mileage: | 251025 KM | B Service Date: | 21.10.1994 |
| C Service Mileage: | 336356 KM | C Service Date: | 09.05.1996 |
| F Service Mileage: | 0 KM | A Service Date: | 07.12.1989 |
| US Service Mileage: | 369510 KM | A Service Date: | 10.09.1996 |

**28.07.1989** Service defect: 'UN - BOGIE - BOGIES FITTED FROM ZA5.'.
**28.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**28.07.1989** Service defect: 'UN - GENERAL - 'A'SERVICE.'.
**07.12.1989** Service defect: 'UN - BOGIE - 'F'SERVICED BOGIES NO.F18 & 9 FITTED.'.
**07.12.1989** Service defect: 'UN - ENGINE - PISTON THROUGH BLOCK.ENGINE OUT OF ZB8 FITTED.'.
**21.12.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**23.04.1990** Service defect: 'TW - GENERAL - *LOCO BOOKED OUT ON 20-04-90.'.
**18.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**24.05.1990** Service defect: 'UN - ENGINE WATER LEAK - LEAKING WATER PUMP CHANGED, LOOSE RELIEF VALVE TIGHTENED.'.
**24.05.1990** Service defect: 'UN - FUEL SYSTEM - FAULTY FUEL GAUGE CHANGED,'.
**20.06.1990** Service defect: 'B - ENGINE WATER LEAK - WATER RAIL TIGHTENED ON 'A'BANK.'.
**20.06.1990** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - RENEWED PULLEY ON FAN.'.
**20.06.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**06.09.1990** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - CLUTCH CLEANED.'.
**06.09.1990** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - D/SIDE H/LIGHT SWITCH REPAIRED.'.
**06.09.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL'.
**06.09.1990** Service defect: 'B - ENGINE WATER LEAK - WATER LEAKS REPAIRED.'.
**06.09.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 029822K/M.'.
**06.09.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**06.09.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**06.09.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (3)BRUSHES REPL.'.
**27.11.1990** Service defect: 'B - AUXILLARY MACHINES - F/S STARTER MOTOR REPOSITIONED'.
**27.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**27.11.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - STARTING CONTACTOR REPAIRED'.
**27.11.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 LAMPS REPLACED'.
**27.11.1990** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO WATER PIPE REPAIRED'.
**27.11.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 041343KM.'.
**27.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE PIPES REPAIRED,PIVIT REPAIRED,BLOWER DRAIN UNBLOCKED'.
**27.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 1 CENTRE COUPLING AND DRAFT BLOCK REPLACED, 1 CENTRE COUPLING BUSH REPLACED AND WELDED'.
**27.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED'.
**27.11.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BLOCKS REPLACED'.
**18.04.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**18.04.1991** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - WATER PIPE ON TOP OF BLOWER TIGHTENED'.
**18.04.1991** Service defect: 'C - GENERAL - SPEEDO ON LOCO READ 046124KM.'.
**18.04.1991** Service defect: 'C - MECHANICAL EQUIPMENT - 6 SUSPENSION OIL PADS RENEWED'.
**18.04.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**21.05.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - 6 GLOBES REPLACED'.
**21.05.1991** Service defect: 'TW - GENERAL - [A| SERVICE'.
**21.05.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - LEAKING FLOW METER REPAIRED'.
**21.05.1991** Service defect: 'TW - RADIO REPAIR - RADIO HANDSET REPLACED,'.
**30.05.1991** Service defect: 'UN - CONTACTOR INTERLOCKS - AUXILLARY CONTACTS ON M.C.3.REPAIRED,FIELD DIVERSION TESTED O.K.'.
**30.05.1991** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK REPAIRED'.
**15.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**22.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL TEST AND PHOTOS TAKEN'.
**06.07.1991** Service defect: 'UN - ENGINE WATER LEAK - ALL WATER LEAKS REPAIRED'.
**10.07.1991** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BRAKE TESTED OK.'.

**10.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CONTROL EARTHS CLEARED'.
**10.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - INDEPENDANT BRAKE CUT-OUT SWITCH REPLACED'.
**10.07.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**19.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**19.07.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT BRAKE CUT-OUT SWITCH REPLACED'.
**26.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - LOCO OIL REPLACED WITH CALTEX MULTIGRADE'.
**10.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - D/S WIPER REPAIRED'.
**10.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED'.
**21.08.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH WHEELSLIP'.
**24.08.1991** Service defect: 'UN - GENERAL - LOCO CHECKED OK.'.
**31.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - STATIC CONVERTER REPLACED A/C RADIO & PANEL LIGHTS NOT WORKING'.
**12.09.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.
**14.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK.'.
**04.10.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - 1 FLANGE LUBE NOZZLE RENEWED,1 FLANGE LUBE PIPE REPLACED'.
**04.10.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - REPLACED CONTACTS IN DYNAMIC BRAKE CUBICLE'.
**04.10.1991** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - FRONT HEADLIGHT SWITCH REPLACED'.
**04.10.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - LENS IN FRONT MARKER LIGHT REPLACED'.
**04.10.1991** Service defect: 'B - ENGINE WATER LEAK - ALL WATER LEAKS REPAIRED'.
**04.10.1991** Service defect: 'B - FUEL SYSTEM LINES - FUEL LEAKING INTO BATTERY BOX REPAIRED'.
**04.10.1991** Service defect: 'B - MECHANICAL EQUIPMENT - BOTH OIL COOLERS REPLACED'.
**04.10.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED,BRAKE PISTON CLAMP BOLT TIGHTENED'.
**04.10.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - BRUSHES IN NO.6 T/M REPLACED'.
**12.10.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK.'.
**09.05.1992** Service defect: 'UN - FUEL SYSTEM PUMP - SIEZED FUEL PUMP A BANK #4 REPLACED.'.
**15.05.1992** Service defect: 'UN - LUBRICATING SYSTEM - MULTIGRADE OIL TANK TOPPED UP.'.
**15.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.06.1992** Service defect: 'TW - ENGINE CYLINDER HEADS - NUMBERS 4,5&6 A BANK CYLINDER HEADS REPLACED.'.
**23.06.1992** Service defect: 'TW - ENGINE LINER - NUMBERS 5&6 A BANK CYLINDER LINERS CHANGED.'.
**23.06.1992** Service defect: 'TW - ENGINE PISTON - NUMBERS 5&6 A BANK PISTONS REPLACED.'.
**23.06.1992** Service defect: 'TW - ENGINE TURBOCHARGER/SUPERCHARGER - OVERHAULED TURBOCHARGER FITTED.'.
**24.06.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED DROPPING AMPS UNDER FULL POWER. COULD NOT BE FAULTED.'.
**29.06.1992** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - WHEEL SLIP RELAY REPLACED.'.
**29.06.1992** Service defect: 'TS - TRACTION MOTOR EARTH - NUMBER 6 TRACTION MOTOR CHANGED DUE TO EARTH FAULT.'.
**07.07.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND FLAW TEST CARRIED OUT ON AXLES. NUMBER 5&6 AXLE BOX SPACERS RENEWED'.
**07.07.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - OIL BOX WICKS CHECKED.'.
**07.07.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - M2 AND M3 CONTACTS REPLACED.'.
**07.07.1992** Service defect: 'B - COOLING SYSTEM - WATER LEAK IN RADIATOR COMPARTMENT REPAIRED. WATER RAIL HOSES TIGHTENED.'.
**07.07.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FIREMANS SIDE CAB LIGHT REPAIRED. REAR FIREMANS SIDE MARKER LENS REPLACED. FUEL GAUGE LIGHT LENS REPLACED.'.
**07.07.1992** Service defect: 'B - FUEL SYSTEM LINES - HIGH PRESSURE PIPE RENEWED ON #5 B BANK INJECTOR. TWO FUEL HOSES RENEWED.'.
**07.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT - ONE FLANGE LUBE NOZZLE RENEWED.'.
**07.07.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - FOUR BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.
**16.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE SLIDING WINDOW REPLACED.'.
**25.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - JAMMED CAB DOOR LOCK REPAIRED.'.
**21.08.1992** Service defect: 'TW - LUBRICATING SYSTEM - OIL TRIAL TANK TOPPED UP WITH 256L OF MULTIGRADE OIL.'.
**03.09.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - STARTER MOTOR RELAYS REPAIRED.'.
**03.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - NEW DRIVERS AND FIREMANS SEATS INSTALLED.'.
**20.10.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - CONTROL AIR PRESSURE SWITCH ELECTRICAL PARTS CLEANED.'.
**20.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ENGINE RUN SOLENOID MODIFICATION CARRIED OUT. LOW GOVERNOR OIL CUTOUT MODIFICATION CARRIED OUT.'.
**20.10.1992** Service defect: 'UN - RADIO REPAIR - TRANSCEIVER UNIT IN PHONE REPLACED.'.
**20.10.1992** Service defect: 'UN - STARTER MOTOR - TWO NEW STARTER MOTORS INSTALLED.'.
**22.10.1992** Service defect: 'TW - COOLING SYSTEM - WATER LEAK REPAIRED.'.

**29.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WING NUT FITTED TO OIL FILLER CAP.'.
**29.10.1992** Service defect: 'UN - RADIO REPAIR - PHONE FAULT REPORTED. NO FAULT FOUND.'.
**06.11.1992** Service defect: 'UN - COOLING SYSTEM - LEAKING HEADER TANK REPAIRED.'.
**06.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**11.11.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - 2 SPRING HANGER SADDLES REPLACED.'.
**11.11.1992** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK REPAIRED MID JOINT ON WATER RAIL.'.
**13.11.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEADLIGHT KNOB REPOSITIONED.'.
**13.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE BELT REPLACED.'.
**20.11.1992** Service defect: 'B - BLOCKED FILTERS - PONGLASS FILTERS CLEANED AND REPAIRED.'.
**20.11.1992** Service defect: 'B - BOGIE MAINTENANCE - WICKS - AXLE PADS REPLACED ON NUMBER 1 AND 2 AXLES OPPOSITE GEAR.'.
**20.11.1992** Service defect: 'B - COOLING SYSTEM - WATER PIPE FITTING TIGHTENED ABOVE TURBOCHARGER.'.
**20.11.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**20.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE PIPE REPAIRED.'.
**20.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - COUPLING RELEASE BAR STRAIGHTENED.'.
**20.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**20.11.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND BRAKES ADJUSTED. PIPE FITTING TIGHTENED UNDER MAIN RESERVOIR TANK.'.
**20.11.1992** Service defect: 'B - NO FAULT FOUND - ELECTRICAL SERVICE SHEET REPORTED NO PARTS RENEWED OR EXTRA ATTENTION REQUIRED.'.
**28.11.1992** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP'.
**15.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED WHEEL SLIP FAULT. CHECKED AND NO FAULT FOUND.'.
**19.12.1992** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES. JUMP STARTED AND RUN TO CHARGE BATTERIES.'.
**19.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**19.12.1992** Service defect: 'UN - NO FAULT FOUND - VOLTAGE REGULATOR CHECKED AND NO FAULT FOUND.'.
**21.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED WHEEL SLIP ON TRACTION MOTORS 1 & 6. CHECKED AND NOFAULT FOUND.'.
**27.01.1993** Service defect: 'TW - RADIO REPAIR - PHONE FAULT REPAIRED.'.
**03.02.1993** Service defect: 'UN - COOLING SYSTEM WATER PUMP - A BANK WATER PUMP REPLACED.'.
**12.02.1993** Service defect: 'UN - COOLING SYSTEM - COOLING WATER LEAK REPAIRED.'.
**17.02.1993** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE TO PANEL LIGHTS REPAIRED.'.
**17.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**17.02.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED FLAT WHEELS. CHECKED AND NO FAULT FOUND.'.
**05.03.1993** Service defect: 'TW - COOLING SYSTEM - COOLING WATER LEAKS REPAIRED.'.
**05.03.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**16.03.1993** Service defect: 'C - COOLING SYSTEM - WATER RAIL JOINTS TIGHTENED UP.'.
**16.03.1993** Service defect: 'C - COOLING SYSTEM RADIATOR - 3 RADIATOR ELEMENTS REPLACED ON DRIVERS SIDE.'.
**16.03.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**16.03.1993** Service defect: 'C - EXHAUST - 2 EXHAUST BELLOWS REPLACED. EXHAUST PLUG REPLACED ON A BANK.'.
**16.03.1993** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FRONT SPLINE SHAFT COUPLING REPLACED.'.
**16.03.1993** Service defect: 'C - MECHANICAL EQUIPMENT - SLUDGE TANK UNBLOCKED.'.
**19.03.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB FAN FELL DOWN. FAN REPOSITIONED.'.
**27.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - STIFF BRAKE PIPE COCKS FREED UP. BRAKES ADJUSTED.'.
**02.04.1993** Service defect: 'TS - COOLING SYSTEM - TRACK STOPPAGE DUE TO SHUTTING DOWN. THOUGHT TO BE CAUSED BYLOW WATER. WATER LEAKS ABOVE TURBOCHARGER REPAIRED.'.
**10.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.04.1993** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - LEADING FIREMANS SIDE PIVOT BOLT REPLACED.'.
**23.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**04.05.1993** Service defect: 'TW - BOGIE MAINTENANCE - SPRINGS - PIVOTS AND PINTALS REPLACED ON BOTH BOGIES.'.
**24.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**31.05.1993** Service defect: 'UN - STARTER MOTOR - STARTER MOTORS NOT MESHING CORRECTLY. ADJUSTED BY SHIMMING.'.
**04.06.1993** Service defect: 'TS - COOLING SYSTEM - PLASTIC PIPE TO HEADER TANK REPLACED. LEAKING WATER FITTING REPAIRED ON B SIDE CHARGE COOLER.'.
**09.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - 1 OIL PAD REPLACED ON D/S NUMBER 6 AXLE.'.
**09.06.1993** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - MC1 RELAY REPLACED.'.
**09.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT

SANDING GEAR - 1 SANDER PIPE REPLACED.'.
**09.06.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**19.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CHECKED.'.
**19.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**19.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**22.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DOOR LOCK REPAIRED. CAB SEAT REPAIRS CARRIED OUT.'.
**19.07.1993** Service defect: 'TW - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**19.07.1993** Service defect: 'TW - EXHAUST - EXHAUST BELLOWS REPLACED.'.
**19.07.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**03.08.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.08.1993** Service defect: 'TW - OTHER BODY REPAIRS - FRONT DOOR LOCK REPAIRED.'.
**07.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**12.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**20.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**20.08.1993** Service defect: 'UN - RADIO REPAIR - PHONE REPAIRED.'.
**05.11.1993** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BRAKE RESISTORS REPLACED.'.
**05.11.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRING TO DYNAMIC BRAKE CUBICLE REPLACED.'.
**03.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.02.1994** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTORS MEGGERED.'.
**15.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**10.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**15.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. GOV OIL TOPPED UP.'.
**15.03.1994** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**25.03.1994** Service defect: 'B - CONTACTOR WELDED - MC1 CONTACTS REPLACED.'.
**25.03.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FLOURO CAB LIGHT REPAIRED.'.
**25.03.1994** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE PIPE AND BOX LID REPLACED. WINDOW WIPER REPAIR1 FLYWHEEL COVER REPLACED. CAB DOOR SEALS RENEWED.'.
**25.03.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SANDHOSE PIPES REPLACED.'.
**25.03.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**25.03.1994** Service defect: 'B - OTHER BODY REPAIRS - DERAIL BAR BOLTS REPLACED.'.
**28.03.1994** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - FRONT JUMPER SOCKET REPAIRED. CHECKED BY COUPLING WITH ANOTHER LOCO AND OK.'.
**03.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - WET SANDERS MADE WORKABLE.'.
**03.05.1994** Service defect: 'TW - OTHER BODY REPAIRS - DRIVERS SIDE WINDOW SEAL REPAIRED.'.
**28.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJ'.
**28.06.1995** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - NOT HOLDING AMPS'.

## 2.54 Locomotive classification starting with 'ZB'

### ZB 1

Details: locomotive 'ZB 1 Q' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $202010
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L34
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2350
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Last Lift: | 01.05.1985 | | |
| A Service Mileage: | 670575 KM | A Service Date: | 01.10.1994 |
| B Service Mileage: | 598617 KM | B Service Date: | 27.06.1996 |
| C Service Mileage: | 560368 KM | C Service Date: | 22.08.1992 |
| F Service Mileage: | 0 KM | A Service Date: | 01.05.1985 |
| US Service Mileage: | 618707 KM | A Service Date: | 11.06.1996 |

**12.07.1989** Service defect: 'TS - GENERAL - 'A'SERVICE.'.
**12.07.1989** Service defect: 'TS - MECHANICAL EQUIPMENT BRAKE VALVE - AUTOMATIC BRAKE VALVE RENEWED.'.
**14.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - CHECKED FOR DRAUGHTS.'OK'.'.
**28.07.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE PIPE REPAIRED.'.
**28.07.1989** Service defect: 'B - DYNAMIC BRAKE - (2)D/BRAKE BLOWER MOTOR BRUSHES REPL.'.
**28.07.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.'.
**28.07.1989** Service defect: 'B - ENGINE WATER LEAK - WATER RAIL REPAIRED.'.
**28.07.1989** Service defect: 'B - FUEL SYSTEM - FUEL SEPERATOR TIGHTENED UP.'.

**28.07.1989** Service defect: 'B - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**28.07.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**28.07.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (8)BRUSHES REPL.'.
**28.07.1989** Service defect: 'B - VIGILANCE - INDICATOR LIGHT REPAIRED.'.
**04.08.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**04.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**04.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**04.08.1989** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.
**04.08.1989** Service defect: 'UN - VIGILANCE - REPAIRED VIGILANCE.'.
**09.08.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**14.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 22-12-89'.
**20.03.1990** Service defect: 'TW - CONTACTOR MISCELLANEOUS - AIR LEAK ON MC REPAIRED.'.
**20.03.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - STEP LIGHT REPLACED.'.
**20.03.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED.'.
**22.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**27.03.1990** Service defect: 'UN - ENGINE WATER LEAK - REPAIRED OIL LEAKS.'.
**27.03.1990** Service defect: 'UN - LUBRICATING SYSTEM - REPAIRED OIL LEAKS.'.
**04.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE. *LOCO BOOKED OUT ON 03-05-90 AT 1730HRS.'.
**30.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - F/LUBE BOX REPAIRED & NOZZLE REPL.'.
**30.05.1990** Service defect: 'B - ELECTRICAL MISC. JUMPER CABLES - REAR JUMPER SOCKET CLEANED OUT.'.
**30.05.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPL.'.
**30.05.1990** Service defect: 'B - GENERAL - L/REGULATOR TO BE REPL. NEXT TIME.(DOES NOT LOAD UP ENOUGH)'.
**30.05.1990** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR TOPPED UP'.
**30.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE RECLIPPED, SPEEDO REPLACED. (F/S).'.
**18.09.1990** Service defect: 'B - ENGINE WATER LEAK - HOSES ON W/RAIL TIGHTENED 'B'BANK.'.
**18.09.1990** Service defect: 'B - LUBRICATING SYSTEM - REPAIRED OIL PIPE ON OIL PUMP MOTOR.'.
**18.09.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS REPL.& ADJ.'.
**18.09.1990** Service defect: 'B - VIGILANCE - SONALERT FITTED.'.
**18.09.1990** Service defect: 'B - WHEELSLIP - INSTALLED NEW BELL.'.
**08.01.1991** Service defect: 'B - GENERAL - * SPEEDO ON LOCO READ 350747 KM.'.
**08.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BLOCKS REPLACED'.
**08.01.1991** Service defect: 'B - OTHER BODY REPAIRS - ROOF REPAIRED'.
**11.04.1991** Service defect: 'B - AUXILLARY MACHINES - 2 FUEL PUMP BRUSHES REPLACED,COMMUTATOR STONED'.
**11.04.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 GLOBES REPLACED'.
**11.04.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 1 M.R.PIPE RENEWED,2 PLATES ON BOGIES RENEWED'.
**11.04.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE WORKABLE 1 SAND HOSE REPLACED'.
**11.04.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 10 BRAKE BLOCKS REPLACED'.
**11.04.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 T/M BRUSHES REPLACED'.
**04.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SPEEDO TRANSMITTER UNIT FAULT RECTIFIED'.
**04.06.1991** Service defect: 'TS - FUEL SYSTEM - FUEL TANK REMOVED & REPAIRED'.
**04.06.1991** Service defect: 'TS - STARTER MOTOR - 2 STARTER MOTORS REPLACED'.
**08.06.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV.OIL TOPPED UP'.
**08.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 371972KM.'.
**08.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - LEAKING CAB WINDOWS SEALED'.
**12.06.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BROKEN WIRE TO COMPRESSOR CUT-OUT REPAIRED & LOCO TESTED O.K'.
**14.06.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - NO FAULT FOUND WITH P.C.1.'.
**19.06.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV. OIL TOPPED UP'.
**19.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 373962KM.'.
**19.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED'.
**19.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - REAR CAB DOOR RUBBERS REPLACED A/C DRAUGHTS'.
**21.06.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED,TESTED O.K.'.
**22.06.1991** Service defect: 'TS - RADIO REPAIR - RADIO REPLACED'.
**25.06.1991** Service defect: 'UN - STARTER MOTOR - FAULTY STARTER MOTOR SOLONOID REPLACED'.
**01.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BOOST DETECTION TIMER SNAP SWITCH REPLACED'.
**03.07.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - B.D.R.REPAIRED'.
**03.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADER ADJUSTED'.
**06.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT

- DERAILMENT DAMAGE REPAIRED'.

**12.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**12.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO SPEAKER MOUNTING BOLT REPLACED,WIRING REPAIRED'.

**18.07.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - 1 FLANGE LUBE BOX REPAIRED,1 FLANGE LUBE NOZZLE REPLACED'.

**18.07.1991** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - T.D.R.1 & T.D.R.2 SQUARE D SWITCHES REPLACED'.

**18.07.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 7 GLOBES REPLACED,EDDY CURRENT CLUTCH CLEANED'.

**18.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 3 BELLOWS REPLACED'.

**18.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND VALVE REPLACED'.

**18.07.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED & ADJUSTED'.

**25.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH RADIO'.

**25.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - OIL WASHED OFF FOOTPLATE'.

**26.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OBSERVERS SIDE WIPER ADJUSTMENT NUT TIGHTENED'.

**27.09.1991** Service defect: 'TS - ENGINE - ENGINE REPLACED WITH ENGINE OUT OF ZC 7.'.

**28.09.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BROKEN WIRE AT REAR T/M BLOWER FAILURE SWITCH REPAIRED'.

**01.10.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRING TO WATER TEMPERATURE SWITCHES REPAIRED'.

**01.10.1991** Service defect: 'TS - GENERAL - *** A SERVICE COMPLETE ***'.

**09.10.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP'.

**11.10.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP'.

**15.10.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.

**16.10.1991** Service defect: 'UN - NO FAULT FOUND - RECTIFIER RESET & TESTED OK.'.

**29.10.1991** Service defect: 'TS - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED'.

**30.10.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETE **'.

**05.11.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL EARTHS CLEARED'.

**13.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKESS ADJUSTED'.

**18.11.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP'.

**25.11.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP'.

**25.11.1991** Service defect: 'UN - NO FAULT FOUND - WATER LEAK NOT FOUND'.

**25.11.1991** Service defect: 'UN - RADIO REPAIR - U.H.F. RADIO REPAIRED'.

**10.12.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED'.

**19.12.1991** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - DROPPING AMPS'.

**31.01.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE OVER CHARGING.*B SERVICE COMPLETED*'.

**07.05.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - RECTIFIER RELAY CONTACTS WELDED TOGETHER, RELAY REPLACED.'.

**07.05.1992** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTOR EARTH LINK REPLACED.'.

**12.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - RAINWATER LEAK AROUND ANTENNAE RECTIFIED.'.

**12.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO FAULT REPAIRED.'.

**15.05.1992** Service defect: 'UN - DYNAMIC BRAKE - REPORTED DYNAMIC BRAKE FAULT SEEMED TO OCCUR ONLY WHEN COUPLED TO ZB12. NO FAULT FOUND.'.

**15.05.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRE IN D/S HEATER REPAIRED.'.

**15.05.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY OVER VOLTAGE.'.

**27.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDOMETER LAMP REPLACED.'.

**27.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**01.06.1992** Service defect: 'TW - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.

**01.06.1992** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**05.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE HEAD BOLTS REPLACED.'.

**05.06.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED AMPING FAULT WHEN COUPLED TO ZB11. NO FAULT COULD BE FOUND. FAULT THOUGHT TO BE IN ZB11.'.

**12.06.1992** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED.'.

**12.06.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HIGH SPEED FAN AND OVER TEMP SWITCHES REPLACED ON WATER RAIL.'.

**18.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - DRIVERS SEAT REPLACED.'.

**18.06.1992** Service defect: 'UN - NO FAULT FOUND - HEATERS CHECKED, NO FAULT FOUND.'.

**18.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.

**22.06.1992** Service defect: 'UN - GENERAL - DIRTY CAB CLEANED.'.

**22.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - RUBBER REPLACED IN BRAKE PIPE COCK.'.

**22.06.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED DYNAMIC BRAKE FAULT. NO FAULT FOUND.'.

**01.07.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED FAULT IN DRIVERS SIDE FUEL FILLER. NO

FAULT FOUND.'.
**01.07.1992** Service defect: 'TW - OTHER BODY REPAIRS - COW CATCHER STRAIGHTENED.'.
**11.07.1992** Service defect: 'TS - BROKEN PIPE - BROKEN THROTTLE PIPE REPAIRED.'.
**11.07.1992** Service defect: 'TS - COOLING SYSTEM - WATER LEAK IN PIPE ABOVE CHARGE COOLER REPAIRED.'.
**15.07.1992** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE IN DRIVERS SIDE CAB LIGHT REPAIRED.'.
**15.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDOMETER RESISTANCE LAMP REPLACED.'.
**21.07.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAULT EXISTS ON THIS LOCO BUT ALLOWED TO GO BACK INTO SERVICE. FAULT WILL BE CHECKED ON THURS 23/7/92.'.
**25.07.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAULT REPAIRED BY RUNNING NEW 8B WIRE FROM FRONT TO BACK TERMINAL STRIPS.'.
**25.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CLOCK MAINSPRING REPLACED.'.
**30.07.1992** Service defect: 'TW - LUBRICATING SYSTEM - LEAKING FITTING ON OIL RAIL REPAIRED.'.
**30.07.1992** Service defect: 'TW - NO FAULT FOUND - FAULT REPORTED IN RADIO/PHONE POWER SUPPLY. TESTED AND FOUNDTO BE OK.'.
**31.07.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.
**31.07.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**22.08.1992** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO BLOWER DRAIN CLEANED OUT.'.
**22.08.1992** Service defect: 'C - MECHANICAL EQUIPMENT - 1 GREASE NIPPLE REPLACED, 1 WIPER BLADE RENEWED.'.
**22.08.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 2 SANDERS MADE WORKABLE. 2 SAND HOSES REPLACED.'.
**22.08.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**22.08.1992** Service defect: 'C - MECHANICAL MAINTENANCE - SPEEDOMETER - ERRATIC WORKING OF SPEEDOMETER RECTIFIED BY CHANGING AXLE DRIVE UNIT.'.
**22.08.1992** Service defect: 'C - NO FAULT FOUND - NO ENTRY RECORDED IN ELECTRICAL SERVICE SHEET FOR ATTENTION OR PARTS RENEWED.'.
**01.09.1992** Service defect: 'UN - TRACTION MOTOR EARTH - NUMBERS 1 AND 5 TRACTION MOTORS REPLACED (EARTH FAULTS).'.
**10.09.1992** Service defect: 'UN - TRACTION MOTOR - NUMBERS 1, 5 AND 6 TRACTION MOTORS REPLACED.'.
**19.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LEAKING JOINT REPAIRED ON PIPE FROM MAIN RESERVOIR.'.
**21.09.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**26.09.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**01.10.1992** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - EARTHS IN CONTROL CICUIT REMOVED.'.
**02.10.1992** Service defect: 'UN - BATTERY MAINTENANCE - ENGINE PRIMING PUMP WOLD NOT RUN. 6 BATTERIES REPLACED.'.
**07.10.1992** Service defect: 'UN - GENERAL ACCIDENT - FRONT COW CATCHER AND STEPS DAMAGED IN COLLISION WITH CATTLECOW CATCHER OK AND LET GO, STEPS REPAIRED.'.
**15.10.1992** Service defect: 'UN - AUXILLARY MACHINES - AUXILLIARY ALTERNATOR REPLACED.'.
**15.10.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**24.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**29.10.1992** Service defect: 'TW - BATTERY MAINTENANCE - 4 BATTERIES REPLACED.'.
**14.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**25.11.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - NOISE IN REAR TRACTION MOTOR BLOWER CAUSED BY LOOSE FAN SHROUD. REPAIRS CARRIED OUT.'.
**27.11.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - FRONT TRIMOUNTS REPLACED.'.
**27.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WIPER MOTOR REPAIRED.'.
**02.12.1992** Service defect: 'TW - ENGINE TURBOCHARGER/SUPERCHARGER - A BANK CHARGE COOLER REPLACED.'.
**02.12.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTERS REPAIRED.'.
**10.12.1992** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - BROKEN WIRE TO TRACTION MOTOR BLOWER SWITCH REPAIRED.'.
**11.12.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.
**22.12.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION PERFORMED ON AXLES.'.
**22.12.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**22.12.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL COOLER RUBBERS REPLACED ON B SIDE.'.
**22.12.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**22.12.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**12.01.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - INSTRUMENT LIGHTS REPAIRED.'.
**19.02.1993** Service defect: 'UN - NO FAULT FOUND - LOW AMPS FAULT REPORTED. NO FAULT FOUND.'.
**12.03.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED.'.
**22.03.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BURNT OUT PTR COIL IN VIGILANCE REPLACED.'.
**25.03.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - FAULT HORN BLOWING IN

DYNAMIC BRAKE. CAUSED BY FAULTY WIRING. THIS WIRING LOOM TO BE REPLACED AS SOON AS POSSIBLE.'.

**05.04.1993** Service defect: 'TW - NO FAULT FOUND - EARTH FAULTS REPORTED. CHECKED AND NO FAULT FOUND.'.

**10.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - REPORTED BRAKES UNABLE TO RELEASE. CHECKED AND NO FAULT FOUND. BRAKES ADJUSTED.'.

**15.04.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION OF ALL AXLES CARRIED OUT.'.

**15.04.1993** Service defect: 'B - COOLING SYSTEM - REPAIRED WATER PIPE ABOVE HEADER TANK.'.

**15.04.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**15.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**15.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.

**15.04.1993** Service defect: 'B - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.'.

**08.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED MAIN CIRCUIT BREAKER TRIPPING. CHECKED AND NO FAULTFOUND.'.

**12.05.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - FIREMANS CAB SEAT REPAIRED.'.

**12.05.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED 1000 AMPS IN FIRST POWER. CHECKED AND NO FAULT FOUND.'.

**21.05.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - SHARP FLANGES NUMBER 1 AND 6 WHEEL SETS REPLACED.'.

**24.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**29.05.1993** Service defect: 'UN - BROKEN PIPE - BROKEN AIR PIPE ON FRONT BOGIE REPAIRED.'.

**24.06.1993** Service defect: 'TS - DYNAMIC BRAKE - FAULT IN DYNAMIC BRAKE CIRCUIT. DRIVER ADVISED NOT TO USE DYNAMIC BRAKE. LOCOMOTIVE TO BE WORKED TO WORKSHOPS.'.

**24.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - 1 WHEEL FLANGE NOZZLE REPLACED.'.

**24.06.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED WHEELSLIP FAULT. CHECKED AND NO FAULT FOUND.'.

**24.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**03.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WIPER MOTORS REPLACED.'.

**03.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**13.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**13.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - RAIN WATER LEAKS REPAIRED IN CAB FRONT WINDOWS.'.

**15.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - INVERTOR REPLACED.'.

**24.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE REPAIRS CARRIED OUT.'.

**28.07.1993** Service defect: 'UN - STARTER MOTOR - B SIDE STARTER MOTOR REPLACED.'.

**30.07.1993** Service defect: 'TW - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.'.

**07.08.1993** Service defect: 'UN - TRACTION MOTOR - NUMBER 1,6,2,&5 TRACTION MOTORS REPLACED DUE TO WHEELSLIP DAMAGE.'.

**09.08.1993** Service defect: 'TS - NO FAULT FOUND - EARTH FAULT NOT IN THIS LOCO BUT IN ZC39 WHICH WAS COUPLED TTO IT. MORRIE SMITH REPAIRED FAULT IN ZC39 IN HOBART.'.

**14.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIRE ALARM DISCONNECTED DUE TO EARTH FAULT IN WIRING.'.

**14.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**19.08.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHT INVERTOR REPLACED.'.

**28.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**28.08.1993** Service defect: 'UN - VIGILANCE - VIGILANCE CHECKED.'.

**24.09.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO DRAINS CLEARED.'.

**24.09.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE NOZZLE REPLACED. WINSCREEN WIPER REPAIRED. BOLT REPLACED IN A CRATER BOX.'.

**24.09.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 5 SAND HOSES REPLACED.'.

**24.09.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED, 1 BLOCK REPLACED.'.

**24.09.1993** Service defect: 'B - TRACTION MOTOR - NUMBER 3 AND 4 TRACTION MOTORS REPLACED.'.

**04.10.1993** Service defect: 'TW - WHEELSLIP - WHEELSLIP FAULT IN #3 & #4 TRACTION MOTORS REPAIRED WHEN A SERVICE WAS DONE AT QUICK FIX.'.

**04.02.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.

**04.02.1994** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED. TESTED ON LOAD TANK.'.

**15.02.1994** Service defect: 'TW - LUBRICATING SYSTEM - OIL LEAK ON IDLER GEAR FOR WATER PUMP REPAIRED.'.

**18.02.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPLACED. 1 FLANGE LUBE NOZZLE AND PIPE REPLACED.'.

**18.02.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**08.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**02.04.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.

**02.04.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - JUMPER SOCKET REPAIRED.'.

**02.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - AIR LEAK REPAIRED.'.

**02.04.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**02.04.1994** Service defect: 'UN - TRACTION MOTOR - NUMBER 1 TRACTION MOTOR REPLACED.**********'.
**16.05.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FUEL PRIMING PUMP COMMUTATOR CLEANED UP AND BRUSHES REPLACED'.
**01.06.1994** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - MC RELAYS REPLACED WITH OVERHAULED UNITS.**********'.
**01.06.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VIGILANCE FAULT REPAIRED. LOAD TANK TESTED.'.
**01.06.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED.**********'.
**09.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT COUPLER - TRAILING CENTRE COUPLING BLOCK TO INSPECT SAYS LOCO FOREMAN.'.
**30.06.1994** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - DYNAMIC BRAKE BLOCK REPLACED ON SIDE OF GOVERNOR.'.
**07.07.1994** Service defect: 'UN - ENGINE LINER - NUMBER 2A CYLINDER LINER REPLACED DUE TO CAVITATION DAMAGE.'.
**25.08.1994** Service defect: 'UN - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.**********'.
**03.08.1995** Service defect: 'UN - NO FAULT FOUND - BROKEN PIPE BOGIE. EARTH FUALT 2 AND 5 UNDER POWER.'.
**99.99.9999** Service defect: 'UN - NO 2 AND 5 TRACTION MOTORS ISOLATED'.

**ZB 2**

Details: locomotive 'ZB 2 C' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $128100
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** Q 39M
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2351
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 16.08.1996 | | |
| Last Lift: | 01.05.1984 | | |
| A Service Mileage: | 581235 KM | A Service Date: | 24.08.1994 |
| B Service Mileage: | 687743 KM | B Service Date: | 03.07.1996 |
| C Service Mileage: | 629334 KM | C Service Date: | 21.06.1995 |
| F Service Mileage: | 0 KM | A Service Date: | 01.05.1984 |
| US Service Mileage: | 698832 KM | A Service Date: | 16.08.1996 |

**19.07.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE BOX & REAR WHEEL FLANGE SOLENOID RENEWED.'.
**19.07.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE PIPE RENEWED.'.
**19.07.1989** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - COVER RENEWED.'.
**19.07.1989** Service defect: 'B - ELECTRICAL MISC - LOAD REGULATOR - POTENTIOMETER CLEANED & COVER REPL.'.
**19.07.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (2)LAMPS REPL.'.
**19.07.1989** Service defect: 'B - ENGINE WATER LEAK - REPAIRED WATER PIPE FROM BLOWER & WATER RAIL 'A'BANK.'.
**19.07.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**19.07.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - RELAY VALVE RENEWED.'.
**19.07.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**26.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**26.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - FRONT DOOR REPAIRED.'.
**27.07.1989** Service defect: 'TS - NO FAULT FOUND - CHECKED FOR OIL LEAKS (CLEANED FOOTPLATE)'.
**28.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**28.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**19.09.1989** Service defect: 'UN - STARTER MOTOR - STARTER MOTOR REPL.'.
**22.09.1989** Service defect: 'UN - NO FAULT FOUND - STARTER MOTORS CHECKED 'OK'.'.
**04.10.1989** Service defect: 'C - BOGIE - (1)F/LUBE HOUSING & OIL PIPE REPL.'.
**04.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**04.10.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.& (4)INSTR.LAMPS REPL.'.
**04.10.1989** Service defect: 'C - ENGINE WATER LEAK - REPAIRED W/LEAK ABOVE TURBO.'.
**04.10.1989** Service defect: 'C - FUEL SYSTEM - L/HAND SIDE FUEL GAUGE REPAIRED.(LEAKING)'.
**04.10.1989** Service defect: 'C - FUEL SYSTEM PUMP - NO.5 'A'BANK FUEL LEAK REPAIRED'.
**04.10.1989** Service defect: 'C - MECHANICAL EQUIPMENT - (3)SPLIT PINS REPL.ON CONNECTING ROD.(MISSING.)'.
**04.10.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL.'.
**04.10.1989** Service defect: 'C - TRACTION MOTOR - GREASE NIPPLE ON T/MOTOR NO.3&4 REPL.'.
**04.10.1989** Service defect: 'C - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**10.10.1989** Service defect: 'UN - COOLING SYSTEM - FAN BELT TIGHTENED.'.
**10.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**11.10.1989** Service defect: 'UN - COOLING SYSTEM - FAN BELT TIGHTENED.'.
**11.10.1989** Service defect: 'UN - NO FAULT FOUND - RADIO

TESTED ‘OK’.’.
**18.10.1989** Service defect: ‘UN - AUXILLARY MACHINES - RECTIFIER RESET.’.
**18.10.1989** Service defect: ‘UN - LUBRICATING SYSTEM - REPAIRED BROKEN OIL PIPE.(WELDED).’.
**20.10.1989** Service defect: ‘UN - NO FAULT FOUND - AMPS & F/HORN TESTED ‘OK’.’.
**27.10.1989** Service defect: ‘UN - LUBRICATING SYSTEM - PIPE TO FUEL PRESSURE GAUGE REPAIRED.’.
**02.11.1989** Service defect: ‘UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES).’.
**10.11.1989** Service defect: ‘TW - ELECTRICAL MISCELLANEOUS - SHUTDOWN ROD ADJ.’.
**10.11.1989** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**20.11.1989** Service defect: ‘UN - ELECTRICAL MISC. AC/DC RELAYS - MCS4 & BMR RELAYS REPL.’.
**20.11.1989** Service defect: ‘UN - STARTER MOTOR - D/SIDE STARTER MOTOR REPL.’.
**12.03.1990** Service defect: ‘B - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE SECURED.’.
**12.03.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (2)GLOBES REPLACED,ALL CONTACTS TRUED AND STEP LIGHT REPD.’.
**12.03.1990** Service defect: ‘B - GENERAL - *LOCO BOOKED OUT ON 18-12-89.’.
**12.03.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BRAKE BLOCKS CHANGED AND ADJUSTED.’.
**12.03.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - (18)TRACTION MOTOR BRUSHES REPLACED.’.
**13.03.1990** Service defect: ‘B - GENERAL - LOCO BOOKED OUT ON 18-12-89.SPEEDO READ 246811K/M.’.
**13.03.1990** Service defect: ‘TS - GENERAL - *LOCO BOOKED OUT ON 19-12-89.SPEEDO READ 246834K/M.’.
**26.03.1990** Service defect: ‘B - BOGIE MAINTENANCE - WHEELS - W/FLANGE LUBRICATOR SOLENOID REPAIRED.’.
**26.03.1990** Service defect: ‘B - CONTACTOR MISCELLANEOUS - MC.2 REPLACED.’.
**26.03.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPLACED.’.
**26.03.1990** Service defect: ‘B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO BLOWER CHANGED.’.
**26.03.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.’.
**26.03.1990** Service defect: ‘B - RADIO REPAIR - RADIO NUMBER 26974 INSTALLED.’.
**26.03.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPLACED.’.
**23.04.1990** Service defect: ‘UN - GENERAL - *LOCO BOOKED OUT ON SAT.14-04-90.’.
**23.04.1990** Service defect: ‘UN - STARTER MOTOR - STARTER MOTOR RENEWED.’.
**02.05.1990** Service defect: ‘UN - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR DOOR SWITCH ADJ.’.
**02.05.1990** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**17.05.1990** Service defect: ‘TW - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBE NOZZLE & CRATER BOX RENEWED (SPLIT).’.
**17.05.1990** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**17.05.1990** Service defect: ‘TW - NO FAULT FOUND - D/BRAKE TESTED ’OK’.’.
**21.05.1990** Service defect: ‘UN - FUEL SYSTEM - FUEL LEAK STOPPED.’.
**21.05.1990** Service defect: ‘UN - LUBRICATING SYSTEM - OIL LEAK STOPPED.’.
**21.05.1990** Service defect: ‘UN - NO FAULT FOUND - FAULT HORN OK.’.
**24.05.1990** Service defect: ‘TS - GENERAL - OCO BOOKED OUT 24-05-1990 AT 1600HRS.’.
**30.05.1990** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - F/S STARTER MOTOR REPLACED.’.
**30.05.1990** Service defect: ‘UN - ENGINE GOVERNOR ELECTRICAL - DYNAMIC BRAKE FAULT AND RISING AMPS TRACED TO MALFUNCTION OFGOVERNOR. GOVERNOR CHANGED, LOCO CHECKED OK.’.
**15.06.1990** Service defect: ‘B - GENERAL - *SPEEDO ON LOCO READ 265908K/M.’.
**19.09.1990** Service defect: ‘B - BOGIE MAINTENANCE - WHEELS - REAR F/LUBE SOLENOID REPAIRED.’.
**19.09.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - D.B.7 AIR VALVE & E.P.VALVE ON M.C.2 REPAIRED.’.
**19.09.1990** Service defect: ‘B - GENERAL - *SPEEDO ON LOCO READ 275772K/M.’.
**19.09.1990** Service defect: ‘B - LUBRICATING SYSTEM - REPAIRED LUBE OIL PUMP MOTOR.’.
**19.09.1990** Service defect: ‘B - RADIO REPAIR - RADIO NO.37154 REMOVED AND NO.66674 INSTALLED.’.
**19.09.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - (3)BRUSHES REPL.’.
**07.12.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - 4 LAMPS REPLACED’.
**07.12.1990** Service defect: ‘B - ENGINE - NO.2 HEAD GASKET REPLACED [A| BANK’.
**07.12.1990** Service defect: ‘B - ENGINE WATER LEAK - 4 WATER RAIL HOSES REPLACED’.
**07.12.1990** Service defect: ‘B - GENERAL - * SPEEDO ON LOCO READ 292239 KM.’.
**07.12.1990** Service defect: ‘B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED’.
**07.12.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED’.
**07.12.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - 2 T/M BRUSHES REPLACED’.
**28.03.1991** Service defect: ‘C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED’.
**28.03.1991** Service defect: ‘C - FUEL SYSTEM - NO. 5 [B| FUEL CAM CHANGED’.
**28.03.1991** Service defect: ‘C - GENERAL - SPEEDO ON LOCO READ 308699KM.’.
**28.03.1991** Service defect: ‘C - MECHANICAL EQUIPMENT - 3 EXHAUST MANIFOLD GASKETS REPLACED’.
**28.03.1991** Service defect: ‘C - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED’.
**28.03.1991** Service defect: ‘C - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED’.
**04.06.1991** Service defect: ‘TW - ELECTRICAL MISCELLANEOUS - FIELD DIVERSION TESTED O.K.’.
**04.06.1991** Service defect: ‘TW - GENERAL - SPEEDO ON LOCO READ 322302KM.‘A‘SERVICE’.
**04.06.1991** Service defect: ‘TW - MECHANICAL EQUIPMENT - THROTTLE AIR PRESSURE TESTED O.K.’.
**06.06.1991** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - AMPS CHECKED O.K.’.
**06.06.1991** Service defect: ‘UN - GENERAL - SPEEDO ON

LOCO READ 322876 KM.'.
**13.06.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - T.D.R.1.ADJUSTED'.
**13.06.1991** Service defect: 'UN - STARTER MOTOR - NEW SOLONOID FITTED TO F/S STARTER MOTOR'.
**15.06.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - F/S HEADLIGHT SWITCH WIRING REPAIRED'.
**21.06.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FRONT BOGIE LUBE PIPE REPAIRED,REAR LUBE BOX REPAIRED'.
**21.06.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REAR FLANGE LUBE SOLONOID REPAIRED,6 GLOBES REPLACED'.
**21.06.1991** Service defect: 'B - ENGINE CYLINDER HEADS - NO.3 & NO.6 HEAD GASKETS REPLACED ON 'B' SIDE'.
**21.06.1991** Service defect: 'B - FUEL SYSTEM - H.P. PIPE RENEWED ON 'A' BANK'.
**21.06.1991** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT T/M BLOWER WELDED,REAR YOKE BUSH RENEWED,FRONT SPLINE SHAFT REPLACED'.
**21.06.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER CHANGED'.
**21.06.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 T/M BRUSHES REPLACED'.
**22.06.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - WIRES HANGING OUT OF HEAD LIGHT SWITCH SECURED'.
**25.06.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**25.06.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - BROKEN HEADLIGHT RESISTOR REPLACED'.
**25.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ANNUNCIATOR PANEL RESISTANCE REPAIRED'.
**27.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - INSTRUMENT LIGHT GLOBES REPLACED'.
**27.06.1991** Service defect: 'UN - ,'.
**01.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER REPLACED'.
**08.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**08.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - OIL CLEANED OFF FOOTPLATE'.
**13.07.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - SPLIT TRACTION MOTOR BELLOWS REPLACED'.
**17.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - F/S WIPER BLADE REPLACED'.
**26.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**26.07.1991** Service defect: 'TW - OTHER BODY REPAIRS - OIL WASHED OFF FOOTPLATE'.
**07.08.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK OVER TURBO REPAIRED'.
**07.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**08.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RECTIFIER FAILURE RELAY RESET,LOCO TESTED OK.'.
**22.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**22.08.1991** Service defect: 'TW - OTHER BODY REPAIRS - LEAKING WINDOWS RESEALED'.
**29.08.1991** Service defect: 'UN - RADIO REPAIR - U.H.F. RADIO HANDSET WIRING INSTALLED'.
**05.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED &TESTED OK.'.
**12.09.1991** Service defect: 'UN - ENGINE WATER LEAK - CONNECTIONS ON WATER RAIL TIGHTENED'.
**12.09.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED AT LUBE PRIME MOTOR'.
**17.09.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK AT REAR OF MOTOR REPAIRED'.
**25.09.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH WIRING REPAIRED'.
**25.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HANDSET FOR CELLULAR TELEPHONE STOLEN,NO SPARES AVAILABLE'.
**01.10.1991** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED'.
**01.10.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**04.10.1991** Service defect: 'TW - STARTER MOTOR - F/S STARTER MOTOR REPLACED'.
**13.11.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - REAR JUMPER SOCKET REPAIRED'.
**13.11.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.
**14.11.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH MAIN CIRCUIT BREAKER'.
**21.11.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**19.12.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - FIRE ALARM WARNING'.
**07.05.1992** Service defect: 'UN - WHEELSLIP - EXCESSIVE WHEEL SLIP RECTIFIED BY REPLACING TRACTION MOTOR CONTACT MC1 FOR TRAC MOTORS #1 & #6. TEST RUN PROVED OK.'.
**11.05.1992** Service defect: 'UN - WHEELSLIP - WHEEL SLIP RESISTOR CHANGED.'.
**19.05.1992** Service defect: 'TW - COOLING SYSTEM RADIATOR - WATER LEAK IN PIPE LEADING AWAY FROM RADIATOR-REPAIRED.'.
**21.05.1992** Service defect: 'TW - WHEELSLIP - WHEEL SLIP RESISTOR ADJUSTED.'.
**05.06.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**17.06.1992** Service defect: 'UN - FUEL SYSTEM LINES - HIGH PRESSURE PIPE REPLACED ON #5 FUEL PUMP B BANK.'.
**18.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.06.1992** Service defect: 'TW - VIGILANCE - FAULTY POWER KNOCKOUT SWITCH REPLACED.'.
**01.07.1992** Service defect: 'TS - GENERAL - OIL ON FOOTPLATE BLOWN OUT IN ENGINE EXHAUST. FOOTPLATE CLEANED.'.
**01.07.1992** Service defect: 'TS - VIGILANCE - BROKEN PIPE TO VIGILANCE PANEL REPAIRED.'.
**13.07.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED HAVING SMOKE AND SPARKS EMANATING FROM ELECTRICAL TRUNKING IN COMPRESSOR COMPARTMENT. TEST RUN TOMORROW 14 JUL'.

**22.07.1992** Service defect: 'TS - EXHAUST - NUMBER 1 B BANK EXHAUST BELLOWS AND MANIFOLD BOLTS REPLACED.'.
**22.07.1992** Service defect: 'TS - TRACTION MOTOR - NUMBER 4 TRACTION MOTOR REPLACED DUE TO LOW RESISTANCE WHEN MEGGERED.'.
**31.07.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**05.08.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED. OIL ON FOOTPLATE CLEANED OFF.'.
**05.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.
**13.08.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - AMPS FAULT CAUSED BY FAULT IN PCLR1. FAULT REPAIRED.'.
**13.08.1992** Service defect: 'UN - NO FAULT FOUND - PANEL LIGHTS REPORTED AS DIM. ALLL LAMPS IN PANELS WERE FOUND TO BE OK. FLOURESCENT STRIPS TO BE INSTALLED LATER ON.'.
**13.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - WATER LEAKS AROUND CAB WINDOWS PLUGGED.'.
**22.08.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED.'.
**22.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**25.08.1992** Service defect: 'TS - NO FAULT FOUND - WHEELSLIP REPORTED #3 & #4 TRACTION MOTORS. NO FAULT FOUND.'.
**23.09.1992** Service defect: 'TW - LUBRICATING SYSTEM - LEAK IN SUMP DRAIN REPAIRED.'.
**23.09.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**06.10.1992** Service defect: 'UN - NO FAULT FOUND - ENGINE OIL LEAK REPORTED. ENGINE OIL DID NEED TOPPING UP BUTNO OIL LEAK WAS FOUND.'.
**13.10.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BROKEN WIRES TO FIRE ALARM RELAY REPAIRED.'.
**28.10.1992** Service defect: 'B - BLOCKED FILTERS - PONGLASS FILTERS REPLACED.'.
**28.10.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - WHEEL FLANGE LUBRICATOR SOLENOID REPLACED.'.
**28.10.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 2 AND 3 HEAD GASKETS REPLACED ON B BANK.'.
**28.10.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**28.10.1992** Service defect: 'B - EXHAUST - NUMBER 1 EXHAUST MANIFOLD GASKET REPLACED ON A BANK.'.
**28.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**28.10.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND BRAKES ADJUSTED.'.
**28.10.1992** Service defect: 'B - OTHER BODY REPAIRS - BROKEN CAB WINDOW REPAIRED.'.
**31.10.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.
**06.11.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - CLR 1 CONTACTS CLEANED.'.
**13.11.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED EARTH FAULT, RECTIFIER FAILURE AND WOULD NOT START.NO FAULTS FOUND.'.
**21.11.1992** Service defect: 'UN - COOLING SYSTEM - HOLE WELDED UP IN WATER PIPE NEAR TURBOCHARGER.'.
**21.11.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - AUXILLIARY VOLTAGE REGULATOR REPLACED.'.
**01.12.1992** Service defect: 'TW - DYNAMIC BRAKE - DYNAMIC BRAKE GRIDS STEAM CLEANED. ANQUIP COWLING MODIFICATION CARRIED OUT.'.
**01.12.1992** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - CONTROL EARTH FAULT TRACED TO REAR FLANGE LUBE SOLENOID.'.
**03.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED PC2 STICKING. NO FAULT FOUND.'.
**15.12.1992** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**15.12.1992** Service defect: 'UN - EXHAUST - EXHAUST PIPES REPAIRED AND BELLOWS REPLACED.'.
**24.12.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MC 2 ARC CHUTE RENEWED.'.
**24.12.1992** Service defect: 'UN - FUEL SYSTEM LINES - DRIBBLE PIPE FROM FUEL INJECTOR REPLACED.'.
**24.12.1992** Service defect: 'UN - STARTER MOTOR - B SIDE STARTER MOTOR REPLACED.'.
**24.12.1992** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTOR CABLES REINSULATED.'.
**03.02.1993** Service defect: 'UN - ENGINE - SPARKS EMITTED FROM EXHAUST POSSIBLY CAUSED BRUSH FIRE. STORED UNTIL TOP OVERHAUL CAN BE PERFORMED.'.
**03.02.1993** Service defect: 'UN - STARTER MOTOR - 1 STARTER MOTOR REPLACED. UNABLE TO FIND OUT WHICH ONE AT THIS TIME.'.
**01.09.1993** Service defect: 'TW - ENGINE CYLINDER HEADS - THIS LOCOMOTIVE HAS BEEN STORED FOR OVER 5 MONTHS UNTIL A TOP OVERHAUL COULD BE DONE. THIS HAS NOW BEEN COMPLETED.'.
**01.09.1993** Service defect: 'TW - NO FAULT FOUND - RELEASED BACK INTO SERVICE TODAY.'.
**01.09.1993** Service defect: 'TW - STARTER MOTOR - 2 DELCO REMY STARTER MOTORS INSTALLED OVERHAULED BY ELECTRO REWINDS. **********'.
**15.09.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS HAVE SMALL FLATS. NOT BAD ENOUGH TO NEED REPLACING. ALLOWED TO GO BACK INTO SERVICE.'.
**15.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**15.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**18.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIREMANS SIDE HEATER REPAIRED.'.
**18.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**18.09.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DOOR REPAIRED.'.
**04.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ELECTRICAL MODS CARRIED OUT.**********'.
**04.10.1993** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED.'.

**04.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**08.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED.'.
**19.10.1993** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - LOAD REGULATOR WIRING REPLACED.'.
**19.10.1993** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - NOSE ELECTRICAL CUBICLE BLOWN OUT.****'.
**02.12.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND CHECK OF AXLES.'.
**02.12.1993** Service defect: 'B - COOLING SYSTEM - WATER PIPE TO HEADER TANK TIGHTENED.'.
**02.12.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO DRAINS CLEARED.'.
**02.12.1993** Service defect: 'B - EXHAUST - EXHAUST PLUG REPLACED'.
**02.12.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**13.12.1993** Service defect: 'UN - COOLING SYSTEM - HEADER TANK REPAIRED.'.
**13.12.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**13.12.1993** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED.'.
**13.12.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**04.02.1994** Service defect: 'UN - TRACTION MOTOR EARTH - INSULATION REPAIRED ON ONE CHAFED CABLE TO TRACTION MOTOR NUMBER 3.'.
**09.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HOTPLATE REPAIRED.'.
**09.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPAIRED.'.
**09.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE DOORS REPAIRED.'.
**14.02.1994** Service defect: 'TW - EXHAUST - 5 EXHAUST PLUGS REPLACED.'.
**14.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.
**14.02.1994** Service defect: 'TW - OTHER BODY REPAIRS - COMPRESSOR DOOR SECURED.'.
**15.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**21.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE PRESSURE FAULT REPAIRED.'.
**25.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**08.03.1994** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - TRAILING JUMPER SOCKET REPLACED.'.
**18.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**23.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**14.04.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC1 CONTACTS REPLACED.'.
**14.04.1994** Service defect: 'B - EARTH FAULT MISCELLANEOUS - EARTH FAULT ON AUXILLIARY LIGHTING CIRCUIT REPAIRED. LOOSE CONECTION ON COMPRESSOR GOVERNOR REPAIRED.'.
**14.04.1994** Service defect: 'B - EXHAUST - 4 EXHAUST BELLOWS GASKETS REPLACED. EXHAUST PLUGS REPLACED ON HEADS 3, 4, 5, A BANK'.
**14.04.1994** Service defect: 'B - MECHANICAL EQUIPMENT - 2 MANGANESE PLATES, 1 FRONT WINDOW AND WIPER REPLACED. 3 SANDERS MADE WORKABLE AND 1 FLANGE LUBE PIPE REPLACED.'.
**14.04.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**14.04.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 TRACTION MOTOR BRUSHES REPLACED.'.
**09.05.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.**********'.
**25.05.1994** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - WATER TEMP SWITCH REPLACED.'.
**25.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**25.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS AND ADJ.'.
**14.07.1994** Service defect: 'UN - BOGIE - BOGIE CHANGE CARRIED OUT DUE TO FLAT WHEELS.'.
**14.07.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MC2 REPLACED. WHEEL SLIP RESISTOR REPLACED.'.
**20.07.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - REPORTED AMP FAULT DUE TO FAULT IN AMP METER. METER REPLACED'.

**ZB 3**

Details: locomotive 'ZB 3 L' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $160040
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L34
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2352
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 10.09.1996 | | |
| Last Lift: | 26.03.1986 | | |
| SW Service Mileage: | 373965 KM | SW Service Date: | 03.12.1992 |
| B Service Mileage: | 29034 KM | B Service Date: | 10.07.1996 |
| C Service Mileage: | 278738 KM | C Service Date: | 13.12.1990 |
| F Service Mileage: | 0 KM | A Service Date: | 26.03.1986 |
| US Service Mileage: | 43037 KM | A Service Date: | 10.09.1996 |

**10.07.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - EFC.1 CONTACTOR ADJ.'.

**17.07.1989** Service defect: ‘TW - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.’.
**17.07.1989** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**17.07.1989** Service defect: ‘TW - OTHER BODY REPAIRS - CHECKED FOR DRAUGHTS.’.
**05.09.1989** Service defect: ‘C - BOGIE MAINTENANCE - WHEELS - NO.5 AXLE CRACKED (REPLACED)’.
**05.09.1989** Service defect: ‘C - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.’.
**05.09.1989** Service defect: ‘C - GENERAL - ALL OIL & FUEL FILTERS RENEWED.’.
**05.09.1989** Service defect: ‘C - MECHANICAL EQUIPMENT COUPLER - REPL.FRONT C/COUPLER BOTTOM SUPPORT.’.
**05.09.1989** Service defect: ‘C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**05.09.1989** Service defect: ‘C - MECHANICAL MAINTENANCE - SOUND WARNING - REPAIRED F/ALARM & REPL.HORN WITH WARBLER.’.
**05.09.1989** Service defect: ‘C - TRACTION MOTOR BRUSHES - (30)BRUSHES REPL.’.
**07.09.1989** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT REPAIRED ON PANEL LIGHTS.’.
**02.10.1989** Service defect: ‘UN - EARTH FAULT MISCELLANEOUS - EARTHS REMOVED FROM CONTROL CIRCUITS.’.
**02.10.1989** Service defect: ‘UN - ELECTRICAL MISC. HEADLIGHT - REPAIRED HEADLIGHT.’.
**02.10.1989** Service defect: ‘UN - RADIO REPAIR - REPL.HANDSET.(FAULTY)’.
**02.10.1989** Service defect: ‘UN - WHEELSLIP - REPAIRED RESISTORS.’.
**03.10.1989** Service defect: ‘TW - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.’.
**03.10.1989** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**10.10.1989** Service defect: ‘UN - NO FAULT FOUND - CHECKED FOR EARTH FAULTS ‘OK’.’.
**16.10.1989** Service defect: ‘UN - STARTER MOTOR - ‘A‘SIDE MOTOR REPL.’.
**19.10.1989** Service defect: ‘UN - FUEL SYSTEM INJECTORS - NO.6 INJECTOR REPL.’.
**19.10.1989** Service defect: ‘UN - GENERAL - REPL.SEAT D/SIDE.’.
**19.10.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**26.10.1989** Service defect: ‘UN - BATTERY MAINTENANCE - BATTERIES CHARGED & VOLTS ADJ.’.
**26.10.1989** Service defect: ‘UN - COOLING SYSTEM - WATER CHANGED.’.
**30.10.1989** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**07.11.1989** Service defect: ‘UN - STARTER MOTOR - REPL.PUSH ROD IN D/SIDE MOTOR.(BROKEN)’.
**14.11.1989** Service defect: ‘UN - GENERAL - REPAIRED HAND RAIL.’.
**14.11.1989** Service defect: ‘UN - LUBRICATING SYSTEM - OIL FILLER CAP REPAIRED.’.
**14.11.1989** Service defect: ‘UN - STARTER MOTOR - MOTOR REPL.’.
**07.12.1989** Service defect: ‘B - BOGIE - (2)TRIMOUNTS REPL.ON CAB END’.
**07.12.1989** Service defect: ‘B - CONTACTOR MISCELLANEOUS - ALL CONTACTS CLEANED & TRUED UP.’.
**07.12.1989** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.& STEP LIGHT SECURED.’.
**07.12.1989** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - (6)BLOCKS REPL.’.
**07.12.1989** Service defect: ‘B - TRACTION MOTOR - CABLES SECURED & BRUSH BOX TIGHTENED.’.
**07.12.1989** Service defect: ‘B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.’.
**13.12.1989** Service defect: ‘UN - NO FAULT FOUND - LOCO CHECKED ‘OK’.’.
**12.03.1990** Service defect: ‘UN - GENERAL - *LOCO BOOKED OUT ON 25-01-90.’.
**13.03.1990** Service defect: ‘B - CONTACTOR MISCELLANEOUS - SPRING REPL.ON EFC CONTACT.’.
**13.03.1990** Service defect: ‘B - ELECTRICAL MISC. MODULES - LOOSE WIRES TIGHTENED ON POTENTIOMETER.’.
**13.03.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.& STEP LIGHT SOCKET REPAIRED.’.
**13.03.1990** Service defect: ‘B - FUEL SYSTEM PUMP - ‘A‘BANK NO.1 FUEL PUMP TIGHTENED UP.’.
**13.03.1990** Service defect: ‘B - GENERAL - LOCO BOOKED OUT ON 12-03-90.’.
**13.03.1990** Service defect: ‘B - MECHANICAL EQUIPMENT SANDING GEAR - (1) SAND HOSE RENEWED.’.
**13.03.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - (1)BLOCK CHANGED & ADJ.’.
**13.03.1990** Service defect: ‘B - RADIO REPAIR - RADIO H/SET REPL.’.
**13.03.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - (8)BRUSHES REPL.’.
**10.04.1990** Service defect: ‘TS - GENERAL - *LOCO BOOKED OUT ON SAT.07-04-90.’.
**23.04.1990** Service defect: ‘UN - GENERAL - *LOCO BOOKED OUT ON 20-04-90.’.
**04.05.1990** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**15.06.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.’.
**15.06.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - (6)SETS OF BRUSHES REPL.’.
**04.09.1990** Service defect: ‘B - BOGIE - (2)AXLE BEARING BOXES REPL.’.
**04.09.1990** Service defect: ‘B - ENGINE CYLINDER HEADS - NO.1 ‘B‘BANK HEAD REPL.’.
**04.09.1990** Service defect: ‘B - ENGINE CYLINDER HEADS - NO.5 ‘A‘BANK,NO.5 ‘B‘BANK & NO.6 ‘B‘BANK GASKETS REPL.’.
**04.09.1990** Service defect: ‘B - GENERAL - *SPEEDO ON LOCO READ 242181K/M’.
**04.09.1990** Service defect: ‘B - LUBRICATING SYSTEM - REMOVED OIL PUMP MOTOR REPAIRED & REPL.’.
**04.09.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - NO.1 MOTOR CLEANED & BRUSHES FITTED.’.
**13.12.1990** Service defect: ‘C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED’.
**13.12.1990** Service defect: ‘C - GENERAL - SPEEDO ON LOCO READ 259225KM.’.
**13.12.1990** Service defect: ‘C - MECHANICAL EQUIPMENT - AIR PIPE RENEWED ON FRONT BOGIE,FLANGE LUBE TANK REPAIRED FLANGE LUBE PIPES RENEWED ON FRONT BOGIE’.
**13.12.1990** Service defect: ‘C - MECHANICAL EQUIPMENT

SANDING GEAR - SANDS CLEARED'.
**13.12.1990** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**11.03.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - B.D.R.1 CONTACTOR REPLACED'.
**11.03.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 267209KM.'.
**11.03.1991** Service defect: 'B - MECHANICAL EQUIPMENT - NO.5 OIL BOX REPAIRED,COW CATCHER REPLACED, REAR STEP REPLACED'.
**11.03.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS UNBLOCKED,3 SAND HOSES REPLACED'.
**11.03.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED'.
**11.03.1991** Service defect: 'B - RADIO REPAIR - RADIO REPLACED'.
**21.05.1991** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.
**21.05.1991** Service defect: 'TW - GENERAL - [A| SERVICE'.
**21.05.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED'.
**31.05.1991** Service defect: 'UN - BOGIE - 2 TRI-MOUNTS REPLACED'.
**31.05.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - BLOCKED TURBO DRAIN CLEARED'.
**04.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 1 CAB HEATER REPAIRED,1 CAB HEATER MODIFIED'.
**04.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - T/M BLOWER REPAIRED'.
**06.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - B.C.S.ADJUSTED & VIG.TESTED O.K.'.
**06.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - ALL DRAUGHTS REPAIRED'.
**17.06.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO.2 & 5 T/M REPLACED'.
**16.07.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,NO.4 AXLE BOX REPAIRED,LUBRICATORS CHECKED AND REPAIRED'.
**16.07.1991** Service defect: 'B - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.
**16.07.1991** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR RESET'.
**16.07.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - LOCO LIFTED OFF BOGIES & REPAIRS TO BRUSHBOXES ON NO.1 & N0.6 TRACTION MOTORS CARRIED OUT,7 GLOBES REPLACED'.
**16.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT - EDDY CURRENT CLUTCH REPAIRED,MIDDLE T/M BELLOW REPLACED'.
**16.07.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 TRACTION MOTOR BRUSHES REPLACED'.
**20.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - DROPPING RESISTANCE FOR SPEEDO REPLACED'.
**25.07.1991** Service defect: 'UN - FUEL SYSTEM LINES - NO.5 HIGH PRESSURE PIPE 'A' BANK REPAIRED'.
**25.07.1991** Service defect: 'UN - NO FAULT FOUND - HEATERS TESTED OK.'.
**01.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATERS MODIFICATION COMPLETED'.
**01.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - ALL SEALS CHECKED & REPLACED WHERE NEEDED A/C DRAUGHTS'.
**03.08.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH LOCO SHUTTING DOWN'.
**06.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT TRACTION MOTOR BLOWER REPLACED'.
**06.08.1991** Service defect: 'UN - NO FAULT FOUND - BURNING SMELL IN CAB FOUND TO BE PAINT ON NEWLY INSTALLED HEATER'.
**08.08.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK.'.
**14.08.1991** Service defect: 'UN - NO FAULT FOUND - TRACTION MOTORS TESTED OK.'.
**19.08.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - FLASH OVER ON NO.3 TRACTION MOTOR CLEANED UP & VEE RING REPAINTED,TEST RUN LOCO OK.'.
**22.08.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTHS TRACED TO WIRING OF LOAD REGULATOR POTENTIOMETER'.
**24.08.1991** Service defect: 'UN - WHEELSLIP - BROKEN WHEELSLIP WIRE REPAIRED'.
**28.08.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH LOCO AMPS'.
**06.09.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - LOCO TESTED OK. FOR CONTROL EARTHS'.
**09.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**09.09.1991** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND VALVES REPLACED'.
**09.09.1991** Service defect: 'TW - NO FAULT FOUND - WHEELSLIP TESTED OK.'.
**21.09.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED'.
**21.09.1991** Service defect: 'UN - WHEELSLIP - WHEELSLIP RESISTANCE ACROSS NO.3 & NO.4 TRACTION MOTORS REPLACED'.
**14.10.1991** Service defect: 'UN - COOLING SYSTEM - WATER JACKETS NO.3,4 & 5 'A' BANK REPLACED'.
**02.11.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP'.
**13.11.1991** Service defect: 'TW - ENGINE WATER LEAK - WATER RAIL CONNECTIONS TIGHTENED'.
**13.11.1991** Service defect: 'TW - FUEL SYSTEM - LEAKING FUEL GAUGE REPAIRED'.
**13.11.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETED ***'.
**24.08.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - ALL STARTER CONTACTORS RECONDITIONED.'.
**24.08.1992** Service defect: 'UN - RADIO REPAIR - NEW UHF RADIO FITTED.'.
**24.08.1992** Service defect: 'UN - STARTER MOTOR - TWO REBUILT BOSCH STARTER MOTORS FITTED.'.
**07.09.1992** Service defect: 'B - BOGIE - MANGANESE PLATE REPLACED.'.
**07.09.1992** Service defect: 'B - COOLING SYSTEM RADIATOR - RADIATOR ELEMENT REPLACED.'.
**07.09.1992** Service defect: 'B - ENGINE CYLINDER HEADS -

HEAD NUMBER 5 B BANK REPLACED.'.
**07.09.1992** Service defect: 'B - ENGINE LINER - CYLINDER LINER NUMBER 5 B BANK REPLACED.'.
**07.09.1992** Service defect: 'B - ENGINE PISTON - PISTON AND CONNECTING ROD NUMBER 5 B BANK REPLACED.'.
**07.09.1992** Service defect: 'B - FUEL SYSTEM INJECTORS - FUEL INJECTOR NUMBER 5 B BANK REPLACED.'.
**07.09.1992** Service defect: 'B - LUBRICATING SYSTEM - ENGINE OIL DRAINED AND RENEWED.'.
**07.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBRICATORS REPAIRED AND AIR FILTER REPLACED. FIREMANS SIDE WINDSCREEN WIPER REPAIRED.'.
**07.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**07.09.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.09.1992** Service defect: 'B - NO FAULT FOUND - ELECTRICAL SERVICE SHEET SHOWED NO EXTRA ATTENTION REQUIRED OR PARTS RENEWED.'.
**07.09.1992** Service defect: 'B - OTHER BODY REPAIRS - MAIN RESERVOIR DOOR REPAIRED.'.
**09.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PIPE FITTING CAME APART ON ONE BRAKE CYLINDER ON LEADING BOGIE. FITTING RECONNECTED AND TIGHTENED.'.
**22.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**26.09.1992** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - REAR SOCKET JUMPER PIN REPLACED.'.
**26.09.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**30.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB DOOR LOCK REPAIRED.'.
**09.10.1992** Service defect: 'UN - NO FAULT FOUND - EARTH FAULT REPORTED. NO FAULT FOUND. PROBABLY TEMPORARY FAULT CAUSED BY RECENT VERY HEAVY RAIN.'.
**29.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.11.1992** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - CAB GAUGE LIGHTS WERE TO BE MODIFIED. NOT ENOUGH TIME TO DO.GAUGE GLASSES CLEANED TO IMPROVE VISIBILITY.'.
**24.11.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED BOOST FAULT. NO FAULT FOUND.'.
**03.12.1992** Service defect: 'SW - BOGIE - F SERVICE BOGIES NUMBERS 11 AND 17 FITTED UNDER THIS LOCO. LEADING BOGIE HAS 3 ALPHA OVERHAULED TRACION MOTORS'.
**03.12.1992** Service defect: 'SW - BOGIE MAINTENANCE - WHEELS - WHEEL FLANGE THICKNESS REDUCED ON NUMBER 2 WHEEL SET LEADINGBOGIE TO REDUCE WEAR ON NUMBERS 1 AND 3 WHEEL SET FLANGES.'.
**03.12.1992** Service defect: 'SW - NO FAULT FOUND - THIS MODIFICATION PROPOSED BY JOHN WALSH. REAR BOGIE LEFT ASSTANDARD FOR COMPARISON AT LATER DATE.'.
**12.12.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHT FAULT REPAIRED.'.
**12.12.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**12.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.03.1996** Service defect: 'UN - ENGINE - OVERHAULED ENGINE INSTALLED FOLLOWING FAILURE OF ORIGINAL F SERVICE ENGINE AT 380KM AFTER SERVICE.'.

**ZB 4**

Details: locomotive 'ZB 4 U' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $144050
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** Q 39M
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** STORED 14.03.95;EX Q.R. 2353
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 13.03.1995 | | |
| Last Lift: | 01.10.1983 | | |
| A Service Mileage: | 472562 KM | A Service Date: | 14.10.1994 |
| B Service Mileage: | 468688 KM | B Service Date: | 22.09.1994 |
| C Service Mileage: | 452446 KM | C Service Date: | 28.05.1994 |
| F Service Mileage: | 0 KM | A Service Date: | 01.10.1983 |
| US Service Mileage: | 489816 KM | A Service Date: | 13.03.1995 |

**04.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START.(BATTERIES TOPPED UP WITH WATER)'.
**04.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRS TO RACK LEAVER.'.
**10.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FINGER CONTACT MC1 RENEWED,HSS3 REPAIRED,FD5 TESTED 'OK'.'.
**10.07.1989** Service defect: 'UN - GENERAL - *TRIAL RUN TO E.T.J.'.
**10.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**10.07.1989** Service defect: 'UN - NO FAULT FOUND - VIGILANCE TESTED 'OK'.'.
**11.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED FOR DROPPING AMPS.(UNABLE TO FAULT IN WORKSHOPS TEST RUN ON TRACK SUGGESTED.)'.
**12.07.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO.6 'B' BANK EXHAUST VALVE PEDESTAL & PUSHROD RENEWED.'.
**17.07.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - MOUNTING RUBBERS ON BOTH SIDES RADIATOR RENEWED.'.
**17.07.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - W.T.S.WIRING CHECKED 'OK'.'.

**17.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**18.07.1989** Service defect: 'UN - RADIATOR/PRESSURISING FAN - WATER TEMP.SWITCHES CHECKED & TESTED 'OK'.'.
**21.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**24.07.1989** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR DOOR SWITCH REPAIRED.'.
**24.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**24.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**23.08.1989** Service defect: 'UN - FUEL SYSTEM PUMP - REPL. FUEL PUMP & LEAK REPAIRED.'.
**23.08.1989** Service defect: 'UN - TRACTION MOTOR - CABLE REPAIRED.'.
**04.09.1989** Service defect: 'TW - BATTERY MAINTENANCE - JUMP START.(FLAT BATTERIES)'.
**04.09.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**04.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**06.09.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**13.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES)'.
**13.09.1989** Service defect: 'UN - GENERAL - LOAD TESTED ON TANK 'OK'.'.
**21.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHANGED.'.
**21.09.1989** Service defect: 'UN - STARTER MOTOR - MOTOR REPL. ON 'B'BANK.'.
**27.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - STEP LIGHT REPAIRED.'.
**29.09.1989** Service defect: 'UN - NO FAULT FOUND - TESTED AMPS & F/DIVERSION 'OK'.'.
**04.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LAMPS REPL.'.
**04.10.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**06.10.1989** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - REPAIRED OIL LEAK.'.
**06.10.1989** Service defect: 'UN - TRACTION MOTOR - BELLOW REPL.'.
**11.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - REPL.STEP LIGHT FITTING.'.
**11.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**16.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**26.10.1989** Service defect: 'B - BATTERY MAINTENANCE - WASHED DOWN & WATERED.'.
**26.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED & F/LUBES REPAIRED.'.
**26.10.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.& LOW READING ON NRT CLEARED.'.
**26.10.1989** Service defect: 'B - EXHAUST - BELLOW REPL.'.
**26.10.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED,REPL.SAND HOSE & PIPE SET TO RAIL.'.
**26.10.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL.'.
**26.10.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**30.10.1989** Service defect: 'UN - FUEL SYSTEM LINES - REPAIRED FUEL LEAK.'.
**07.11.1989** Service defect: 'TS - NO FAULT FOUND - NO.6 T/MOTOR FLASH OVER CHECKED 'OK'.'.
**24.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**29.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - REPAIRED OIL LEAK.'.
**29.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**29.11.1989** Service defect: 'UN - NO FAULT FOUND - D/BRAKE TESTED 'OK'.'.
**29.11.1989** Service defect: 'UN - RADIO REPAIR - REPAIRED RADIO.'.
**04.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**21.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**21.12.1989** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRED STEP.(SHARP EDGES)'.
**30.05.1991** Service defect: 'UN - HEADS'.
**22.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - TOP ENGINE OVERHAUL COMPLETED'.
**26.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL FLANGE LUBRICATORS MADE WORKABLE'.
**30.08.1991** Service defect: 'TS - RADIO REPAIR - RADIO AERIAL CIRCIUT TESTED OK,RADIO TESTED OK.'.
**03.09.1991** Service defect: 'UN - WHEELSLIP - WHEELSLIP RESISTANCE ACROSS NO.2 & NO.5 T/MOTORS REPLACED'.
**05.09.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - STARTER BUTTON REPLACED'.
**05.09.1991** Service defect: 'TS - STARTER MOTOR - D/S STARTER MOTOR REPLACED'.
**06.09.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SPEEDO LIGHT FITTED'.
**06.09.1991** Service defect: 'TS - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**07.09.1991** Service defect: 'TS - CONTACTOR INTERLOCKS - D.B.4 AUXILLARY CONTACTS SHORTED OUT CAUSING LOCO AMP PROBLEMS,CONTACTS REPAIRED & LOCO TESTED OK.'.
**09.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AMP PROBLEM CAUSED BY FAULTY JUMPER'.
**17.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK.FOR OIL LEAKS'.
**21.09.1991** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - FRONT HEADLIGHT REPAIRED'.
**21.09.1991** Service defect: 'TS - NO FAULT FOUND - LOCO CHECKED OK.FOR STARTING'.
**25.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS REPAIRED'.
**25.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - ARM REST REPLACED'.
**02.10.1991** Service defect: 'TS - FUEL SYSTEM LINES - FUEL LEAK ON H.P. PIPE NO.4 'A' BANK REPAIRED'.
**02.10.1991** Service defect: 'TS - STARTER MOTOR - STARTER MOTOR D/S REPLACED'.
**03.10.1991** Service defect: 'TS - GENERAL - ** A SERVICE COMPLETE **'.
**03.10.1991** Service defect: 'TS - OTHER BODY REPAIRS - WINDOW RUNNER REPAIRED'.
**05.10.1991** Service defect: 'UN - GENERAL - LOCO CHECKED

OK.'.
**11.10.1991** Service defect: 'UN - ENGINE WATER LEAK - HEADER TANK CAP TIGHTENED'.
**11.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**11.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - OIL WASHED OFF FOOTPLATE'.
**24.10.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO.2 & NO.5 TRACTION MOTORS REPLACED'.
**25.10.1991** Service defect: 'UN - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**02.11.1991** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPAIRED'.
**08.11.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - S.R.2 RELAY REPAIRED A/C LOCO NOT STARTING'.
**08.11.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - FRONT HEADLIGHT GLOBE REPLACED'.
**13.11.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP'.
**20.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO TRANSMITTER REPLACED'.
**07.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - INDICATOR LIGHT DIODE REPLACED AND ASSOCIATED WIRING REPAIRED.'.
**07.05.1992** Service defect: 'UN - VIGILANCE - POWER KNOCKOUT OVERRIDE SWITCH REPLACED.'.
**27.05.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - LOOSE RADIATOR COVER REPOSITIONED AND FIXED.'.
**27.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**05.06.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - WOLD NOT AMP. RECTIFIER FAILURE RELAY RESET.'.
**09.06.1992** Service defect: 'TW - OTHER BODY REPAIRS - REPLACED BROKEN WINDOWS CAUSED BY VANDALS.'.
**18.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**18.06.1992** Service defect: 'UN - NO FAULT FOUND - DERAILED AT WESTERN JUNCTION, CHECK SHOWED NO DAMAGE DONE.'.
**20.06.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK NEAR FLYWHEEL REPAIRED. OIL FROM LEAK WAS THROWN FROM FLYWHEEL ON TO FOOTPLATE. THE FOOTPLATE WAS CLEANED.'.
**01.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - BROKEN GLASS IN BRAKE GAUGE REPAIRED.'.
**01.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPLACED IN FIREMANS SIDE DOOR.'.
**13.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPLACED IN CAB.'.
**22.07.1992** Service defect: 'UN - BOGIE - MISSING SUSPENSION BLOCK PIN REPLACED.'.
**11.08.1992** Service defect: 'TW - BROKEN PIPE - BROKEN PIPE IN DYNAMIC BRAKE CUBICLE REPAIRED.'.
**11.08.1992** Service defect: 'TW - WHEELSLIP - WHEEL SLIP RESISTANCE FOR NUMBER 2 & 5 TRACTION MOTORS REPLACED. TRACK STOPPAGE ON 10/8/92 WAS DUE TO THIS FAULT.'.
**22.08.1992** Service defect: 'UN - FUEL SYSTEM LINES - LEAK IN FUEL RAIL REPAIRED.'.
**22.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.09.1992** Service defect: 'B - COOLING SYSTEM - WATER RAIL CLAMP TIGHTENED.'.
**07.09.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**07.09.1992** Service defect: 'B - FUEL SYSTEM LINES - NUMBER 6 B BANK FUEL RAIL BANJO WASHERS REPLACED.'.
**07.09.1992** Service defect: 'B - FUEL SYSTEM PUMP - NUMBER 1 B BANK FUEL PUMP DELIVERY WASHER TIGHTENED.'.
**07.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE NOZZLE REPLACED.'.
**07.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**07.09.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.09.1992** Service defect: 'B - NO FAULT FOUND - ELECTRICAL SERVICE SHEET CONTAINED NO EXTRA ATTENTION OR PARTS RENEWED.'.
**17.09.1992** Service defect: 'UN - TRACTION MOTOR EARTH - TM'S ISOLATED, EARTH FAULT ON 3&4. EARTH FAULT FOUND AND REPAIRED.'.
**26.09.1992** Service defect: 'UN - NO FAULT FOUND - NUMBERS 1 & 6 TRACTION MOTORS HAD BEEN ISOLATED. WHEN CHECKED NO FAULTS COULD BE FOUND.'.
**30.09.1992** Service defect: 'TS - DYNAMIC BRAKE - THERE IS A FAULT WITH THE DYNAMIC BRAKE ON THIS LOCO. THE ELECTRICIANS CANT FIX IT SO CREW WARNING POSTED AND LET GO.'.
**30.09.1992** Service defect: 'TS - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.
**30.09.1992** Service defect: 'TS - NO FAULT FOUND - TRACK STOPPAGE BLAMED ON THIS LOCO TRAIN 2257. IT NOW APPEARS THE TRAIN WAS OVERLOADED AND NO FAULT WITH LOCO.'.
**07.10.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED LOW BOOST PRESSURE. TEST RUN AND NO FAULT FOUND.'.
**12.10.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED DROPPING AMPS OVER HALF THROTTLE. NO FAULT FOUND. TEST RUN TOMORROW.'.
**14.10.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**24.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.10.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR ADJUSTED.'.
**30.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**30.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.10.1992** Service defect: 'UN - NO FAULT FOUND - WOULD NOT COUPLE TO ZB11. WOULD COUPLE TO ZC1 WHICH WAS IN SHOP AT TIME. NO FAULT COULD BE FOUND.'.
**14.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - BRAKE GAUGE GLASS REPAIRED.'.
**25.11.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**27.11.1992** Service defect: 'UN - BOGIE MAINTENANCE -

SPRINGS - FRONT TRIMOUNTS REPLACED.'.

**27.11.1992** Service defect: 'UN - NO FAULT FOUND - VIGILANCE FAULT REPORTED. CHECKED BY ELECTRICIAN AND NO FAULT FOUND.'.

**20.01.1993** Service defect: 'B - COOLING SYSTEM - WATER PIPE FITTING TIGHTENED ABOVE TURBOCHARGER.'.

**20.01.1993** Service defect: 'B - ENGINE CYLINDER HEADS - 1 EXHAUST TAPPET RESET.'.

**20.01.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**20.01.1993** Service defect: 'B - FUEL SYSTEM PUMP - 1 FUEL PUMP WASHER TIGHTENED. 1 HIGH PRESSURE PIPE TIGHTENED'.

**20.01.1993** Service defect: 'B - LUBRICATING SYSTEM - LUBE OIL PUMP REPAIRED.'.

**20.01.1993** Service defect: 'B - MECHANICAL EQUIPMENT - MAIN RESERVOIR SAFETY VALVE REPLACED. WIPER MOTOR AND WIPER BLADE REPLACED. REAR TRACTION MOTOR BLOWER BELT TIGHTENED.'.

**20.01.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED. 2 BRAKE CYLINDER AIR PIPES TIGHTENED.'.

**20.01.1993** Service defect: 'B - NO FAULT FOUND - NO ELECTRICAL SERVICE SHEET RECEIVED AT THIS TIME.'.

**29.01.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**06.02.1993** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.

**18.02.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED.'.

**20.02.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PAD BOLT FITTED TO VIGILANCE ISOLATING FLAP.'.

**13.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**13.03.1993** Service defect: 'UN - NO FAULT FOUND - OIL ON FOOTPLATE. CHECKED AND NO FAULT FOUND. FOOTPLATE CLEANED.'.

**20.03.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAN DOOR SWITCH REPLACED.'.

**02.04.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHT FAULT REPAIRED.'.

**02.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE SHOE RUBBING PADS REPLACED.'.

**14.04.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**14.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**21.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AS HAVING ROUGH RIDE. CHECKED AND NO FAULT FOUND. PHONE TRANSCEIVER CHECKED AND NO FAULT FOUND.'.

**21.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.

**24.04.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - POSSIBLE FLASHOVER IN A TRACTION MOTOR THOUGHT TO BE CAUSE OF REPORTED SMOKE. CHECKED AND ALLOWED BACK INTO SERVICE.'.

**07.05.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - SUSPECTED CRACKED AXLE NUMBER 1 REPLACED.'.

**07.05.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 2 HEADLIGHT DROPPING RESISTORS REPLACED.'.

**07.05.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**07.05.1993** Service defect: 'B - FUEL SYSTEM INJECTORS - FUEL INJECTOR REPLACED ON B BANK.'.

**07.05.1993** Service defect: 'B - FUEL SYSTEM LINES - FUEL SEPARATOR FLANGE TIGHTENED.'.

**07.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT TRACTION MOTOR BLOWER ADJUSTING BOLT REPAIRED.'.

**07.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**07.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**07.05.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 1 SET OF TRACTION MOTOR BRUSHES REPLACED.'.

**20.05.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - SNAP SWITCH REPLACED ON FIELD DIVERSION TIMER.'.

**03.06.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - VIGILANCE WIRING REPAIRED.'.

**25.06.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED HEATER FAULT. FITTER G. BLYTH CHECKED AND FOUND NO FAULT WITH HEATERS ONLY THAT THEY ARE INNEFECTIVE.'.

**25.06.1993** Service defect: 'TW - OTHER BODY REPAIRS - WINDOW LEAKS REPAIRED.'.

**03.07.1993** Service defect: 'UN - GENERAL - USED FIRE EXTINGUISHER REPLACED.'.

**06.07.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**06.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**08.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATERS REPAIRED.'.

**08.07.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED.'.

**08.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**13.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WIPER REPAIRED.'.

**13.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS SIDE CAB WIDOW LEAK REPAIRED.'.

**15.07.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.

**15.07.1993** Service defect: 'UN - GENERAL - FIRE EXTINGUISHER SECURED.'.

**28.07.1993** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR REPLACED. TESTED ON LOAD TANK.'.

**07.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**14.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIRE ALARM RECONNECTED. REPORTED FAULT WAS IN ZB1 FIRE ALARMWHEN COUPLED TOGETHER.'.

**14.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**19.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**19.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**03.09.1993** Service defect: 'C - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHTS REPAIRED.'.
**03.09.1993** Service defect: 'C - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.
**03.09.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPAIRED.'.
**03.09.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**03.09.1993** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FRONT SPLINE SHAFT REPLACED.'.
**03.09.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**03.09.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 11 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**03.09.1993** Service defect: 'C - STARTER MOTOR - 2 DELCO REMY STARTER MOTORS FITTED OVERHAULED BY ELECTRO REWINDS. **********'.
**10.09.1993** Service defect: 'UN - FUEL SYSTEM - FIREMANS SIDE FUEL FILLER REPAIRED.'.
**10.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**17.09.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**04.10.1993** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE FRONT STEP REPAIRED. BROKEN WINDOW REPAIRED.'.
**19.10.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE OPERATIONAL.'.
**19.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 11 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**09.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**17.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.
**24.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIREMANS HEATER REPAIRED.'.
**24.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**04.03.1994** Service defect: 'UN - GENERAL - FOOTPLATE CLEANED.'.
**04.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED. 6 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**08.03.1994** Service defect: 'TW - LUBRICATING SYSTEM - COMPRESSOR OIL TOPPED UP.'.
**08.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**17.03.1994** Service defect: 'UN - GENERAL - FOOT PLATE CLEANED.'.
**17.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**25.03.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL RAIL TAKEN DOWN AND REPAIRED.'.
**25.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**27.05.1994** Service defect: 'UN - BOGIE - BOGIES FROM ZB9 FITTED UNDER LOCO.**********'.
**27.05.1994** Service defect: 'UN - ENGINE - ENGINE CHANGE. FITTED WITH ENGINE FROM BUSHED LOCO ZB11.**********'.
**27.05.1994** Service defect: 'UN - GENERAL - WHILE IN SHOP WORK PERFORMED ON OIL RAIL, MAIN ALTERNATOR, DYNAMIC BRAKE, AIR PIPE, AND ENGINE PRESSURE FAN BELT CHANGE'.
**28.05.1994** Service defect: 'C - BOGIE - #5 AXLE BOX BEARING REPLACED.'.
**28.05.1994** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - #2 AND #3 AXLES REPLACED DUE TO FLAWS FOUND BY ULTRASOUND INSPECTION.**********'.
**28.05.1994** Service defect: 'C - CONTACTOR MISCELLANEOUS - ALL MC CONTACTS CLEANED. COMPRESSOR GOVERNOR OVERHAULED AND ADJUSTED.'.
**28.05.1994** Service defect: 'C - TRACTION MOTOR BRUSHES - 8 TRACTION MOTOR BRUSHES REPLACED. STEP LIGHTS REPAIRED.'.
**07.07.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED AS SHUTTING DOWN. CHECKED ON LOAD TANK, FAULT WAS THOUGHT TO BE GENUINE BUT DISSAPEARED. POS FUEL BLOCKAGE?'.
**20.07.1994** Service defect: 'TS - TRACTION MOTOR - #1 TRACTION MOTOR REPLACED DUE TO DAMAGE FROM BALLAST ENTERING FOLLOWING DERAILMENT AT COLEBROOK.'.
**08.08.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DIODE REPLACED ON VIGILANCE PANEL.'.
**17.08.1994** Service defect: 'UN - OTHER BODY REPAIRS - DYNAMIC BRAKE DOORS REPAIRED.'.
**01.09.1994** Service defect: 'A - BOGIE - REPLACED DRIVERS SIDE REAR TRIMOUNT.'.

### ZB 5

Details: locomotive 'ZB 5 G' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $124170
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L34
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2354
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 11.09.1996 | | |
| Last Lift: | 21.09.1984 | | |
| A Service Mileage: | 700013 KM | A Service Date: | 25.10.1995 |
| B Service Mileage: | 768168 KM | B Service Date: | 11.09.1996 |
| C Service Mileage: | 733205 KM | C Service Date: | 01.04.1996 |
| F Service Mileage: | 0 KM | A Service Date: | 21.09.1984 |
| US Service Mileage: | 767000 KM | A Service Date: | 20.08.1996 |

**18.07.1989** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - WIRING TO FIRE WARNING LIGHT REPAIRED.'.
**18.07.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (18)LAMPS RENEWED.'.
**18.07.1989** Service defect: 'B - ENGINE - NO.1 'A' BANK RELIEF VALVE RENEWED.'.
**18.07.1989** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK ON RAIL & BLOWER REPAIRED.'.
**18.07.1989** Service defect: 'B - EXHAUST - BELLOW RENEWED.'.
**18.07.1989** Service defect: 'B - FUEL SYSTEM PUMP - NO.6 'B' BANK WASHER TIGHTENED.'.
**18.07.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE RENEWED.'.
**18.07.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS RENEWED.'.
**18.07.1989** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - FAULT HORN REPAIRED.'.
**18.07.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES RENEWED.'.
**27.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - W/WIPER REPAIRED.'.
**27.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**22.08.1989** Service defect: 'TS - BOGIE - CRATER BOX RENEWED.(DAMAGED)'.
**22.08.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**22.08.1989** Service defect: 'TS - GENERAL - 'A'SERVICE.'.
**22.08.1989** Service defect: 'TS - NO FAULT FOUND - CHECKED ELECT.'OK'.(AMPS,VIG.,W/SLIP.)'.
**12.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**25.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**25.09.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**27.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES)'.
**29.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - REPL.SPLINE SHAFT.'.
**02.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**06.10.1989** Service defect: 'UN - ENGINE WATER LEAK - REPAIRED WATER LEAK.'.
**06.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE ROOM DOOR SECURED.'.
**17.10.1989** Service defect: 'UN - ENGINE WATER LEAK - REPAIRED WATER LEAK.'.
**17.10.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**25.10.1989** Service defect: 'C - BATTERY MAINTENANCE - CLEANED & VOLTAGE TO FRAME CLEARED.'.
**25.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - NO.1 FLANGE 1MM,NO.4 FLANGE 4MM,NO.6 FLANGE 7MM OTHERS OK.'.
**25.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBES.'.
**25.10.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.REPAIRED LIGHT IN E/ROOM & FIRE DETECTOR FAULT'.
**25.10.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - LOW READING CLEARED.'.
**25.10.1989** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SAND HOSE REPL.'.
**25.10.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**25.10.1989** Service defect: 'C - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**25.10.1989** Service defect: 'UN - GENERAL - *WENT OUT ON 18-10-89 AT 1700 HRS.'.
**25.10.1989** Service defect: 'UN - NO FAULT FOUND - W/SLIP TESTED 'OK'.'.
**01.11.1989** Service defect: 'UN - NO FAULT FOUND - LOCO WOULD NOT START.(CHECKED 'OK')'.
**09.11.1989** Service defect: 'UN - NO FAULT FOUND - SR.2 NOT COMING IN TESTED 'OK'.'.
**09.11.1989** Service defect: 'UN - STARTER MOTOR - F/SIDE MOTOR REPL.'.
**13.11.1989** Service defect: 'UN - STARTER MOTOR - MOTOR REPLACED.'.
**15.11.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**15.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RECTIFIER BUTTON RESET.'.
**17.11.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - H/TEMPERATURE SWITCH REPL.'.
**23.11.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED.(VOLTS ADJ.)'.
**23.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**27.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RECTIFIER BUTTON RESET.'.
**27.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - NEW HOSE FITTED.'.
**04.12.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHANGED & VOLTS ADJ.'.
**05.12.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTS ADJ.'.
**05.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE VALVE REPL.'.
**11.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ. & RING REPAIRED.'.
**11.12.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**12.12.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**12.03.1990** Service defect: 'UN - GENERAL - 8LOCO BOOKED OUT ON 20-12-89.'.
**13.03.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - SECURED WIRE ON M.C.5 CONTACT.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - REPAIRED O.P.R. RELAY.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - REAR H/LIGHT LAMP REPL.'.
**13.03.1990** Service defect: 'B - ENGINE - NO.3 'A'BANK ROLLER REPL.'.
**13.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 21-02-90.SPEEDO READ 252990K/M.'.

**13.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**13.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - REPL.FAULT ALARM.'.
**13.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (11)BRUSHES REPL.'.
**03.04.1990** Service defect: 'UN - GENERAL - RELIEF VALVE RENEWED.'.
**01.05.1990** Service defect: 'UN - BOGIE - BOGIES CHANGED.'.
**01.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 27-04-90.'.
**07.05.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - NUMEROUS LAMPS REPL.'.
**07.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**07.05.1990** Service defect: 'TW - TRACTION MOTOR - (3)COVERS REPL.'.
**15.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED (FLAT BATTERIES)'.
**15.05.1990** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK AT WATER RAIL REPAIRED.'.
**15.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 14-05-1990 AT 1300 HRS.'.
**17.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - RENEWED BRAKE HEAD.'.
**17.05.1990** Service defect: 'UN - OTHER BODY REPAIRS - CUBICLE DOOR REPAIRED.'.
**17.05.1990** Service defect: 'UN - VIGILANCE - CONTROL COVER RENEWED & VIGILANCE TESTED 'OK'.'.
**22.05.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.& F/MARKER LIGHT SOCKET REPL.'.
**22.05.1990** Service defect: 'B - ENGINE - EPL.WATER JACKET ON NO.3 'A'BANK.'.
**22.05.1990** Service defect: 'B - ENGINE WATER LEAK - REPAIRED LEAKS ON 'B' BANK WATER RAIL.'.
**22.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**22.05.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (5)BRUSHES REPL.'.
**22.05.1990** Service defect: 'B - VIGILANCE - GLOBE REPL.'.
**22.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOCO JUMP STARTED, BATTERIES 'B' SERVICED.'.
**21.08.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - (2)F/LUBE PIPES REPL.'.
**21.08.1990** Service defect: 'B - ELECTRICAL MISC. TRANSITION - NO.2&3 MOTORS HAVE A SCORE ON COMM.NOTHING VISIBLE(TO CHECK)'.
**21.08.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**21.08.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 274270K/M.'.
**21.08.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - REPL. (1)SAND VALVE & (2)HOSES.'.
**21.08.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (3)BLOCKS REPL.& ADJ.'.
**21.08.1990** Service defect: 'B - RADIO REPAIR - REPAIRED H/SET.'.
**28.11.1990** Service defect: 'B - AUXILLARY MACHINES - LUBE PUMP COMMUTATOR STONED'.
**28.11.1990** Service defect: 'B - COOLING SYSTEM - E.P.FAN BELT TIGHTENED'.
**28.11.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 3 LAMPS REPLACED'.
**28.11.1990** Service defect: 'B - ENGINE - CAM ROLLER REPLACED'.
**28.11.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 287453 KM.'.
**28.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT - T/M BLOWER MOUNTING BOLTS TIGHTENED,BELT TIGHENED'.
**28.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDPIPE WELDED'.
**28.11.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED'.
**28.11.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 T/M BRUSHES REPLACED'.
**23.04.1991** Service defect: 'C - AUXILLARY MACHINES - FUEL PUMP COMMUTATOR CLEANED'.
**23.04.1991** Service defect: 'C - CONTACTOR MISCELLANEOUS - BDR1 RELAY REPLACED'.
**23.04.1991** Service defect: 'C - COOLING SYSTEM - WATER RAIL CLAMPS TIGHTENED'.
**23.04.1991** Service defect: 'C - ELECTRICAL MISCELLANEOUS - 2 LAMPS REPLACED'.
**23.04.1991** Service defect: 'C - ELECTRICAL MISCELLANEOUS - RADIO HANDSET REPLACED'.
**23.04.1991** Service defect: 'C - GENERAL - SPEEDO ON LOCO READ 309626 KM.'.
**23.04.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED'.
**23.04.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**23.04.1991** Service defect: 'C - TRACTION MOTOR BRUSHES - 20 BRUSHES REPLACED'.
**24.05.1991** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED O.K. FOR FLAT SPOTS'.
**24.05.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - 3 GLOBES REPLACED'.
**24.05.1991** Service defect: 'TW - GENERAL - (A) SERVICE'.
**12.06.1991** Service defect: 'UN - GENERAL - NO BOOKINGS,LOCO CHECKED O.K.'.
**14.06.1991** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - WIRING TO REAR HEADLIGHT PLUG REPAIRED'.
**14.06.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**21.06.1991** Service defect: 'TS - NO FAULT FOUND - LOCO TESTED ON TRACK O.K.'.
**27.06.1991** Service defect: 'UN - BOGIE - LOCO FITTED WITH NEW BOGIES'.
**05.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - D/S BRAKE HEAD REPLACED'.
**05.07.1991** Service defect: 'UN - STARTER MOTOR - 2 STARTER MOTORS REPLACED'.
**09.07.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK ON OIL FEED TO 'B' 1 HEAD RECTIFIED'.
**09.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER CLAMP REPLACED'.
**09.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**11.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT

- D/S WIPER REPAIRED'.

**11.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT BRAKE VALVE CHANGED'.

**13.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PEDESTAL BLOCKED OFF'.

**16.07.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.

**17.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.

**17.07.1991** Service defect: 'TW - NO FAULT FOUND - NO FAULT FOUND WITH MAIN CIRCIUT BREAKER'.

**20.07.1991** Service defect: 'UN - NO FAULT FOUND - LOCO MEGGERED OK,BOOST TESTED OK'.

**24.07.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - BLOWN HEADLIGHT GLOBE REPLACED'.

**24.07.1991** Service defect: 'UN - NO FAULT FOUND - HEATERS,HOTPLATE TESTED OK.'.

**25.07.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - SNAP SWITCH RESECURED ONTO F.D.T. A/C FIELD DIVERSION NOT WORKING'.

**25.07.1991** Service defect: 'UN - TRACTION MOTOR BRUSHES - 2 SETS OF BRUSHES REPLACED IN NO.2 TRACTION MOTOR'.

**25.07.1991** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NO.2 & NO.5 TRACTION MOTORS HAVE HAD MINOR FLASH OVERS'.

**31.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - MISSING TRACTION MOTOR COVERS REPLACED'.

**31.07.1991** Service defect: 'TS - NO FAULT FOUND - AMPS TESTED OK. ON TEST RUN TO E.T.J.'.

**06.08.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - F.L.R. RELAY OVERHAULED A/C FIELD DIVERSION NOT REVERTING'.

**06.08.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH LOCO EARTH FAULTING'.

**15.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 12 GLOBES REPLACED'.

**15.08.1991** Service defect: 'B - ENGINE WATER LEAK - WATER LEAKS ON 'B' BANK WATER RAIL REPAIRED'.

**15.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 1 TRACTION MOTOR STRAP RENEWED'.

**15.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SANDER MADE WORKABLE'.

**15.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED & ADJUSTED'.

**15.08.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED'.

**23.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.

**02.09.1991** Service defect: 'UN - AUXILLARY MACHINES - LUBE PUMP REPLACED'.

**02.09.1991** Service defect: 'UN - ENGINE CYLINDER HEADS - HEADS REPLACED'.

**02.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - LOCO TESTED OK. ON LOAD TANK'.

**07.09.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED & AMPS TESTED OK'.

**14.09.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - WINDSCREEN WIPER BLADE REPLACED'.

**14.09.1991** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.

**14.09.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**17.09.1991** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.

**20.09.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - FIELD DIVERSION TESTED OK.'.

**25.09.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - 2 HEADLIGHT GLOBES REPLACED'.

**25.09.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH LOCO AMPS OR U.H.F. RADIO'.

**27.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETED ****'.

**28.09.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.

**05.10.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.

**05.10.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHT GLOBES REPLACED'.

**09.10.1991** Service defect: 'TS - NO FAULT FOUND - LOCO AMPS & BOOST TESTED OK.'.

**14.10.1991** Service defect: 'UN - WHEELSLIP - W.S.R.2 RELAY REPLACED'.

**18.10.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.

**28.10.1991** Service defect: 'UN - WHEELSLIP - WHEELSLIP BUZZER REPLACED'.

**02.11.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH VIGILANCE'.

**19.11.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADER REPAIRED'.

**19.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**19.11.1991** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE SEAT REPAIRED'.

**19.11.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.

**19.12.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - FAULT HORN'.

**07.05.1992** Service defect: 'TW - TRACTION MOTOR EARTH - TRACTION MOTOR EARTH FAULT NOT FOUND, EARTH LINK REPLACED JUST TO BE SURE. TEST RUN PROVED OK.'.

**16.05.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - REPAIRED SPLIT PIPE IN RADIATOR COMPARTMENT.'.

**19.05.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - M2 & M3 TRACTION MOTOR CONTACTORS REPLACED.'.

**21.05.1992** Service defect: 'UN - NO FAULT FOUND - EARTH FAULT REPORTED. TRACTION MOTOR ISOLATED. NO FAULT FOUND.'.

**25.05.1992** Service defect: 'UN - RADIO REPAIR - RADIO MODIFICATION COMPLETED.'.

**29.05.1992** Service defect: 'UN - NO FAULT FOUND - FAULT #3 & #4 TRACTION MOTORS ISOLATED. NO FAULTS FOUND. TEST RUN MORNING TUESDAY 2/6/92.'.

**04.06.1992** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - EARTH FAULTS FIX.'.

**17.06.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHT GLOBES REPLACED.'.

**17.06.1992** Service defect: 'UN - MECHANICAL

MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**17.06.1992** Service defect: 'UN - NO FAULT FOUND - NO PHONE FAULT FOUND.'.
**24.06.1992** Service defect: 'UN - RADIO REPAIR - BROKEN PHONE AERIAL REPLACED.'.
**07.07.1992** Service defect: 'TW - NO FAULT FOUND - WHEEL SLIP FAULT REPORTED. NO FAULT FOUND.'.
**14.07.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED FAULT IN FIELD DIVERSION. TEST RUN TO ROCHERLEA AND COULD NOT FAULT.'.
**17.07.1992** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE WORKABLE.'.
**23.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**31.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - LEAK IN CAB WINDOW REPAIRED.'.
**05.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.
**26.08.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES SUBJECTED TO ULTRASOUND INSPECTION.'.
**26.08.1992** Service defect: 'B - COOLING SYSTEM - TIGHTENED HOSES ON WATER RAIL. TIGHTENED PIPE TO RADIATOR.'.
**26.08.1992** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**26.08.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 7 LIGHT GLOBES REPLACED.'.
**26.08.1992** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOWS REPLACED. 4 EXHAUST GASKETS REPLACED.'.
**26.08.1992** Service defect: 'B - GENERAL - VIGILANCE COVER HINGES REPLACED BY PANELBEATER.'.
**26.08.1992** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE AIR FILTER REPLACED. 1 FLANGE LUBE NOZZLE AND BRAKET REPLACED.'.
**26.08.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPLACED. 1 SAND HOSE REPLACED. SANDERS MADE WORKABLE.'.
**26.08.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED. 1 BRAKE HOSE REPLACED.'.
**26.08.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 14 TRACTION MOTOR BRUSHES REPLACED.'.
**29.08.1992** Service defect: 'UN - ENGINE - ENGINE OIL LEAK. NEW GASKETS FITTED TO TWO CAM COVERS.'.
**03.09.1992** Service defect: 'UN - RADIO REPAIR - PHONE HANDSET REPLACED.'.
**17.09.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK FOUND.JOINT TIGHTENED.'.
**17.09.1992** Service defect: 'UN - RADIO REPAIR - PHONE CUTTING OUT. FAULT FIX.'.
**19.09.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.
**19.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FIREMANS SIDE SEAT REPAIRED.'.
**23.09.1992** Service defect: 'TW - ENGINE GOVERNOR MECHANICAL - OVER SPEED TRIP RESET.'.
**23.09.1992** Service defect: 'TW - NO FAULT FOUND - SR 2 CHECKED AND NO FAULT FOUND.'.
**12.10.1992** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER STRAIGHTENED.'.
**29.10.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED.'.
**29.10.1992** Service defect: 'UN - NO FAULT FOUND - A SERVICE CARRIED OUT WHILE TURBOCHARGER CHANGEOUT WAS IN PROGRESS.'.
**06.11.1992** Service defect: 'UN - RADIO REPAIR - UHF TRANSCEIVER AND POWER SUPPLY REPLACED.'.
**11.11.1992** Service defect: 'UN - BATTERY MAINTENANCE - INSUFFICIENT BATTERY VOLTAGE TO START ENGINE. JUMP STARTED AND ALLOWED TO RUN TO RECHARGE BATTERIES.'.
**11.11.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK TO CAMSHAFT FEED REPAIRED. OIL LEAK ON LUBE OIL PRIMING PUMP REPAIRED.'.
**14.11.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED NOISY COMPRESSOR. NO FAULT FOUND.'.
**18.11.1992** Service defect: 'UN - GENERAL - MISSING CATCH REPLACED ON VIGILANCE ISOLATOR.'.
**18.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - REPORTED VIBRATING UNDER POWER. FRONT TRACTION MOTOR BLOWER REPLACED WITH RECOND UNIT. NEW BELTS FITTED TO BOTH MOTORS.'.
**21.11.1992** Service defect: 'UN - STARTER MOTOR - B BANK STARTER MOTOR REPLACED.'.
**02.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE.'.
**02.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**12.12.1992** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK REPAIRED.'.
**12.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED VOLTAGE REGULATOR FAULT. CHECKED AND NO FAULT FOUND'.
**19.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - ENGINE PRESSURISING FAN BEARINGS REPLACED.'.
**12.01.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AMPS FAULT REPAIRED.'.
**12.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - THROTTLE AIR PRESSURE ADJUSTED.'.
**30.01.1993** Service defect: 'UN - STARTER MOTOR - ELECTRO RECONDITIONED STARTER MOTOR INSTALLED ON B SIDE.'.
**08.02.1993** Service defect: 'B - COOLING SYSTEM - COOLING WATER PIPE CLAMP TIGHTENED.'.
**08.02.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 GLOBES REPLACED. EDDY CURRENT CLUTCH CLEANED.'.
**08.02.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**08.02.1993** Service defect: 'B - FUEL SYSTEM LINES - 1 BANJO FUEL PIPE CONNECTION TIGHTENED ON B BANK.'.
**08.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE NOZZLE REPAIRED.'.
**08.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**08.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**11.02.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLAT WHEELS. BOGIES REMOVED AND REPLACED WITH BOGIES FROM ZB3.'.
**19.02.1993** Service defect: 'UN - ENGINE CYLINDER HEADS -

NUMBER 5 B BANK CYLINDER HEAD REPLACED.'.
**26.02.1993** Service defect: 'UN - RADIO REPAIR - PHONE PLUG RETIGHTENED.'.
**03.03.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - TRACTION MOTOR BLOWER SWITCHES REPLACED. PIPES TO SAME CLEANED.'.
**04.03.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**12.03.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHTS REPORTED AS DIM. TO BE MODIFIED NEXT C SERVICE.'.
**12.03.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - HOTPLATE LEVELED.'.
**12.03.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED LOW AMPS. CHECKED NO FAULT FOUND.'.
**12.03.1993** Service defect: 'TW - RADIO REPAIR - LOOSE CONNECTION IN TRANSCEIVER PLUG REPAIRED.'.
**20.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - LEADING TRACTION MOTOR BLOWER BELLOWS REPLACED.'.
**05.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - VANDALISED CAB WINDOWS REPLACED.'.
**07.04.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - WOULD NOT START. CAUSED BY PIECE OF GLASS FROM RECENTLY VANDALISED WINDOWS FALLING INTO SR3 JAMMING CONTACTS OPEN.'.
**13.04.1993** Service defect: 'UN - GENERAL - STOLEN FIRE EXTINGUISHERS REPLACED.'.
**13.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - VANDALISED CAB WINDOWS REPLACED.'.
**01.05.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**01.05.1993** Service defect: 'TS - NO FAULT FOUND - TRACK STOPPAGE 25/04/93 REPORTED LOSS OF AMPS. CHECKED AND NO FAULT FOUND.'.
**12.05.1993** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ULTRASONIC INSPECTION CARRIED OUT ON ALL AXLES.'.
**12.05.1993** Service defect: 'C - COOLING SYSTEM RADIATOR - RADIATOR MOUNT REPLACED ON A BANK. WATER FITTINGS TIGHTENED ON WATER RAILS.'.
**12.05.1993** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - REAR HEADLIGHT WIRING REPAIRED.'.
**12.05.1993** Service defect: 'C - ENGINE CYLINDER HEADS - NUMBER 2 INLET ROLLER REPLACED ON A BANK.'.
**12.05.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**12.05.1993** Service defect: 'C - EXHAUST - EXHAUST BELLOW REPLACED.'.
**12.05.1993** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FRONT FAN BEARING REPLACED.'.
**12.05.1993** Service defect: 'C - MECHANICAL EQUIPMENT - FLANGE LUBE PIPE REPAIRED.'.
**12.05.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED. FRONT TRACTION MOTOR BLOWER ADJUSTING BOLT REPLACED.'.
**12.05.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**12.05.1993** Service defect: 'C - TRACTION MOTOR - 6 TRACTION MOTOR GREASE NIPPLES REPLACED.'.
**28.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BLOWER BELT REPLACED.'.
**04.06.1993** Service defect: 'UN - NO FAULT FOUND - BOOST FAULT REPORTED. TEST RUN AND NO FAULT FOUND.'.
**04.06.1993** Service defect: 'UN - RADIO REPAIR - PHONE REPROGRAMMED.'.
**01.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**07.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - DERAILMENT DAMAGE REPAIRED. TRACTION MOTOR COVERS AND SAND PIPES REPAIRED.'.
**08.07.1993** Service defect: 'UN - RADIO REPAIR - PHONE AERIAL PLUG REPLACED.'.
**16.07.1993** Service defect: 'TW - COOLING SYSTEM - WATER RAIL GASKET REPLACED.'.
**16.07.1993** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - REAR HEADLIGHT REPLACED.'.
**29.07.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - AMMETER RECALIBRATED.'.
**29.07.1993** Service defect: 'UN - TRACTION MOTOR EARTH - NUMBER 1 & 6 TRACTION MOTORS REPLACED DUE TO EARTH FAULTS.'.
**03.08.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED. TRIAL RUN OK.'.
**09.08.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPAIRED.'.
**11.08.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED VOLTAGE REGULATOR FAULT. CHECKED AND NO FAULT FOUND'.
**16.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - LEADING TRAC MOT BLOWER BELT REPLACED. AUXILLIARY GEN BELT REPLACED'.
**18.08.1993** Service defect: 'B - COOLING SYSTEM RADIATOR - WATER PIPE TIGHTENED UP UNDER RADIATOR ELEMENTS ON DRIVERS SIDE.'.
**18.08.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**18.08.1993** Service defect: 'B - EXHAUST - EXHAUST BELLOW AND EXHAUST GASKETS REPLACED.'.
**18.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED SAND PIPE REPAIRED.'.
**15.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDOMETER RESISTANCE LIGHT HOLDER REPLACED.'.
**15.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN BRAKE PIPE COUPLING REPLACED. BRAKES ADJUSTED.'.
**16.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE COUPLING REPAIRED. FLOW METER ADJUSTED.'.
**18.09.1993** Service defect: 'UN - NO FAULT FOUND - CHECK.'.
**06.10.1993** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - REAR HEADLIGHT REPLACED.'.
**06.10.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**06.10.1993** Service defect: 'TW - MECHANICAL

MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**02.02.1994** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - OIL PRESSURE PIPE TO GOVERNOR REPLACED.'.

**04.02.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - REPORTED FLAMES COMING OUT STACK. TURBO DRAINS ETC CHECKED AND TESTED. APPEARS O.K.NOW.'.

**08.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**23.02.1994** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - GOVERNOR REPLACED.'.

**23.02.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED.'.

**03.03.1994** Service defect: 'B - AUXILLARY MACHINES - AUXILLIARY GENERATOR REPLACED.**********'.

**03.03.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - RECTIFIER CUBICLE CLEANED. CLR1 RESISTOR REPAIRED. VOLTAGE ADJUSTED TO 112V'.

**03.03.1994** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOWS REPLACED.'.

**03.03.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED.'.

**03.03.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**03.03.1994** Service defect: 'B - RADIO REPAIR - RADIO POWER SUPPLY REPAIRED. PHONE AERIAL REPLACED.'.

**17.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MARKER LIGHTS REPAIRED.'.

**17.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**31.05.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED LOAD REGULATOR FAULT. CHECKED AND NO FAULT FOUND.'.

**13.07.1994** Service defect: 'UN - EXHAUST - REPLACED #3 & #4 EXHAUST BELLOWS GASKETS B BANK.'.

**23.08.1994** Service defect: 'UN - EXHAUST - EXHAUST LEAKS REPAIRED.'.

**07.09.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - M2 REPLACED. BF SWITCHES RECALIBRATED.'.

**07.09.1994** Service defect: 'B - COOLING SYSTEM RADIATOR - BOTH RADIATOR MOUNTS ON A SIDE REPLACED. SUMP DRAIN COUPLING REPAIRED. HEADER TANK REPAIRED.'.

**07.09.1994** Service defect: 'B - ELECT. MISC. - GAUGES & INSTRUMENTS - NEW GAUGE FLURO LIGHTS INSTALLED. NEW 3 SETTING HEATER SWITCHES INSTALLED.'.

**07.09.1994** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - NEW WIRING FOR WATER TEMP SWITCHES. NEW WIRING REAR HEADLIGHT.'.

**07.09.1994** Service defect: 'B - ENGINE CYLINDER HEADS - A BANK #2 & #4 HEAD GASKETS REPLACED. 2 EXHAUST BELLOWS CHGD1 SANDER HOSE AND 1 FLANGE LUBE HOSE REPLACED.'.

**07.09.1994** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER SLEEVE REPLACED. FRONT DRIVE PLATE GEN END REPLACED. BRAKES ADJUSTED.'.

**07.09.1994** Service defect: 'B - MECHANICAL EQUIPMENT - TRAC MOT BLOWER ADJ BOLTS REPAIRED. BELT TIGHTENED. FUEL DAMPER DIAPHRAGM REPLACED.'.

**07.09.1994** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR AIR LEAKS REPAIRED. COMP EP VALVE REPLACED. BRAKE CYLINDER AIR LEAK REPAIRED.'.

**07.09.1994** Service defect: 'B - RADIO REPAIR - AERIAL REPLACED. SPEEDO MODIFICATION CARRIED OUT.'.

### ZB 6

Details: locomotive 'ZB 6 P' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $118810
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** Q 39M
**Date Built:** 01.01.1977
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** STORED;EX Q.R. 2355
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 08.05.1992 | | |
| Last Lift: | 12.03.1984 | | |
| B Service Mileage: | 309913 KM | B Service Date: | 06.03.1991 |
| C Service Mileage: | 312147 KM | C Service Date: | 15.01.1992 |
| F Service Mileage: | 870936 KM | A Service Date: | 12.03.1984 |
| US Service Mileage: | 315291 KM | A Service Date: | 08.05.1992 |

**18.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (11)LAMPS REPL.'.

**18.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**18.07.1989** Service defect: 'TW - RADIO REPAIR - LAMP REPL.& TESTED 'OK'.'.

**21.07.1989** Service defect: 'UN - NO FAULT FOUND - SPEEDO CHECKED 'OK'.'.

**24.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES VOLTS TESTED 'OK'.)'.

**01.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.

**01.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**01.08.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.

**02.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**02.08.1989** Service defect: 'UN - NO FAULT FOUND - AMPS CHECKED 'OK'.'.

**04.08.1989** Service defect: 'B - BOGIE - (2)PLATES FITTED UNDER REAR TRIMOUNTS.'.

**04.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED & (1) W/FLANGE LUBE.NOZZLE REPL.'.
**04.08.1989** Service defect: 'B - ENGINE WATER LEAK - REPAIRED WATER LEAK ON WATER RAIL.'.
**04.08.1989** Service defect: 'B - GENERAL - *SPEEDO READ 208637K/M ON LOCO.'.
**04.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (2)SAND PIPES REPAIRED.'.
**04.08.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**06.09.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**06.09.1989** Service defect: 'TS - GENERAL - 'A'SERVICE. *SPEEDO READ 213581K/M ON LOCO.'.
**06.09.1989** Service defect: 'TS - NO FAULT FOUND - CHECKED FOR EARTHS 'OK'.'.
**12.09.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**14.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED LIGHTS.'.
**14.09.1989** Service defect: 'UN - RADIO REPAIR - REPAIRED RADIO.'.
**20.09.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTHS ON CONTROL CIRCUITS REMOVED.'.
**20.09.1989** Service defect: 'UN - EXHAUST - BELLOWS REPLACED.'.
**20.09.1989** Service defect: 'UN - GENERAL - K/M ON LOCO READ 216074. (SCREEN READ 238498K/M)'.
**20.09.1989** Service defect: 'UN - STARTER MOTOR - (2)STARTER MOTORS REPLACED.'.
**27.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**27.09.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPAIRED.'.
**27.09.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 216783K/M ON LOCO.'.
**27.09.1989** Service defect: 'UN - NO FAULT FOUND - TESTED FOR EARTH FAULTS 'OK'.'.
**27.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - DOOR LOCK REPAIRED (BROKEN)'.
**03.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL. & STEP LIGHT SECURED.'.
**03.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.*SPEEDO READ 216842K/M ON LOCO.'.
**09.10.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 217187K/M ON LOCO.'.
**09.10.1989** Service defect: 'UN - NO FAULT FOUND - LIGHTING TESTED 'OK'.'.
**11.10.1989** Service defect: 'UN - GENERAL - SPEEDO READ 217291 K/M ON LOCO.'.
**11.10.1989** Service defect: 'UN - STARTER MOTOR - D/SIDE STARTER MOTOR REPL.'.
**25.10.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 217593 K/M ON LOCO.'.
**25.10.1989** Service defect: 'UN - STARTER MOTOR - EARTH FAULT REMOVED FROM S/MOTOR CIRCUIT.'.
**01.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED CAB LIGHTS.'.
**01.11.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 218270 K/M ON LOCO.'.
**17.05.1990** Service defect: 'UN - FUEL SYSTEM LINES - H/P PIPE REPLACED (LEAKING).'.
**17.05.1990** Service defect: 'UN - GENERAL - *SPEEDO ON LOCO READ 231828K/M.'.
**17.05.1990** Service defect: 'UN - LUBRICATING SYSTEM - REPAIRED OIL LEAK NEAR GOV.'.
**17.05.1990** Service defect: 'UN - NO FAULT FOUND - RECTIFIER CHECKED 'OK'.'.
**15.06.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 01-06-1990 AT 2000HRS.SPEEDO 235466K/M.'.
**15.06.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (1)SAND HOSE RENEWED.'.
**15.06.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (3)BLOCKS REPL.& ADJUSTED.'.
**19.06.1990** Service defect: 'UN - GENERAL - *SPEEDO ON LOCO 238561K/M.'.
**28.08.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - BLOWER FAILURE SWITCHES REMOVED CLEANED,ADJUSTED & REPL.'.
**28.08.1990** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK ON WATER RAIL REPAIRED.'.
**28.08.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 246086K/M.'.
**28.08.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (2)HOSES REPL.'.
**28.08.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (3)BLOCKS REPL.& ADJ.'.
**28.08.1990** Service defect: 'B - TRACTION MOTOR - V-RING ON NO.3 MOTOR CLEANED & REPAINTED.'.
**04.12.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 7 LAMPS REPLACED'.
**04.12.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 269593 KM.'.
**04.12.1990** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE HOSE REPAIRED'.
**04.12.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE RENEWED'.
**04.12.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK CHANGED AND ADJUSTED'.
**04.12.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 T/M BRUSHES REPLACED'.
**06.03.1991** Service defect: 'B - - 6 T/M BRUSHES REPLACED'.
**06.03.1991** Service defect: 'B - BOGIE - TRI MOUNT WELDED,AXLE BOX WELDED,RUBBING PLATE ON BOGIE REPLACED'.
**06.03.1991** Service defect: 'B - COOLING SYSTEM - FAN BELT RENEWED'.
**06.03.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 7 LAMPS REPLACED'.
**06.03.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 289006 KM.'.
**06.03.1991** Service defect: 'B - LUBRICATING SYSTEM - PIPE ABOVE OIL FILTERS WELDED'.
**06.03.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 3 SAND PIPES RENEWED'.
**06.03.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS CHANGED'.
**19.12.1991** Service defect: 'UN - STARTER MOTOR - STARTER MOTOR FAULT.'.
**08.05.1992** Service defect: 'UN - STARTER MOTOR - AWAITING STARTING MOTORS FROM GERMANY.'.
**08.05.1992** Service defect: 'UN - AWAITING STARTING

MOTORS FROM GERMANY.'.

**ZB 7**

Details: locomotive 'ZB 7 B' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $204300
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L34
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2356
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 30.05.1991 | | |
| Last Lift: | 01.06.1985 | | |
| B Service Mileage: | 270965 KM | B Service Date: | 06.11.1990 |
| C Service Mileage: | 216418 KM | C Service Date: | 04.05.1989 |
| F Service Mileage: | 583151 KM | A Service Date: | 01.06.1985 |
| US Service Mileage: | 271072 KM | A Service Date: | 30.05.1991 |

**13.07.1989** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**13.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**13.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO RENEWED.'.
**20.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH RENEWED.'.
**20.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOCO NUMBER LIGHTS REPAIRED.'.
**20.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**01.08.1989** Service defect: 'UN - NO FAULT FOUND - HEATERS CHECKED 'OK'.'.
**14.08.1989** Service defect: 'TW - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES)'.
**14.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**14.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - REPAIRED HEATER.'.
**14.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**14.08.1989** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDPIPES SET TO RAIL.'.
**14.08.1989** Service defect: 'TW - STARTER MOTOR - REPAIRED WIRING ON STARTER MOTOR.'.
**29.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**29.08.1989** Service defect: 'UN - NO FAULT FOUND - HEATERS TESTED 'OK'.'.
**06.09.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**11.09.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**18.09.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SAND SOLENOID REPL.(BURNTOUT COIL)'.
**18.09.1989** Service defect: 'TS - GENERAL - 'A'SERVICE.'.
**18.09.1989** Service defect: 'TS - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**20.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**20.09.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**20.09.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**26.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**28.09.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPAIRED.'.
**02.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**06.10.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**02.08.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBES.'.
**02.08.1990** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - L/HAND SIDE HEATER SWITCH REPL.'.
**02.08.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - REPAIRED D.B.R.1 & P.C.2 RELAYS.'.
**02.08.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.& STEP LIGHT SOCKET REPAIRED.'.
**02.08.1990** Service defect: 'B - EXHAUST - (2)EXHAUST BELLOW GASKETS REPL.'.
**02.08.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 251833K/M.'.
**02.08.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (4)HOSES REPL.'.
**06.11.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 267685 KM.'.
**06.11.1990** Service defect: 'B - LUBRICATING SYSTEM - OIL RAIL REPAIRED'.
**06.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT - WHEEL FLANGE LUBE NOZZLE REPAIRED,SAFETY CHAIN REPAIRED GAUGES REPAIRED IN CAB.'.
**06.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED'.
**06.11.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - FULL SET OF BLOCKS REPLACED,BRAKE PIPE HOSE REPLACED'.
**30.05.1991** Service defect: 'UN - STORED'.
**99.99.9999** Service defect: 'SW - STORED'.

**ZB 8**

Details: locomotive 'ZB 8 K' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO

**Original Cost:** $92540
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** Q 39M
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2357
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 11.09.1996 | | |
| Last Lift: | 01.03.1985 | | |
| SW Service Mileage: | 413382 KM | SW Service Date: | 08.10.1992 |
| A Service Mileage: | 514698 KM | A Service Date: | 01.09.1994 |
| B Service Mileage: | 576890 KM | B Service Date: | 10.11.1995 |
| C Service Mileage: | 425032 KM | C Service Date: | 12.12.1992 |
| F Service Mileage: | 0 KM | A Service Date: | 01.03.1985 |
| US Service Mileage: | 629794 KM | A Service Date: | 11.09.1996 |

**11.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED ELECT.'OK' (SHUT ITSELF DOWN).'.
**17.07.1989** Service defect: 'TS - BOGIE - MANGANESE PLATE RENEWED.'.
**17.07.1989** Service defect: 'TS - GENERAL - 'A'SERVICE.'.
**18.07.1989** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - NO.2 & 5 T/MOTORS FAULTY.(TEST RUN)'.
**25.07.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - HEATERS REPAIRED.'.
**25.07.1989** Service defect: 'TS - NO FAULT FOUND - NO.1 & 6 T/MOTORS CHECKED FOR EARTHS 'OK'.'.
**31.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**31.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED FOR EARTH FAULTS &F/DIVERSION 'OK'.'.
**01.08.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**02.08.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**21.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**21.08.1989** Service defect: 'B - ENGINE - TAPPETS NO.3 'B'BANK ADJ.'.
**21.08.1989** Service defect: 'B - ENGINE WATER LEAK - SEVERAL WATER LEAKS REPAIRED.'.
**21.08.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (1)BLOCK REPL.& ALL BRAKES ADJ.'.
**23.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RECTIFIER CHECKED 'OK'.'.
**23.08.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV.OIL TOPPED UP.'.
**23.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO LIGHT REPL.'.
**05.09.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**05.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**29.09.1989** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED'.
**29.09.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**29.09.1989** Service defect: 'UN - NO FAULT FOUND - W/SLIP & D/BRAKE TESTED 'OK'.'.
**29.09.1989** Service defect: 'UN - TRACTION MOTOR - BELLOW REPL. (TORN)'.
**03.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (9)LAMPS REPL.& F/RIGHT STEP LIGHT SOCKET REPL.'.
**03.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**06.10.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - RECTIFIER RELAY RESET.'.
**18.10.1989** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - REPAIRED OIL PIPE (SPLIT).'.
**13.03.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - M1 & M2 CONTACTS TIGHTENED.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - H/PLATE SWITCH REPL.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**13.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 27-02-90.SPEEDO READ 223135K/M.'.
**13.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (5)BLOCKS REPL.& ADJ.'.
**13.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPLL.'.
**18.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE. *SPEEDO ON LOCO READ 235395K/M.'.
**04.01.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - WIPERS REPAIRED'.
**23.05.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NO.6 WHEEL SET REPLACED DUE TO SHARP FLANGES'.
**23.05.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 275012KM.'.
**23.05.1991** Service defect: 'UN - TRACTION MOTOR EARTH - EARTH TRACED TO INTERPOLE ON NO. 2 TRACTION MOTOR, NO. 2 TRACTION MOTOR REPLACED'.
**19.06.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - LEADING T/M BLOWER REPLACED'.
**21.06.1991** Service defect: 'TS - GENERAL - SPEEDO ON LOCO READ 277476KM.'.
**21.06.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - FRONT WIPER BLADE REPLACED'.
**21.06.1991** Service defect: 'TS - OTHER BODY REPAIRS - FRONT DOOR REPAIRED'.
**22.06.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - GOV. OIL TOPPED UP'.
**02.07.1991** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR TESTED OK.'.
**02.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**03.07.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED & TESTED OK.'.
**11.07.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NO.1 WHEEL SET REPLACED A/C FLAT WHEELS'.
**11.07.1991** Service defect: 'TS - TRACTION MOTOR BRUSHES - NO.6 TRACTION MOTOR BRUSH HOLDER (TOP) REPLACED'.
**19.07.1991** Service defect: 'UN - STARTER MOTOR - BOTH STARTER MOTORS REPLACED'.
**23.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED'.
**30.07.1991** Service defect: 'UN - STARTER MOTOR - DRIVER SIDE STARTER MOTOR REPLACED'.

**03.08.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH REPAIRED'.
**03.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER SWITCH REPLACED'.
**06.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - MISSING FLY WHEEL COVER REPLACED'.
**07.08.1991** Service defect: 'UN - STARTER MOTOR - DRIVERS SIDE STARTER MOTOR REPLACED'.
**08.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - RECTIFIER FAILURE RESET & LOCO TESTED OK.'.
**13.08.1991** Service defect: 'B - AUXILLARY MACHINES - FULL SET OF OIL PUMP BRUSHES REPLACED,OIL PUMP COMMUTATOR CLEANED & STONED.'.
**13.08.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - M.C.3. REPAIRED'.
**13.08.1991** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH CLEANED'.
**13.08.1991** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - CONTACT BLOCKS ON F.A.R. & A.R. REPLACED F.A.R. CONTACTS REPLACED'.
**13.08.1991** Service defect: 'B - EXHAUST - 1 SMALL EXHAUST BELLOW GASKET CHANGED'.
**13.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED,SANDS CLEARED'.
**13.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED'.
**13.08.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 12 TRACTION MOTOR BRUSHES REPLACED'.
**23.08.1991** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR ELEMENT REPLACED'.
**14.09.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH HEATERS'.
**23.10.1991** Service defect: 'UN - BOGIE - BOGIE FRAMES REPLACED'.
**23.10.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO.4 TRACTION MOTOR REPLACED A/C EARTHS'.
**25.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED & 1 SAND HOSE REPLACED'.
**01.11.1991** Service defect: 'TS - OTHER BODY REPAIRS - REAR F/S WINDOW REPLACED'.
**06.11.1991** Service defect: 'UN - RADIO REPAIR - U.H.F. RADIO REPLACED'.
**08.11.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BROKEN WIRE REPAIRED & WIRING LOOM REPOSITIONED A/C LOCO NOT AMPING'.
**12.11.1991** Service defect: 'UN - NO FAULT FOUND - FAULT ALARM TESTED OK.'.
**11.05.1992** Service defect: 'TS - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP.'.
**11.05.1992** Service defect: 'TS - STARTER MOTOR - B BANK STARTER MOTOR REPLACED. CRANKING VOLTAGE REDUCED TO 65 VOLTS.'.
**13.05.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD POTENTIOMETER REPLACED.'.
**15.05.1992** Service defect: 'UN - STARTER MOTOR - B BANK STARTER MOTOR CHANGED.'.
**02.06.1992** Service defect: 'TW - STARTER MOTOR - FAULT STARTER MOTOR ARMATURE BUSH FELL OUT. BUSH REPLACED.'.
**03.06.1992** Service defect: 'TS - STARTER MOTOR - STUD AT REAR OF B BANK STARTER MOTOR BLEW OUT.'.
**18.06.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - LUBE PRIMING CONTACTOR REMOVED CHECKED AND PUT BACK IN.'.
**18.06.1992** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP.'.
**18.06.1992** Service defect: 'UN - STARTER MOTOR - B SIDE STARTER MOTOR REPLACED.'.
**25.06.1992** Service defect: 'UN - FUEL SYSTEM LINES - HIGH PRESSURE PIPE ON ONE OF A BANK FUEL PUMPS REPLACED.'.
**25.06.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.
**07.07.1992** Service defect: 'TW - STARTER MOTOR - B SIDE STARTER MOTOR CHANGED.'.
**08.07.1992** Service defect: 'TW - ENGINE GOVERNOR - FAULT BOOST WARNING SHUT DOWN NO REASON. GOVERNOR OIL TOP UP FIXED PROBLEM.'.
**24.07.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - 1 BLOWER GASKET REPLACED.'.
**24.07.1992** Service defect: 'B - EXHAUST - 1 EXHAUST GASKET REPLACED.'.
**24.07.1992** Service defect: 'B - FUEL SYSTEM LINES - 2 FUEL DRAIN HOSES REPLACED.'.
**24.07.1992** Service defect: 'B - LUBRICATING SYSTEM - 1 OIL PIPE TIGHTENED UP.'.
**24.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FAN BELT REPLACED.'.
**24.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED.'.
**24.07.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 9 BRAKE BLOCKS CHANGED AND ADJUSTED.'.
**24.07.1992** Service defect: 'B - STARTER MOTOR - TWO STARTER MOTORS REPLACED.'.
**29.07.1992** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP.'.
**29.07.1992** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTORS #3 & #4 EARTH FAULTS CAUSED BY DAMP CONDITIONS. MOTORS DRIED AND TESTED OK.'.
**08.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MARKER LIGHTS REPLACED.'.
**08.08.1992** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP.'.
**08.08.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED PHONE FAULT. NO FAULT FOUND.'.
**12.08.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED PHONE AND WHEELSLIP FAULTS. WHEN CHECKED IN WORKSHOP NO FAULT FOUND.'.
**14.08.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED FLAT WHEELS. NO FAULT FOUND.'.
**14.08.1992** Service defect: 'UN - RADIO REPAIR - LOOSE PLUG ON TRANCEIVER REPAIRED.'.
**17.08.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP.'.
**18.08.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - CHECK MADE ON WHEELS TO CONFIRM REPORTED FLATS. THERE WERE SMALL FLATS BUT IT WAS THOUGHT THEY WOULD WEAR DOWN.'.
**18.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - DAMAGED FLYWHEEL COVER REPAIRED.'.

**18.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - RELAY VALVE CHANGED JUST IN CASE THIS WAS CAUSING BRAKES TO LOCK ON CAUSING WHEEL FLATS.'.
**28.08.1992** Service defect: 'UN - RADIO REPAIR - PHONE TRANCEIVER UNIT CHANGED.'.
**03.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE FUNCTIONAL.'.
**03.09.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED AMPS FAULT AFTER HEAVY RAIN. NO FAULT FOUND.'.
**03.09.1992** Service defect: 'UN - RADIO REPAIR - PHONE HANDPIECE REPLACED.'.
**18.09.1992** Service defect: 'TW - ENGINE GOVERNOR MECHANICAL - GOV. OIL FILLED UP.'.
**06.10.1992** Service defect: 'UN - BROKEN PIPE - BROKEN FLANGE ON OIL RAIL PIPE REPAIRED.'.
**07.10.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BOOST ALARM SNAP SWITCH ADJUSTED.'.
**08.10.1992** Service defect: 'SW - ELECTRICAL MISC. AC/DC RELAYS - CURRENT REGULATION SLAVE RELAY REPLACED.'.
**15.10.1992** Service defect: 'TW - RADIO REPAIR - BROKEN WIRES IN POWER CABLE TO TRANSCEIVER REPLACED.'.
**29.10.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED 1800 AMPS IN NOTCH ONE. NO FAULT FOUND.'.
**21.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**28.11.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VIGILANCE BUTTON REPAIRED.'.
**28.11.1992** Service defect: 'UN - NO FAULT FOUND - OIL LEAK REPORTED. NO OIL LEAK FOUND. RADIO FAULT REPORTED. TESTED AND NO FAULT FOUND.'.
**30.11.1992** Service defect: 'TW - COOLING SYSTEM - SPLIT HEADER TANK REPAIRED.'.
**02.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED RECTIFIER FAIL ALARM SOUNDING CONSTANTLY. NO FAULT FOUND.'.
**04.12.1992** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED.'.
**04.12.1992** Service defect: 'UN - WHEELSLIP - WHEELSLIP FAULT WILL BE CHECKED ON LOAD TANK AS LOCO IS TO HAVE C SERVICE NEXT WEEK.'.
**12.12.1992** Service defect: 'C - BLOCKED FILTERS - PONGLASS FILTERS CLEANED.'.
**12.12.1992** Service defect: 'C - ENGINE CYLINDER HEADS - REPLACED NUMBER 4 B BANK HEAD GASKET'.
**12.12.1992** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**12.12.1992** Service defect: 'C - EXHAUST - 1 EXHAUST BELLOWS GASKET REPLACED.'.
**12.12.1992** Service defect: 'C - LUBRICATING SYSTEM - REPAIRED OIL PIPE COUPLING TO REAR OF OIL PRIMING PUMP.'.
**12.12.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**18.12.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MC1 CONTACTOR AND OVERLOADS REPLACED. TESTED ON LOAD TANK.'.
**20.01.1993** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR FAULT ON TIMS SHEET. LOCO TESTED ON LOAD TANK'.
**10.02.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MOTOR CONTACTOR OVERLOADS CHECKED AND ADJUSTED.'.
**10.02.1993** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE CONECTION IN GENERATOR BATTERY FIELD CIRCUIT REPAIRED.'.
**10.02.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HIGH RESISTANCE IN MAIN GENERATOR BUSBAR REPAIRED.'.
**11.03.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR POTENTIOMETER REPAIRED.'.
**16.03.1993** Service defect: 'UN - TRACTION MOTOR EARTH - NUMBER 6 TRACTION MOTOR DOWN TO EARTH AND REPLACED.'.
**27.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**08.04.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - SPEEDOMETER DRIVE REPLACED.'.
**27.04.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION CARRIED OUT ON ALL AXLES.'.
**27.04.1993** Service defect: 'B - COOLING SYSTEM - WATER PIPE RAIL TIGHTENED ON B BANK.'.
**27.04.1993** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED.'.
**27.04.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**27.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT - WHISTLE CORD REPLACED.'.
**27.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED. BRAKES ADJUSTED.'.
**06.05.1993** Service defect: 'TS - TRACTION MOTOR FLASHOVER - TRACTION MOTORS FLASHOVER. NUMBER 2 AND 5 TRACTION MOTORS REPLACED.'.
**17.05.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NUMBER 3 TRACTION MOTOR REPLACED.'.
**12.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**12.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.06.1993** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - WATER TEMP SWITCH 2 REPLACED.'.
**24.06.1993** Service defect: 'TW - NO FAULT FOUND - EARTH LINK WAS OUT ON ENTERING SHOP. CHECKED AND NO FAULT FOUND.'.
**24.06.1993** Service defect: 'TW - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**02.07.1993** Service defect: 'UN - NO FAULT FOUND - AMPS FAULT REPORTED. CHECKED AND TEST RUN TO ROCHERLEA. NO FAULT FOUND.'.
**08.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - DERAILMENT DAMAGE REPAIRED.'.
**31.07.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED IN FIELD DIVERSION RESISTANCES.'.

**02.08.1993** Service defect: 'UN - STARTER MOTOR - 1 STARTER MOTOR BURNED OUT. BOTH STARTER MOTORS REPLACED.'.
**10.08.1993** Service defect: 'TW - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**14.08.1993** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.
**14.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR CHECKED.'.
**14.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**25.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER REPAIRS CARRIED OUT.'.
**25.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - BROKEN YOKE REPLACED IN FRONT COUPLING.'.
**25.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - ROOF REPAIRS CARRIED OUT.'.
**28.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**28.08.1993** Service defect: 'UN - VIGILANCE - VIGILANCE CHECKED.'.
**16.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NOSE ELECTRICAL CUBICLE BLOWN OUT.****'.
**30.11.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED.'.
**10.02.1994** Service defect: 'UN - BOGIE - LOCO TO UNDERGO B SERVICE AND SUSPENSION BEARING REPLACEMENT WILL BE DONE THEN.'.
**22.02.1994** Service defect: 'B - COOLING SYSTEM RADIATOR - 1 RADIATOR ELEMENT REPLACED.'.
**22.02.1994** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOW REPLACED.'.
**22.02.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS CHANGED AND ADJUSTED.'.
**22.02.1994** Service defect: 'B - OTHER BODY REPAIRS - 2 DOORS REPAIRED.'.
**25.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**25.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**25.02.1994** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.
**18.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**21.03.1994** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPAIRED.'.
**21.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**21.03.1994** Service defect: 'UN - NO FAULT FOUND - AMPS CHECKED.'.
**23.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**16.04.1994** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR #6 REPLACED.********** TRAC MOTOR #1 CHECKED AND OK.'.
**27.05.1994** Service defect: 'A - ELECTRICAL MISC. AC/DC RELAYS - RF7 CLEANED AND CHECKED.'.
**27.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT - WHEEL FLANGE TANK REPAIRED.'.
**27.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**21.06.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS IN GOVERNOR AND DETONATOR SENSING DEVICE CLEARED.'.
**27.07.1994** Service defect: 'UN - BOGIE - BOGIE CHANGE CARRIED OUT.'.
**27.07.1994** Service defect: 'UN - OTHER BODY REPAIRS - DERAILMENT DAMAGE REPAIRED. DERAILED AT DON JUNCTION VANDAL INCIDENT.*****'.
**17.08.1994** Service defect: 'TS - EXHAUST - EXHAUST PLUGS REPLACED. MAIN RESERVOIR PIPE REPAIRED OUT ON TRACK.'.
**01.09.1994** Service defect: 'A - BOGIE - SPLIT REPAIRED IN NUMBER 6 OIL BOX.'.
**18.02.1996** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - HEADLIGHT REPAIRED'.

**ZB 9**

Details: locomotive 'ZB 9 T' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $141020
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** Q 39M
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** STORED 15.03.94;EX Q.R. 2358
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 03.03.1994 | | |
| Last Lift: | 11.04.1989 | | |
| B Service Mileage: | 594400 KM | B Service Date: | 20.10.1993 |
| C Service Mileage: | 532935 KM | C Service Date: | 23.07.1992 |
| F Service Mileage: | 0 KM | A Service Date: | 11.04.1989 |
| US Service Mileage: | 616048 KM | A Service Date: | 03.03.1994 |

**10.07.1989** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRICATORS REPAIRED.'.
**10.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**10.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**10.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**10.07.1989** Service defect: 'TW - TRACTION MOTOR EARTH - NO.1&2 MOTORS REPL.'.
**14.07.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRICATORS REPAIRED & NOZZLES RENEWED.'.

**14.07.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FIRE DETECTION CIRCUIT REPAIRED & RE-LABELLED.'.
**14.07.1989** Service defect: 'B - GENERAL - H/PRESSURE PIPE TIGHTENED.'.
**14.07.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**14.07.1989** Service defect: 'B - TRACTION MOTOR - BELLOWS RENEWED.'.
**21.07.1989** Service defect: 'UN - FUEL SYSTEM PUMP - REPL.FUEL PUMP.'.
**27.07.1989** Service defect: 'UN - GENERAL - TESTED ON LOAD TANK.(BOOST)'.
**31.07.1989** Service defect: 'TS - BODY REPAIRS - ACCIDENT - STEPS RENEWED.(ACCIDENT NO.K450)'.
**31.07.1989** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**31.07.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO RENEWED.'.
**03.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES),BATTERIES WATERED.'.
**29.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**29.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - STEP LIGHT REPAIRED.(BROKEN)'.
**29.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**15.09.1989** Service defect: 'UN - LUBRICATING SYSTEM - REPAIRED OIL LEAKS.'.
**03.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**03.10.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPL.'.
**03.10.1989** Service defect: 'B - FUEL SYSTEM PUMP - FUEL LEAK STOPPED ON NO.5 PUMP 'A'BANK.'.
**03.10.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**03.10.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (12)BRUSHES REPL.'.
**09.10.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - REPAIRED HEADLIGHT.'.
**09.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPL.(BROKEN)'.
**26.10.1989** Service defect: 'UN - COOLING SYSTEM - WATER CHANGED.'.
**26.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**26.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRED ENGINE ROOM DOOR.'.
**30.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**30.10.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**01.11.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**16.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**16.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE GREASED.'.
**21.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR CUTOUT REPAIRED.'.
**21.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**21.12.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**21.12.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**21.12.1989** Service defect: 'TW - VIGILANCE - VIGILANCE ADJ.'.
**28.03.1990** Service defect: 'TW - RADIO REPAIR - RADIO HAND SET REPLACED.'.
**10.04.1990** Service defect: 'C - CONTACTOR MISCELLANEOUS - MC5 CONTACT ADJ.'.
**10.04.1990** Service defect: 'C - ELECTRICAL MISC. AC/DC RELAYS - CRR RELAY REPL.'.
**10.04.1990** Service defect: 'C - GENERAL - *LOCO BOOKED ON 05-04-90.'.
**10.04.1990** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**10.04.1990** Service defect: 'C - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**12.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT KNUCKLE REPLACED.'.
**12.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE RENEWED.'.
**12.04.1990** Service defect: 'UN - OTHER BODY REPAIRS - ROOF LEAK REPAIRED.'.
**02.05.1990** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED FOR EARTH FAULTS TESTED 'OK'.'.
**16.05.1990** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - REPL.GAUGE LAMPS.'.
**16.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**16.05.1990** Service defect: 'TW - NO FAULT FOUND - NO.3&4 T/MOTORS ISOLATED MOTOR CIRCUIT MEGGERED,W/SLIP CIRCUIT CHECKED & FOUND 'OK'.'.
**16.07.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.& REAR LIGHTING PLUG & WIRING REPAIRED.'.
**16.07.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 271877K/M.'.
**16.07.1990** Service defect: 'B - LUBRICATING SYSTEM - MIDDLE OIL FILTER GASKET REPL.'.
**16.07.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (3)BLOCKS REPL.& ADJ.'.
**16.07.1990** Service defect: 'B - STARTER MOTOR - REPAIRED S/MOTOR & REPL.STARTER CONTACTORS.'.
**03.10.1990** Service defect: 'B - BOGIE MAINTENANCE - SPRINGS - NO.2 BOTTOM SUSPENSION BOLT REPLACED'.
**03.10.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**03.10.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 4 LAMPS REPLACED,POTENTIOMETER COVER REPLACED'.
**03.10.1990** Service defect: 'B - FUEL SYSTEM PUMP - NO.3 FUEL PUMP WASHER CHANGED'.
**03.10.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 283146K/M.'.
**03.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SHAFT REPLACED'.
**03.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - DRAFT BLOCK CRACKED'.
**03.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**03.10.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BLOCKS REPLACED'.

**03.10.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 8 T/M BRUSHES REPLACED'.
**11.01.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FRONT MARKER LIGHT REPAIRED'.
**11.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 300786KM.'.
**11.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT - REAR WIPER MOTOR REPLACED'.
**11.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE'.
**11.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK CHANGED AND ADJUSTED'.
**30.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER SWITCH REPLACED'.
**30.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED'.
**03.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOAD REGULATOR FAULT FOUND TO BE WITH ZB 13.'.
**05.06.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - FAULTY MICRO SWITCH ON CURRENT BALANCE RELAY REPLACED'.
**05.06.1991** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - EARTH FAULT RESISTANCE REPLACED'.
**06.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - REAR COW CATCHER STRAIGHTENED'.
**20.06.1991** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - FIELD DIVERSION RESISTANCE POST INSULATING WASHERS REPLACED'.
**25.06.1991** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE INSULATORS CLEANED,LOCO TO BE TEST RUN'.
**26.07.1991** Service defect: 'UN - TRACTION MOTOR EARTH - EARTH FAULT TRACED TO CABLE RUBBED THROUGH AT CONNECTION POINT ON NO.2 TRACTION MOTOR'.
**29.07.1991** Service defect: 'TS - DRIVER FAULT - AMP PROBLEM CAUSED BY THROTTLE COCK BEING LEFT OPEN'.
**29.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - HEATER SWITCH REPLACED'.
**05.08.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - 2 DYNAMIC BRAKE CABLES REPLACED & 1 CABLE REPAIRED A/C WORN THROUGH ON BULKHEAD AT REAR OF LOCO,LOCO MEGGERED OK.'.
**05.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - LOCO TEST RUN TO ROCHERLEA OK.'.
**13.08.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH TRACED TO DYNAMIC BRAKE CUBICLE,CABLES REPAIRED & TESTRUN TO E.T.J.OK.'.
**13.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER SWITCH DRIVERS SIDE REPLACED'.
**22.08.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR ADJUSTED'.
**29.08.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTHS TRACED TO JUMPER WIRING & REPAIRED'.
**03.09.1991** Service defect: 'TW - ELECTRICAL MISC. AC/DC RELAYS - P.C.1 & P.C.2 TESTED OK. A/C AMPS BOOKING'.
**03.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**05.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO TESTED OK. A/C NO AMPS WHEN COUPLED'.
**11.09.1991** Service defect: 'TS - BATTERY MAINTENANCE - LOCO BATTERIES CHARGED & VOLTAGE ADJUSTED'.
**14.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**18.09.1991** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH REPLACED'.
**18.09.1991** Service defect: 'TS - ELECTRICAL MISC. TRANSITION - FIELD DIVERSION TESTED OK.'.
**18.09.1991** Service defect: 'TS - RADIO REPAIR - RADIO TESTED OK.'.
**25.09.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - LOCO AMP FAULT CAUSED BY '5' WIRE GOING TO JUMPER SOCKET BLOWING APART IN CONDUIT,A NEW '5' WIRE RUN'.
**27.09.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.
**28.09.1991** Service defect: 'UN - NO FAULT FOUND - PANEL LIGHTS CHECKED OK.'.
**05.10.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO TRANSMITTER REPLACED'.
**11.10.1991** Service defect: 'TS - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE RESET'.
**11.10.1991** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - WHEEL FLANGE LUBE OIL PUMP TIGHTENED'.
**14.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**15.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHARGED'.
**15.10.1991** Service defect: 'UN - RADIO REPAIR - STATIC CONVERTER REPLACED'.
**17.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHARGED'.
**17.10.1991** Service defect: 'UN - NO FAULT FOUND - JUMPER SOCKETS TESTED OK.,LOCO MEGGERED OK.'.
**18.10.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETE **'.
**18.10.1991** Service defect: 'TW - NO FAULT FOUND - PRIMING TESTED OK.'.
**26.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL LEAK REPAIRED'.
**02.11.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO RESISTANCE REPLACED'.
**19.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**26.11.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETE **'.
**26.11.1991** Service defect: 'TW - LUBRICATING SYSTEM - OIL LEAK AT 'T' JUNCTION ON CAMSHAFT REPAIRED'.
**19.12.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - SHUT DOWN NO REASON GIVEN'.
**06.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FAULTY INVERTOR ON LUMINECENT PANEL LIGHTS CAUSING INTERFERENCE ON UHF RADIO. DIRTY AMP METER.'.
**08.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - INSTRUMENT LAMPS REPLACED.'.

**08.05.1992** Service defect: 'UN - RADIO REPAIR - HANDSET CONNECTED TO UHF RADIO TO COMPLETE INSTALLATION.'.
**14.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLOURESCENT STRIPS FITTED IN GAUGES. SPEEDO LIGHT REPLACED.'.
**14.05.1992** Service defect: 'UN - GENERAL - CAB MODIFICATIONS COMPLETED.'.
**18.05.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HAND BRAKE SWITCH REPLACED.'.
**26.05.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAULT FIX.'.
**26.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO FAULT FIX.'.
**01.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - MISSING CAB WINDOW REPLACED.'.
**17.06.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN PIPE TO BRAKE CYLINDER REPAIRED.'.
**26.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTOMATIC BRAKE HEAD CHANGED.'.
**30.06.1992** Service defect: 'UN - LUBRICATING SYSTEM - SMALL OIL LEAK REPAIRED. OIL ON FOOTPLATE CLEANED OFF.'.
**03.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER DAMAGE REPAIRED.'.
**03.07.1992** Service defect: 'UN - RADIO REPAIR - RADIO AND PHONE FAULT CAUSED BY BLOWN FUSES. THESE WERE REPLACED.'.
**23.07.1992** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ALL AXLES ULTRASOUND TESTED FOR FLAWS. R SCOTT CONCERNED OVER SIGNAL ON #2 AXLE. THOUGHT TO BE STRESS RELIEVE GROOVE.'.
**23.07.1992** Service defect: 'C - CONTACTOR MISCELLANEOUS - M1 AND M2 CONTACTS RENEWED.'.
**23.07.1992** Service defect: 'C - COOLING SYSTEM - ONE WATER HOSE REPLACED.'.
**23.07.1992** Service defect: 'C - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPAIRED.'.
**23.07.1992** Service defect: 'C - MECHANICAL EQUIPMENT - ONE FLANGE LUBE NOZZLE REPLACED.'.
**23.07.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE. ONE SAND HOSE REPLACED.'.
**23.07.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 10 BRAKE BLOCKS CHANGED AND ADJUSTED.'.
**23.07.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - TOP TRACTION MOTOR BRUSHES REPLACED.'.
**29.07.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED FAULT IN VOLTAGE REGULATOR. NO FAULT FOUND.'.
**03.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FLOW METER GLASS AND FLOURO STRIP REPLACED.'.
**08.08.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.
**08.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FLOWMETER GLASS REPLACED.'.
**12.08.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED SPEEDOMETER JUMPING. TESTED AND NO FAULT FOUND.'.
**14.08.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.
**14.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER ELECTRIC DRIVE UNIT ON AXLE CHANGED.'.
**18.08.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.
**17.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**17.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - F.S. SPEEDO FIX.'.
**18.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - CONTROL VALVE REPLACED.'.
**21.09.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.09.1992** Service defect: 'TS - NO FAULT FOUND - LOSS OF AMPS CAUSED A TRACK STOPPAGE ON THIS LOCO TRAIN 3108MAIN CIRCUIT BREAKER DROPPED OUT. NO FAULT FOUND.'.
**30.09.1992** Service defect: 'TS - OTHER BODY REPAIRS - FIREMANS SIDE DOOR SEAL REPLACED.'.
**14.10.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED. TESTED ON LOAD TANK.'.
**14.10.1992** Service defect: 'UN - GENERAL - BODY WASHED.'.
**27.10.1992** Service defect: 'TW - STARTER MOTOR - A BANK STARTER MOTOR REPLACED.'.
**28.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDOMETER RESISTANCE LAMP REPLACED.'.
**25.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - DRIVERS SIDE SEAT REPLACED.'.
**26.11.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**02.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE.'.
**02.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**14.01.1993** Service defect: 'B - BOGIE MAINTENANCE - WICKS - SUSPENSION BEARING FELTS CHECKED.'.
**14.01.1993** Service defect: 'B - EARTH FAULT MISCELLANEOUS - EARTH FAULTS DUE TO WIRING FAULT REPAIRED.'.
**14.01.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**14.01.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FLOWMETER GAUGE AND FLOWMETER VALVE REPLACED.'.
**14.01.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**14.01.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**14.01.1993** Service defect: 'B - NO FAULT FOUND - NO ELECTRICAL SERVICE SHEET RECEIVED AT THIS DATE.'.
**08.02.1993** Service defect: 'UN - TRACTION MOTOR SUSPENSION BEARING - NUMBER 6 TRACTION MOTOR REPLACED DUE TO SUSPENSION BEARING

DAMAGE.'.
**19.02.1993** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.
**19.02.1993** Service defect: 'UN - RADIO REPAIR - TELEPHONE/RADIO FAULT CAUSED BY LOOSE WIRE ON TERMINAL STRIP'.
**12.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**20.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.03.1993** Service defect: 'TS - NO FAULT FOUND - TRACK STOPPAGE CAUSED BY WHEEL SLIP REPORTED IN TRACTION MOTORS 1 & 6. TESTED IN SHOPS AND NO FAULT FOUND.'.
**23.03.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**25.03.1993** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE CONNECTIONS IN WIRES TO MC1 REPAIRED.'.
**25.03.1993** Service defect: 'UN - WHEELSLIP - WHEEL SLIP REPORTED ON TRACTION MOTORS 1 & 6. REPLACED MC1 RELAY.'.
**13.04.1993** Service defect: 'B - COOLING SYSTEM WATER PUMP - WATER PUMP IDLER GEAR GASKET REPLACED.'.
**13.04.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**13.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE OIL PIPE REPAIRED.'.
**13.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - REAR CENTRE COUPLING REPAIRED.'.
**13.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED.'.
**21.04.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - NUMBER 1 TRACTION MOTOR FLASHED OVER. CHECKED AND WAS PUT BACK INTO SERVICE.'.
**06.05.1993** Service defect: 'UN - FUEL SYSTEM LINES - LEAKING FUEL DAMPER REPAIRED.'.
**13.05.1993** Service defect: 'UN - TRACTION MOTOR FLASHOVER - TRACTION MOTOR FLASHOVER. TRACTION MOTORS NUMBER 1,3, AND 4 REPLACED.'.
**26.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**26.05.1993** Service defect: 'TW - RADIO REPAIR - TRANSCEIVER REPLACED.'.
**12.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**12.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.06.1993** Service defect: 'TW - DYNAMIC BRAKE - TEST RUN TO CONARA TO TEST DYNAMIC BRAKE. NO FAULT FOUND.'.
**03.07.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED. TEST RUN AND OK.'.
**06.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE INJECTOR REPLACED. 2 FLANGE LUBE PIPES REPLACED.'.
**06.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPLACED.'.
**06.07.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**19.07.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL AND LIGHTING EARTHS CLEARED.'.
**28.07.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - SECTION OF WIRING REPLACED IN LIGHTING CIRCUIT.'.
**03.08.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - SPEEDOMETER AXLE DRIVE GENERATOR REPLACED.'.
**03.08.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE COUPLINGS REPLACED DUE TO DRAGGING.'.
**03.08.1993** Service defect: 'TW - NO FAULT FOUND - WHEELSLIP REPORTED. CHECKED OK.'.
**11.08.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - OIL PRESS SHUTDOWN SWITCH REPAIRED.'.
**11.08.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED FAULT IN 3 AND 4 TRAC MOTOR. CHECKED AND NO FAULT FOUND.'.
**18.08.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - CHARGE COOLER WATER LEAK ON DRIVERS SIDE REPAIRED.'.
**18.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT TRACTION MOTOR BLOWER REPAIRED.'.
**23.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - BENT COWCATCHER REPAIRED.'.
**09.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WIPER REPAIRED.'.
**09.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.09.1993** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.
**17.09.1993** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - VIGILANCE EARTH FAULTS CLEARED.'.
**09.10.1993** Service defect: 'TW - RADIO REPAIR - RADIO REPAIRS CARRIED OUT AT QUICK FIX.'.
**15.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND VALVE REPAIRED.'.
**15.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT BRAKE CYLINDER REPLACED.'.
**15.10.1993** Service defect: 'UN - OTHER BODY REPAIRS - STEP REPAIRED.'.
**04.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BELLOWS REPLACED.'.
**04.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED. AIR LEAK ON BRAKE CYLINDER REPAIRED.'.
**04.02.1994** Service defect: 'UN - RADIO REPAIR - PHONE AND RADIO REPAIRS CARRIED OUT.'.
**04.02.1994** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTORS #3 & #4 MEGGERED.'.
**08.02.1994** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**08.02.1994** Service defect: 'TW - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**14.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - SMASH REPAIRS.'.

**17.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE WORK.'.
**17.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**17.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**03.03.1994** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - MC RELAYS #1 & #6 CLEANED.'.
**03.03.1994** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - ENGINE GOVERNOR REPLACED.'.

**ZB 10**

Details: locomotive 'ZB 10 P' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $232880
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L34
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2359
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 22.08.1996 | | |
| Last Lift: | 14.11.1985 | | |
| A Service Mileage: | 593110 KM | A Service Date: | 30.09.1994 |
| B Service Mileage: | 698376 KM | B Service Date: | 29.05.1996 |
| C Service Mileage: | 585052 KM | C Service Date: | 06.07.1994 |
| F Service Mileage: | 0 KM | A Service Date: | 14.11.1985 |
| US Service Mileage: | 717262 KM | A Service Date: | 22.08.1996 |

**28.08.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL CHANGE .'.
**28.08.1989** Service defect: 'UN - GENERAL - 'A'SERVICE'.
**28.09.1989** Service defect: 'UN - ENGINE WATER LEAK - REPAIRED WATER LEAKS.'.
**28.09.1989** Service defect: 'UN - GENERAL - F/SIDE SEAT REPAIRED.'.
**28.09.1989** Service defect: 'UN - NO FAULT FOUND - W/SLIP TESTED 'OK'.'.
**28.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRED WINDOW SEALS.'.
**30.09.1989** Service defect: 'UN - GENERAL - *NOTE SPEEDO READ 201783 K/M ON LOCO.'.
**30.09.1989** Service defect: 'UN - GENERAL SHUTDOWN - SHUT DOWN ROD ADJ.BY MECH. FITTERS.'.
**09.10.1989** Service defect: 'TS - GENERAL - *SPEEDO READ 203272K/M.ON LOCO.'.
**10.10.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 203323K/M ON LOCO.'.
**10.10.1989** Service defect: 'UN - NO FAULT FOUND - VOLTAGE REG.CHECKED 'OK'.'.
**27.10.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 205863 K/M ON LOCO.'.
**27.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED ON RAIL.'.
**27.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - WIPER REPAIRED.'.
**27.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED.'.
**08.03.1990** Service defect: 'B - ENGINE - NO.5 'B'BANK ROCKER PEDESTAL REPL.'.
**08.03.1990** Service defect: 'B - FUEL SYSTEM - NO.6 'B'BANK F/CAM REPL.'.
**08.03.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 224143K/M.'.
**22.03.1990** Service defect: 'UN - RADIO REPAIR - RADIO CHANGED.'.
**16.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPL. MARKER LIGHTS.'.
**16.05.1990** Service defect: 'UN - GENERAL - FOOTPLATE CLEANED OF OIL.'.
**29.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED'.
**29.05.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 241874K/M'.
**29.05.1990** Service defect: 'B - MECHANICAL EQUIPMENT - WATER AND AIR LEAKS REPAIRED'.
**29.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - REPLACED 1 BRAKE BLOCK'.
**05.09.1990** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - H/PLATE SWITCH REPL.& W/TEMP. SWITCH TESTED.'.
**05.09.1990** Service defect: 'C - ELECTRICAL MISC - LOAD REGULATOR - POTENTIOMETER COVER REPL.'.
**05.09.1990** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.& COVER D/SIDE CAB LIGHT REPL.'.
**05.09.1990** Service defect: 'C - ENGINE WATER LEAK - WATER LEAKS REPAIRED.'.
**05.09.1990** Service defect: 'C - FUEL SYSTEM PUMP - NO. 6 'B'BANK F/PUMP REPL.'.
**05.09.1990** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**05.09.1990** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**05.09.1990** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 258517KM.'.
**18.12.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 279120KM.'.
**18.12.1990** Service defect: 'B - MECHANICAL EQUIPMENT - WHEEL FLANGE LUBRICATORS REPAIRED'.
**18.12.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED'.
**18.12.1990** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 279120KM.'.
**19.03.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**19.03.1991** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 295197 K/M.'.
**19.03.1991** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WIPER BLADE REPLACED D/S'.
**19.03.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED,M.R.AIR HOSE REPLACED'.

**13.06.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - 1 FLANGE LUBE NOZZLE REPLACED,1 FLANGE LUBE PIPE REPLACED'.
**13.06.1991** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - O.P.R. RELAY REPAIRED'.
**13.06.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - RADIATOR DOOR SWITCH MADE WORKABLE,3 GLOBES REPLACED WHEEL SLIP GAUGE LIGHT REPLACED'.
**13.06.1991** Service defect: 'B - FUEL SYSTEM PUMP - NO.5 FUEL PUMP WASHER 'B' BANK REPLACED'.
**13.06.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 306061KM.'.
**13.06.1991** Service defect: 'B - LUBRICATING SYSTEM - MAIN OIL PUMP PIPE TIGHTENED'.
**13.06.1991** Service defect: 'B - MECHANICAL EQUIPMENT - FLOW METER GUAGE REPAIRED,REAR T/M BLOWER REPAIRED, RADIATOR MOUNTING BOLTS TIGHTENED,FRONT WIPER REPAIRED'.
**13.06.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE'.
**13.06.1991** Service defect: 'B - RADIO REPAIR - BLOWN RADIO FUSE REPLACED'.
**13.06.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 T/M BRUSHES REPLACED'.
**17.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - F.D.T.SNAP SWITCH REPLACED,F.L.R.CONTACTS CLEANED F.D.C.3.AUXILLARY CONTACTS CLEANED,F.D.DIODE REPLACED'.
**17.06.1991** Service defect: 'UN - LUBRICATING SYSTEM - BROKEN OIL PIPE REPAIRED'.
**19.06.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - BURNT OUT COIL ON S.W.R.3.REPLACED,LOCO TESTED O.K.'.
**21.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - BOOST DETECTION SWITCH REMOVED & ADJUSTED ON THE BENCH LOCO TESTED ON THE TRACK O.K.'.
**22.06.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - MC.3 E.P.VALVE REPLACED'.
**26.06.1991** Service defect: 'UN - GENERAL - LOCO TEST RUN TO ROCHERLEA OK.'.
**27.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - D/S WINDOW RESEALED'.
**29.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - OIL CLEANED OFF FOOTPLATE'.
**04.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - REAR D/S DOOR LOCKING MECHANISM LUBRICATED'.
**08.07.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE - REVERSER - 'O' RING BLOCKING AIR FLOW TO REVERSER,'O' RINGS RENEWED & REVERSER TESTED OK.'.
**13.07.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - CONTACTS OF P.C.2 WELDED CAUSING LOCO NOT TO AMP,RELAY REPAIRED & LOCO TESTED OK'.
**13.07.1991** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP WASHER REPLACED'.
**25.07.1991** Service defect: 'UN - NO FAULT FOUND - UNABLE TO FAULT LOCO AMPING OR FIELD DIVERSION,LOCO TEST RUNTO E.T.J. OK.'.
**25.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**25.07.1991** Service defect: 'UN - STARTER MOTOR - 2 STARTER MOTORS REPLACED'.
**30.07.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK. NO FAULTS LOGGED'.
**07.08.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - FIELD DIVERSION DIODE REPLACED'.
**07.08.1991** Service defect: 'TS - OTHER BODY REPAIRS - MISSING ROOF REPLACED'.
**07.08.1991** Service defect: 'TS - STARTER MOTOR - STARTER MOTOR REPLACED'.
**08.08.1991** Service defect: 'UN - NO FAULT FOUND - LOCO STARTED OK. AT WORKSHOPS'.
**10.08.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING TO D/S HEATER REPAIRED'.
**19.08.1991** Service defect: 'UN - STARTER MOTOR - DRIVERS SIDE STARTER MOTOR REPLACED'.
**29.08.1991** Service defect: 'UN - STARTER MOTOR - STARTER MOTOR REPLACED'.
**04.09.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - SPEEDO LIGHT REPAIRED'.
**04.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**07.09.1991** Service defect: 'UN - RADIO REPAIR - BLOWN RADIO FUSES REPLACED'.
**09.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED'.
**11.09.1991** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.
**11.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**19.09.1991** Service defect: 'TS - OTHER BODY REPAIRS - BROKEN WINDOW REPLACED REAR D/S DOOR'.
**30.09.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,2 LUBRICATORS REPAIRED'.
**30.09.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - M.3.REMOVED & REPAIRED'.
**30.09.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 8 GLOBES REPLACED'.
**30.09.1991** Service defect: 'B - MECHANICAL EQUIPMENT - WATER HEADER TANK REPAIRED'.
**30.09.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 5 SETS OF TRACTION MOTOR BRUSHES REPLACED'.
**02.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE COCK REPLACED'.
**15.10.1991** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - RUBBED CABLE ON NO.5 MOTOR REPAIRED A/C EARTHS'.
**02.11.1991** Service defect: 'UN - RADIO REPAIR - U.H.F RADIO REPLACED'.
**16.05.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CHANGED.'.
**16.05.1992** Service defect: 'UN - GENERAL - CAB CLEANED.'.
**16.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WIPERS REPAIRED.'.
**16.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.06.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLAT WHEELS. ALL SIX WHEEL SETS REMOVED FROM BOGIES SKIMMED IN WHEEL LATHE AND REPLACED.'.
**08.07.1992** Service defect: 'C - ELECTRICAL MISC. AC/DC

RELAYS - DYNAMIC BRAKE FAN MOTOR RELAY REPLACED.'.

**08.07.1992** Service defect: 'C - ELECTRICAL MISCELLANEOUS - TEN LIGHTS REPLACED (UNSPECIFIED).'.

**08.07.1992** Service defect: 'C - LUBRICATING SYSTEM - OIL PIPE RUBBER GASKETS RENEWED ON ENGINE OIL PUMP. SIX OIL DRAINS TIGHTENED UP.'.

**08.07.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - FOUR SAND HOSES RENEWED. TWO SAND PIPES RENEWED.'.

**08.07.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - TWO BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.

**08.07.1992** Service defect: 'C - TRACTION MOTOR BRUSHES - NINE SETS OF TRACTION MOTOR BRUSHES REPLACED.'.

**15.07.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - REPORTED ROUGH RIDE OVER 50 KM/H. SUSPENSION EXAMINED AND FOUND TO NEED REPACKING. WILL BE DONE AT A LATER DATE.'.

**15.07.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED AMPS AND PHONE FAULTS. NONE FOUND.'.

**17.07.1992** Service defect: 'UN - BOGIE - 0.5 INCH PLATES FITTED UNDER TRIMOUNTS TO CORRECT SUSPENSION'.

**30.07.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**04.08.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER REPAIRED.'.

**04.08.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - DAMAGE TO RECTIFIER RELAY CONTACTS WAS SUSPECTED CAUSED BY TAMPERING. RELAY CONTACTS REPAIRED.'.

**14.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE.'.

**14.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - RAINWATER LEAKS IN CAB PLUGGED.'.

**26.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - DAMAGED COW CATCHER REPLACED.'.

**04.09.1992** Service defect: 'UN - GENERAL - CAB BLINDS REPAIRED.'.

**17.09.1992** Service defect: 'UN - RADIO REPAIR - UHF HANDSET FAULTY. HANDSET REPLACED.'.

**22.09.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - NUMBER 1 NOSE SUSPENSION SPRINGS ADJUSTED.'.

**22.09.1992** Service defect: 'UN - TRACTION MOTOR - NUMBER 6 TRACTION MOTOR REPLACED.'.

**30.09.1992** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPLACED.'.

**17.10.1992** Service defect: 'B - BLOCKED FILTERS - PONGLASS FILTERS REPLACED.'.

**17.10.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**17.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE NOZZLES REPAIRED.'.

**17.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**17.10.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**17.10.1992** Service defect: 'B - TRACTION MOTOR - NUMBER 5 TRACTION MOTOR CABLES TIED.'.

**26.10.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE COWLING MODIFIED. BROKEN LUG ON DYNAMIC BRAKE SHUNT REPAIRED.'.

**14.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**09.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED DROPPING AMPS AND NUMBERS 2 AND 5 TRACTION MOTORS ISOLATED. TESTED AND NO FAULT FOUND.'.

**14.12.1992** Service defect: 'UN - NO FAULT FOUND - EARTH FAULT REPORTED ON NUMBER 2 AND 5 TRACTION MOTORS. CHECKED AND TAKEN FOR TEST RUN WITH NO FAULT FOUND.'.

**19.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**28.01.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - WIPER MOTOR REPAIRED.'.

**06.02.1993** Service defect: 'UN - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.'.

**18.02.1993** Service defect: 'B - BATTERY MAINTENANCE - BATTERY BOX COVER REPLACED.'.

**18.02.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES ULTRASOUND TESTED FOR CRACKS.'.

**18.02.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 3 GLOBES REPLACED. POTENTIOMETER CLEANED.'.

**18.02.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**18.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT - TRACTION MOTOR BELLOWS REPLACED ON MOTORS #3 AND #4.'.

**18.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**18.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.

**18.02.1993** Service defect: 'B - OTHER BODY REPAIRS - DOOR LOCK REPAIRED.'.

**18.02.1993** Service defect: 'B - TRACTION MOTOR - TRACTION MOTOR COVERS REPLACED.'.

**26.02.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AUX LIGHTING CONTACTOR DROPS OUT WHEN NUMERAL LIGHTS SWITCHED ON. CHECKED AND NO FAULT FOUND.'.

**11.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.

**18.03.1993** Service defect: 'TW - STARTER MOTOR - TWO REBUILT DELCO REMY STARTER MOTORS FITTED.'.

**29.03.1993** Service defect: 'TS - NO FAULT FOUND - REPORTED AS WOULD NOT AMP. CHECKED AND NO FAULT FOUND.'.

**02.04.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - TRACK STOPPAGE DUE TO ENGINE ROLLING POPPING GOV BUTTON OUT.TANK TESTED AND GOVERNOR COMPENSATING NEEDLE ADJUSTED.'.

**02.04.1993** Service defect: 'UN - GENERAL - AS THIS WAS A TRACK STOPPAGE I AM BOOKING OUT NOW SO B.J CANENTER IT AS SUCH AND IT WILL BE BOOKED BACK IN FOR MORE WORK'.

**02.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AS ROLLING, GOV BUTTON POPPING OUT, RECT FAIL ALARM ALL THESE FAULTS TO BE CHECKED ON TANK.'.
**27.04.1993** Service defect: 'TW - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED.'.
**27.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - VANDALISED CAB WINDOWS REPLACED.'.
**08.05.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - INSTRUMENT LIGHTS REPAIRED.'.
**08.05.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT FLOURESCENT TUBE REPLACED. STEP MARKER LAMPS REPAIRED.'.
**08.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**12.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED BURNING SMELL IN CAB. CHECKED AND NO FAULT FOUND.'.
**18.05.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE INOPERATIVE. TO BE REPAIRED AT LATER DATE.'.
**18.05.1993** Service defect: 'UN - RADIO REPAIR - RADIO TRANSCEIVER REPLACED.'.
**01.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION CARRIED OUT ON ALL AXLES.'.
**01.06.1993** Service defect: 'B - COOLING SYSTEM - A AND B BANK WATER RAIL JOINTS TIGHTENED.'.
**01.06.1993** Service defect: 'B - COOLING SYSTEM RADIATOR - 1 RADIATOR ELEMENT REPLACED. WATER JOINT IN RADIATOR COMPARTMENT TIGHTENED.'.
**01.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED.'.
**01.06.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**04.06.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHT GLOBES REPLACED.'.
**04.06.1993** Service defect: 'UN - NO FAULT FOUND - BOOST FAULT REPORTED. TEST RUN AND NO FAULT FOUND.'.
**08.06.1993** Service defect: 'TS - NO FAULT FOUND - STOPPAGE CAUSED BY REPORTED VIGILANCE FAULT. M. NUNN CHECKEDAT LOCO LAUNCESTON & OK. TO BE CHECKED IN WORKSHOP 10/06/93.'.
**10.06.1993** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - LEADING JUMPER SOCKET COVER REPLACED.'.
**10.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ELECTRICAL FAULT CHECKED IN VIGILANCE. POWER KNOCKOUT SWITCHREPLACED.'.
**16.06.1993** Service defect: 'TS - VIGILANCE - VIGILANCE FAULT CAUSED STOPPAGE. WHEN VIGILANCE ISOLATED THEFAULT DISSAPEARS. VIGILANCE ISOLATED AND WORKED TO LAUNCESTN'.
**19.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FAULT TRACE CARRIED OUT IN VIGILANCE CIRCUIT. NO FAULT FOUNDTO BE TAKEN ON TEST RUN.'.
**28.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - DERAILMENT DAMAGED REAR COUPLER AND YOKE REPLACED.'.
**28.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPLACED.'.
**28.06.1993** Service defect: 'UN - TRACTION MOTOR - 3 TRACTION MOTOR COVERS REPLACED DUE TO DERAILMENT DAMAGE.'.
**03.07.1993** Service defect: 'UN - BROKEN PIPE - BROKEN PIPE TO VIGILANCE BOX REPLACED.'.
**03.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT CABLE TO DYNAMIC BRAKE REPLACED.'.
**06.07.1993** Service defect: 'UN - NO FAULT FOUND - BROUGHT INTO SHOP BECAUSE DYNAMIC BRAKE FAULT IN LOG BOOK. FAULT HAD BEEN REPAIRED ON SATURDAY BUT NOT SIGNED OFF.'.
**31.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPLACED BURNT WIRING IN TRUNKING NEAR DYNAMIC BRAKE CUBICLE'.
**20.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING IN TRUNKING REPLACED AND EARTH FAULTS CLEARED.'.
**07.10.1993** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - CONTACTS IN RELAYS IN STARTING CIRCUIT CLEANED.'.
**07.10.1993** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPAIRED.'.
**09.10.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - CHECK CARRIED OUT ON THROTTLE AIR PRESSURE ADJUSTMENT.'.
**25.11.1993** Service defect: 'TS - BROKEN PIPE - BROKEN PIPE TO MAIN AIR RESERVOIR REPAIRED.'.
**10.02.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER SHROUD REPLACED.'.
**10.02.1994** Service defect: 'UN - STARTER MOTOR - BOTH DELCO REMY STARTER MOTORS REPLACED WITH ELECTRO REBUILTMOTORS.**********
**14.02.1994** Service defect: 'TW - MECHANICAL EQUIPMENT - TRACTION MOTOR BELLOWS SECURED. AXLE BOX BOLT REPLACED.'.
**14.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.
**15.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DRIVERS SIDE CAB LIGHT REPAIRED.'.
**21.02.1994** Service defect: 'UN - COOLING SYSTEM - WATER PUMP REPAIRED.'.
**03.03.1994** Service defect: 'UN - RADIATOR/PRESSURISING FAN - EDDY CURRENT CLUTCH REPLACED.'.
**14.03.1994** Service defect: 'TW - MECH. EQUIPMENT RADIATOR FAN GEARBOX - TOP SHAFT ASSEMBLY AND BEVEL GEAR REPLACED ON FAN DRIVE GEARBOX.'.
**24.03.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MC4 SOLENOID REPAIRED.'.
**04.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE CAB DOOR REPAIRED. CAB DRAUGHTS STOPPED.'.
**28.05.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - PC1 REPLACED.'.
**27.06.1994** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE SURGING, FAULTS IN LOAD REGULATOR AND POTENTIOMETER, EARTHS TO BE LOOKED AT ON C SERVICE FOLLOWING'.
**06.07.1994** Service defect: 'C - CONTACTOR

MISCELLANEOUS - MC6 REPLACED ALL OTHER MC CONTACTS CLEANED UP.'.

**06.07.1994** Service defect: 'C - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED. VOLTS ADJUSTED.'.

**06.07.1994** Service defect: 'C - ELECTRICAL MISCELLANEOUS - 2 STEP LIGHTS REPLACED.'.

**06.07.1994** Service defect: 'C - ENGINE CYLINDER HEADS - #6B HEAD GASKET REPLACED. RADIATOR MOUNTS TIGHTENED.'.

**06.07.1994** Service defect: 'C - EXHAUST - 1 EXHAUST BELLOW REPLACED. MANGANESE PLATE WELDED.'.

**06.07.1994** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - REAR DRIVE SHAFT REPLACED. RADIATOR FAN SUPPORT WELDED. DRIVE PLATE GEARBOX TO FAN REPLACED.'.

**20.07.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT CLEARED IN SPEED CURRENT LIMIT CIRCUIT.'.

**29.08.1994** Service defect: 'TS - ENGINE - DUE TO A DROPPED VALVE AND ENGINE DAMAGE AND A DOWNTURN IN FREIGHT THIS LOCO IS TO BE STORED UNTIL FURTHER NOTICE.'.

**29.09.1994** Service defect: 'TS - ENGINE PISTON - NUMBER 1, 2, AND 3 A BANK PISTONS, CYLINDER LINERS, AND CYLINDER HEADS REPLACED.**********'.

**29.09.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED WITH OVERHAULED UNIT.**********'.

**11.09.1995** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - OIL PRESSURE RELAY STICKING. RELAY FREED UP AN OK.'.

**14.02.1996** Service defect: 'TS - STARTER MOTOR - ONE STARTER MOTOR BURNT OUT. TO BE BROUGHT TO LAUNCESTON.'.

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**04.07.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - REPAIRS TO LIGHTS.'.

**04.07.1989** Service defect: 'TS - GENERAL - *SPEEDO READ 161011 K/M ON LOCO.'.

**10.07.1989** Service defect: 'TS - FUEL SYSTEM PUMP - REPAIRED FUEL LEAK ON NO.2'B'BANK PUMP.'.

**10.07.1989** Service defect: 'TS - GENERAL - *SPEEDO READ 161807 K/M ON LOCO.'.

**10.07.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**28.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.

**28.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE. *SPEEDO READ 173068K/M ON LOCO.'.

**28.08.1989** Service defect: 'TW - RADIO REPAIR - RADIO REPL.'.

**18.01.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL CONTACTS TRUED UP.'.

**18.01.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (2)LAMPS REPL.& CAB LIGHTS REPAIRED.'.

**18.01.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 187576K/M.'.

**18.01.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS REPL.& ADJ.'.

**18.01.1990** Service defect: 'B - TRACTION MOTOR - NO.1 MOTOR TO BE REPL.(BEARING)'.

**18.01.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.

**04.04.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 194396K/M.'.

**23.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 20-04-90.(K/M ON LOCO READ 197357)'.

**23.04.1990** Service defect: 'UN - VIGILANCE - REPLACED DIODE.'.

**16.08.1990** Service defect: 'B - DYNAMIC BRAKE - REPAIRED CONTACTORS.'.

**16.08.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.& REAR MARKER LIGHT REWIRED.'.

**16.08.1990** Service defect: 'B - EXHAUST - BOTTOM BELLOW REPL.'.

**16.08.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 215835K/M.'.

**16.08.1990** Service defect: 'B - MECHANICAL EQUIPMENT - REPAIRED D/SIDE W/WIPER.'.

**16.08.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (10)BLOCKS REPL.& ADJ.'.

**16.08.1990** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - NEW FAULT HORN INSTALLED.'.

**16.08.1990** Service defect: 'B - RADIO REPAIR - FUSE HOLDER REPAIRED & RADIO NO.68375 INSTALLED.'.

**16.08.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.

**16.08.1990** Service defect: 'B - VIGILANCE - REFITTED NEW KIT IN AIR VALVE.'.

**07.01.1991** Service defect: 'B - ELECTRICAL MISC - LOAD REGULATOR - TESTED FOR EXCESSIVE AMPING OK.'.

**07.01.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REPAIRED D/S FAN,REPAIRED BROKEN LIGHT IN ENGINE ROOM'.

**07.01.1991** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 225596 K/M.'.

**07.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED'.

**07.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED,1 AIR HOSE RENEWED'.

**09.04.1991** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - HANDBRAKE SWITCH WIRING REPAIRED'.

**09.04.1991** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - RF7 CONTACTS REPAIRED'.

**09.04.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 10 LAMPS REPLACED CONTROL 0.02 MEGS.'.

**09.04.1991** Service defect: 'B - FUEL SYSTEM LINES - FUEL OVERFLOW PIPE RENEWED'.

**09.04.1991** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 236968 K/M.'.

**09.04.1991** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE TANK RENEWED'.

**09.04.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED'.

**23.05.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - C.P.R.RELAY REPLACED DUE TO COIL

BURNING OUT'.

**23.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIRE EXTINGUISHER RESIDUE CLEANED FROM CUBICLE'.

**30.05.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - 1 HEADLIGHT GLOBE REPLACED'.

**30.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - 1 HEATER SWITCH D/S REPLACED,AMPS CHECKED O.K.ON TEST RUN'.

**30.05.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 244135KM.'.

**30.05.1991** Service defect: 'UN - RADIO REPAIR - RADIO TESTED O.K.'.

**07.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 245927KM.'.

**07.06.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK CAUSED BY OIL FILLER CAP LOOSE ON PIPE'.

**25.06.1991** Service defect: 'UN - STARTER MOTOR - 2 STARTER MOTORS REPLACED'.

**27.06.1991** Service defect: 'UN - NO FAULT FOUND - JUMPER SOCKET TESTED OK.AND SECURED'.

**29.06.1991** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED'.

**06.07.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.

**06.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING TO VOLTAGE REGULATOR REPAIRED'.

**08.07.1991** Service defect: 'UN - RADIO REPAIR - STATIC CONVERTER REPLACED,RADIO TESTED OK.'.

**09.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - D/S SEAT ADJUSTING BOLT REPLACED'.

**09.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**26.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FLOURO TUBE REPLACED IN CAB LIGHT'.

**07.08.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.

**09.08.1991** Service defect: 'TW - ENGINE GOVERNOR MECHANICAL - GOV.OIL TOPPED UP'.

**09.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.

**24.08.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE NOZZLES MADE WORKABLE'.

**24.08.1991** Service defect: 'B - COOLING SYSTEM - WATER RAIL COUPLING TIGHTENED UP ON 'B' BANK'.

**24.08.1991** Service defect: 'B - FUEL SYSTEM PUMP - NO.5 FUEL PUMP WASHER TIGHTENED DOWN ON 'B' BANK'.

**24.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.

**24.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - SPLIT PIN REPLACED IN BRAKE ARM'.

**28.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE WORKABLE'.

**28.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**04.09.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPLACED'.

**14.09.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING TO HOT PLATE SWITCH REPAIRED'.

**14.09.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPLACED'.

**25.09.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT FOUND IN VIGILANCE & RECTIFIED'.

**03.10.1991** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED'.

**05.10.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT FLOURO.REPAIRED'.

**11.10.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL EARTHS CLEARED'.

**11.10.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPLACED'.

**11.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**21.10.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - F/S HEATER ELEMENT REPLACED'.

**21.10.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETE **'.

**23.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - F/S DOOR LOCK REPAIRED'.

**23.10.1991** Service defect: 'UN - STARTER MOTOR - DRIVERS SIDE STARTER MOTOR REPLACED'.

**28.10.1991** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - 'O' RING IN OIL COOLER REPLACED A/C LEAKING OIL'.

**01.11.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO RESISTOR REPLACED'.

**01.11.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL LEAK AT REAR OF ENGINE REPAIRED'.

**12.11.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - ENGINE ROOM START BUTTON REPLACED A/C LOCO NOT STARTING'.

**19.11.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV. OIL TOPPED UP'.

**19.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**21.05.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING TO REAR HEADLIGHT CAUSED BY LOOSE CONNECTION.'.

**21.05.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED NOT AMPING WHEN COUPLED TO OTHER LOCOMOTIVES. NO FAULT FOUND.'.

**21.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO SQUELCH ADJUSTED.'.

**02.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DAMP SAND REPLACED AND OK.'.

**02.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - DRAUGHTS AND RAIN WATER LEAKS IN CAB PLUGGED.'.

**06.06.1992** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE NEGATIVE WIRE ON CONTROL TERMINAL STRIP CAUSING EARTH FAULT. REPAIRED & OK.'.

**09.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - REPLACED BROKEN WINDOWS CAUSED BY VANDALS.'.

**13.06.1992** Service defect: 'TS - TRACTION MOTOR - NUMBER 3 TRACTION MOTOR REPLACED DUE TO LOW MEGGER READINGS.'.

**13.06.1992** Service defect: 'TS - TRACTION MOTOR LOOSE

PINION - NUMBER 4 TRACTION MOTOR REPLACED DUE TO LOOSE PINION.'.

**03.07.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - LEAKING BRAKE VALVE GASKET REPLACED.'.

**13.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOOSE HOTPLATE REPAIRED.'.

**17.07.1992** Service defect: 'UN - STARTER MOTOR - ENGINE A SIDE STARTING MOTOR REPLACED.'.

**30.07.1992** Service defect: 'TW - STARTER MOTOR - B SIDE STARTER MOTOR REPLACED.'.

**14.08.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP.'.

**14.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE.'.

**04.09.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**08.09.1992** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES RECHARGED.'.

**08.09.1992** Service defect: 'TS - STARTER MOTOR - A SIDE (ENGINE) STARTER MOTOR REPLACED.'.

**01.10.1992** Service defect: 'B - COOLING SYSTEM RADIATOR - A SIDE RADIATOR BANK TIGHTENED UP.'.

**01.10.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 6 B BANK HEAD GASKET REPLACED. * C SERVICE WAS ACCIDENTALY DONE ON THIS LOCO IT WAS DUE B.*'.

**01.10.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.

**01.10.1992** Service defect: 'B - FUEL SYSTEM PUMP - STUD ON NUMBER 3 FUEL PUMP B BANK REPLACED.'.

**01.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FIREMANS SIDE WINDSCREEN WIPER TIGHTENED.'.

**01.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED AND 1 SAND HOSE REPLACED.'.

**01.10.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.

**01.10.1992** Service defect: 'B - NO FAULT FOUND - NO ELECTRICAL SERVICE SHEET RECEIVED AT THIS TIME.'.

**21.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MARKER LAMP REPLACED.'.

**21.10.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK IN FLANGE TO OIL FILTERS REPAIRED.'.

**30.10.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR ADJUSTED.'.

**30.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**30.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**30.10.1992** Service defect: 'UN - NO FAULT FOUND - WOULD NOT COUPLE TO ZB4. NO FAULT FOUND.'.

**03.11.1992** Service defect: 'UN - WHEELSLIP - WHEEL SLIP RESISTOR NUMBER 3 REPLACED.'.

**24.11.1992** Service defect: 'TW - ELECTRICAL MISC. AC/DC RELAYS - RF7 RELAY REPLACED.'.

**01.12.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FRONT WHEEL FLANGE SOLENOID REPLACED.'.

**03.12.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - STALL CURRENT ADJUSTED.'.

**08.12.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ELECTRICIANS REPAIRED SUPPLY AIR LEAK TO DYNAMIC BRAKE SECTION.'.

**08.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BENT BRAKE HANGER REPAIRED.'.

**19.12.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - COMPLETE RECONDITIONED TURBOCHARGER FITTED.'.

**27.01.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC6 CONTACTS REPLACED.'.

**27.01.1993** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - REAR HEADLIGHT REPLACED.'.

**27.01.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**27.01.1993** Service defect: 'B - EXHAUST - EXHAUST BELLOWS REPLACED.'.

**27.01.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND BRAKES ADJUSTED.'.

**09.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**09.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**09.02.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AS NOT SHUTTING DOWN. CHECKED AND NO FAULT FOUND.'.

**09.03.1993** Service defect: 'TS - LUBRICATING SYSTEM - ENGINE OIL TOPPED UP.'.

**20.03.1993** Service defect: 'UN - NO FAULT FOUND - WHEEL SLIP FAULT REPORTED. TESTED AND NO FAULT FOUND.'.

**24.03.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MC1 REPLACED.'.

**26.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**26.03.1993** Service defect: 'UN - NO FAULT FOUND - CHECK FOR DAMAGE FOLLOWING YARD DERAILMENT. NO DAMAGE FOUND.'.

**30.03.1993** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - WHEEL SLIP ALARM MADE OPERATIONAL.'.

**30.03.1993** Service defect: 'TS - STARTER MOTOR - 2 STARTER MOTORS REPLACED.'.

**02.04.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT STRIP GAUGE LIGHTS REPLACED.'.

**16.04.1993** Service defect: 'TW - BATTERY MAINTENANCE - BATTERY ELECTROLYTE TOPPED UP.'.

**16.04.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - ENGINE RUN SOLENOID MODIFICATION CARRIED OUT.'.

**16.04.1993** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL TOPPED UP.'.

**16.04.1993** Service defect: 'TW - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.'.

**30.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DOOR DRAUGHTS REPAIRED.'.

**06.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**08.05.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**17.05.1993** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - LOCATION OF FAULT WHICH

CAUSED STOPPAGE. THOUGHT TO BE EARTH FAULT. WILL NOW BOOK LOCO INTO SHOP FOR B SERVICE.'.

**17.05.1993** Service defect: 'TS - GENERAL - FOLLOWING TRACK STOPPAGE LOCOMOTIVE WAS STEAM CLEANED ON SATURDAY READY TO ENTER SHOP TODAY FOR B SERVICE AND'.

**19.05.1993** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - REAR FUEL PRIMING SWITCH REPLACED.'.

**19.05.1993** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED.'.

**19.05.1993** Service defect: 'B - FUEL SYSTEM PUMP - NUMBER 5 AND 6 FUEL PUMP WASHERS REPLACED ON B BANK.'.

**19.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE NOZZLE REPLACED.'.

**19.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SANDER HOSE REPLACED.'.

**19.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED.'.

**01.06.1993** Service defect: 'UN - BOGIE - CRACKED CRATER BOX REPAIRED.'.

**01.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPLACED.'.

**01.06.1993** Service defect: 'UN - NO FAULT FOUND - OIL ON LOCOMOTIVE THOUGHT TO BE FROM ANOTHER LOCO AS NO LEAKFOUND. OIL CLEANED OFF.'.

**19.06.1993** Service defect: 'UN - NO FAULT FOUND - IN FOR CHECK.'.

**ZB 12**

Details: locomotive 'ZB 12 K' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $234630
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L34
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2361
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 03.10.1996 | | |
| Last Lift: | 13.09.1985 | | |
| A Service Mileage: | 590315 KM | A Service Date: | 10.04.1996 |
| B Service Mileage: | 615850 KM | B Service Date: | 18.07.1996 |
| C Service Mileage: | 576091 KM | C Service Date: | 31.01.1996 |
| F Service Mileage: | 0 KM | A Service Date: | 13.09.1985 |
| US Service Mileage: | 624031 KM | A Service Date: | 03.10.1996 |

**04.07.1989** Service defect: 'UN - FUEL SYSTEM LINES - LEAK REPAIRED.'.

**04.07.1989** Service defect: 'UN - TRACTION MOTOR - (1) BELLOW RENEWED.'.

**18.07.1989** Service defect: 'TW - ELECTRICAL MAINTENANCE - REVERSER - REVERSER REPAIRED.'.

**18.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - STARTING CONTACTS MODIFIED.'.

**18.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**18.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ. & IDEPENDENT BRAKE CHECKED 'OK'.'.

**18.07.1989** Service defect: 'TW - OTHER BODY REPAIRS - DOOR REPAIRED.'.

**25.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATERS REPAIRED.'.

**25.07.1989** Service defect: 'UN - NO FAULT FOUND - BOOST WARNING & W/SLIP TESTED 'OK'.'.

**31.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBRICATORS.'.

**21.08.1989** Service defect: 'TW - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES).'.

**21.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (4) LAMPS REPL.'.

**21.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**20.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,LUBE NOZZLE ALIGNED TO WHEEL,NO.5 AXLE BOX PLATES WELDED'.

**20.05.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - HOT PLATE WIRING REPAIRED,DROPPING RESISTOR IN ALARM CIRCIUTREPLACED,7 GLOBES REPLACED.'.

**20.05.1991** Service defect: 'B - ENGINE - NO.3 [A| EXHAUST TAPPET ADJUSTED'.

**20.05.1991** Service defect: 'B - ENGINE WATER LEAK - WATER LEAKS REPAIRED'.

**20.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT - T/M BELLOW CHANGED,T/M BELLOW DUCT TIGHTENED TO T/MOTOR'.

**20.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - COUPLING PLATE BOLTS TIGHTENED'.

**20.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.

**20.05.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**20.05.1991** Service defect: 'B - RADIO REPAIR - RADIO REPLACED'.

**21.05.1991** Service defect: 'UN - FUEL SYSTEM - LOCO ISSUED WITH LEAK IN FUEL TANK NOT REPAIRED.'.

**24.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO REGULATOR REPLACED DUE TO BURNT OUT RESISTORS'.

**29.05.1991** Service defect: 'UN - FUEL SYSTEM - LEAK IN FUEL TANK REPAIRED'.

**29.05.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 230618KM.'.

**12.06.1991** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED A/C FLUCTUATING AMPS,LOCO CHECKED O.K.'.

**14.06.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED'.

**14.06.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - S.W.R.2. CONTACTS REPAIRED'.

**14.06.1991** Service defect: 'UN - RADIO REPAIR - STATIC RADIO REPLACED'.

**18.06.1991** Service defect: 'TW - GENERAL - **** A SERVICE

**** SPEEDO ON LOCO READ 234213KM.'.

**20.06.1991** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR ADJUSTED'.

**20.06.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - THROTTLE AIR PRESSURE ADJUSTED'.

**21.06.1991** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE WORKABLE'.

**21.06.1991** Service defect: 'TS - OTHER BODY REPAIRS - COW CATCHER REPAIRED'.

**26.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN BRAKE PIPE REPLACED,3 BRAKE BLOCKS REPLACED'.

**29.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HAND BRAKE REPAIRED'.

**06.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - FUEL FILLER REPAIRED'.

**10.07.1991** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - T.D.R.1 REPAIRED A/C LOCO REVING IN NEUTRAL'.

**10.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - JUMPER REPLACED A/C FAULT HORN SOUNDING'.

**24.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.

**24.07.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED'.

**24.07.1991** Service defect: 'TW - NO FAULT FOUND - PANEL LIGHTS & HOTPLATE TESTED OK.'.

**07.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**09.08.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - DRIVERS SIDE HEATER SWITCH REPLACED'.

**14.08.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - 2 HIGH WATER TEMPERATURE SWITCHES REPLACED'.

**27.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.

**21.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.

**25.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.

**25.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL LEAK BELOW GOVERNOR REPAIRED'.

**05.11.1991** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - D/S HEATER SWITCH REPLACED'.

**05.11.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.

**07.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE COCK REPLACED'.

**07.11.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH SPEEDO TAPE'.

**08.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CLOCK REPAIRED'.

**13.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED'.

**20.11.1991** Service defect: 'UN - NO FAULT FOUND - SEAT & WIPERS CHECKED OK.'.

**26.11.1991** Service defect: 'UN - NO FAULT FOUND - LOCO AMPS TESTED OK.'.

**13.04.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - SHARP WHEELS CHANGED.'.

**15.04.1992** Service defect: 'UN - 0'.

**07.05.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - SYMPTOM-LOW AMPS,NO FAULT FOUND.'.

**11.05.1992** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - NO FAULT FOUND.'.

**13.05.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - WSR1 AND WSR3 WHEEL SLIP RELAYS REPLACED.'.

**15.05.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAULT REPORTED APPEARED TO OCCUR WHEN THIS LOCO WAS COUPLED TO ZB1. NO FAULT WAS LOCATED.'.

**15.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - LEAK AROUND WINDOW REPAIRED.'.

**15.05.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY OVER VOLTAGE.'.

**11.07.1992** Service defect: 'UN - GENERAL - BODYWORK PAINTED IN NEW AN TASRAIL COLOURS.'.

**11.07.1992** Service defect: 'UN - STARTER MOTOR - A BANK STARTER MOTOR CHANGED.'.

**20.07.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED FIELD DIVERSION FAULT. COULD NOT FAULT, TAKEN FOR TEST RUN AND OK.'.

**20.07.1992** Service defect: 'UN - STARTER MOTOR - A SIDE STARTER MOTOR CHANGED.'.

**22.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FAULT WITH NUMERAL AND HEADLIGHT COMING ON TOGETHER REPAIRED'.

**22.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - ONE SANDPIPE STRAIGHTENED AND WELDED.'.

**22.07.1992** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT REPAIRED. NO MORE INFORMATION ON FAULT AT THIS TIME.'.

**24.07.1992** Service defect: 'TW - COOLING SYSTEM OVERHEATING - HEADER TANK REMOVED AND REPLACED WITH TANK FROM ZB16. COOLING FAN HOUSING REPAIRED.'.

**24.07.1992** Service defect: 'TW - NO FAULT FOUND - TRACTION MOTOR EARTH FAULTS SUSPECTED. TRACTION MOTORS MEGGERED AND FOUND TO BE OK.'.

**29.07.1992** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR STALL CURRENT ADJUSTED.'.

**04.08.1992** Service defect: 'UN - BOGIE REPAIRS - ACCIDENT - DERAILMENT DAMAGE TO NUMBER 5 & 6 CRATER BOXES. BOTH CRATER BOXES REPLACED.'.

**06.08.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED NO POWER. NO FAULT FOUND.'.

**17.08.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHTS MADE WORKABLE.'.

**17.08.1992** Service defect: 'UN - TRACTION MOTOR - NUMBER 2 TRACTION MOTOR CHANGED.'.

**27.08.1992** Service defect: 'UN - COOLING SYSTEM - LEAKING HEADER TANK REPAIRED.'.

**27.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MARKER LIGHTS REPLACED.'.

**27.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FOOTREST IN CAB REPLACED.'.

**16.09.1992** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.
**16.09.1992** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - REAR HEADLIGHT AND MARKER LIGHTS REWIRED.'.
**16.09.1992** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CONTROL EARTHS REMOVED.'.
**24.09.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.09.1992** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - TRACK STOPPAGE ON TRAIN 2108 WITH LOCO SLIPPING COULD HAVE BEEN SAND TROUBLE. SWR 3 WAS FOUND TO BE FAULTY AND REPLACED'.
**30.09.1992** Service defect: 'TS - NO FAULT FOUND - LOAD REGULATOR FAILURE ALSO REPORTED ON TRAIN 2108. NO FAULTWAS FOUND AND THE LOCO WILL HAVE A TEST RUN ON 1/10/92.'.
**22.10.1992** Service defect: 'UN - AUXILLARY MACHINES - AUXILIARY GENERATOR REPLACED. LOAD TANK TESTED AND OK.'.
**31.10.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED RECTIFIER RELAY FAULT. NO FAULT FOUND.'.
**19.11.1992** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - WHEEL DISTANCE CHECKED WITH TRAMMEL AND FOUND TO BE TIGHT BY0.25 INCHES. SUPERVISOR LET GO AS WHEEL FLANGES WERE WORN.'.
**19.11.1992** Service defect: 'C - COOLING SYSTEM - WATER PIPE ABOVE RADIATOR REPAIRED.'.
**19.11.1992** Service defect: 'C - ENGINE PISTON - PLUG REPLACED IN PISTON NUMBER 2 B BANK.'.
**19.11.1992** Service defect: 'C - FUEL SYSTEM LINES - 4 BANJO WASHERS REPLACED.'.
**19.11.1992** Service defect: 'C - MECHANICAL EQUIPMENT - FLANGE LUBRICATOR PIPE REPLACED.'.
**19.11.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED.'.
**19.11.1992** Service defect: 'C - NO FAULT FOUND - ELECTRICAL SERVICE SHEET REPORTED NO OTHER ATTENTION OR PARTS REQUIRED.'.
**19.11.1992** Service defect: 'C - NO FAULT FOUND - ULTRASOUND INSPECTION PERFORMED ON AXLES.'.
**09.12.1992** Service defect: 'UN - TRACTION MOTOR LOOSE PINION - NUMBER 6 TRACTION MOTOR REPLACED DUE TO LOOSE PINION.'.
**11.12.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.
**20.01.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - VIGILANCE ALARM REPAIRED.'.
**04.02.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - RECTIFIER RELAY CONTACTS CLEANED.'.
**05.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PRESSURE ADJUSTED.'.
**05.02.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DOOR SEALS RENEWED.'.
**20.02.1993** Service defect: 'UN - NO FAULT FOUND - VIGILANCE FAULT ON ZB4 WHEN COUPLED TO THIS LOCO. NO FAULT ON THIS LOCO.'.
**11.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.
**23.03.1993** Service defect: 'TW - ENGINE WATER LEAK - WATER LEAKS REPAIRED.'.
**23.03.1993** Service defect: 'TW - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.
**31.03.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED TRACTION MOTOR EARTHS. CHECKED AND TEST RUN. NO FAULT FOUND.'.
**05.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED WHEELSLIP AND EARTH FAULTS. CHECKED AND NO FAULT FOUND.'.
**06.04.1993** Service defect: 'B - ENGINE CYLINDER HEADS - 1A HEAD RELIEF VALVE TIGHTENED.'.
**06.04.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**06.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE PIPE REPAIRED.'.
**06.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND HOSE REPLACED. REAR TRACTION MOTOR BLOWER BELT TIGHTENED.'.
**06.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND BRAKES ADJUSTED.'.
**13.04.1993** Service defect: 'TS - NO FAULT FOUND - REPORTED TRACK STOPPAGE DUE TO PC2 NOT WORKING AND LOCO THENSHUTTING DOWN. CHECKED AND TEST RUN BUT NO FAULT FOUND.'.
**13.04.1993** Service defect: 'TS - RADIO REPAIR - PHONE REPAIRED.'.
**16.04.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - MAIN RESERVOIR PRESSURE SWITCH REPLACED.'.
**16.04.1993** Service defect: 'UN - NO FAULT FOUND - TRACK STOPPAGE EARLIER THIS WEEK. WHEN CHECKED NO FAULT WAS FOUND. ON LATER EXAMINATION FAULT MENTIONED BELOW WAS FOUND.'.
**22.04.1993** Service defect: 'UN - NO FAULT FOUND - RADIO AND PHONE TESTED AND OK.'.
**22.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - LEAKING CAB WINDOW SEALED.'.
**24.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED BOOST FAILURE WHEN COUPLED TO ZB13. COUPLED TO ZB13AND CHECKED. NO FAULT FOUND'.
**11.05.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - 1 FLUORESCENT RIBBON REPLACED IN GAUGE.'.
**11.05.1993** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPLACED.'.
**11.05.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED DYNAMIC BRAKE FAULT. CHECKED AND NO FAULT FOUND.'.
**20.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED ALARM SOUNDING AT FULL THROTTLE. CHECKED AND NO FAULT FOUND.'.
**16.06.1993** Service defect: 'TW - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**25.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**05.07.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED. TEST RUN AND OK.'.
**15.07.1993** Service defect: 'B - COOLING SYSTEM RADIATOR - 5 RADIATORS REPLACED.'.
**15.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 1 DRAIN HOSE REPLACED. 1 FLANGE LUBE BOX AND 1

HOSE REPLACED'.
**15.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED.'.
**15.07.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**20.07.1993** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - REWIRED WATER TEMP SWITCH #3.'.
**20.07.1993** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED #1 & #6 WATER TEMP SWITCHES.'.
**20.07.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**20.07.1993** Service defect: 'TS - GENERAL - OIL WASHED OFF BODY.'.
**31.07.1993** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - TWO SANDERS CLEARED. TRACK STOPPAGE REPORTED SLIPPING. THIS FAULT DID NOT SEEM SUFFICIENT TO CAUSE PROBLEM.'.
**11.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - 1 TRACTION MOTOR BELLOWS REPLACED.'.
**11.08.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED ROUGH RIDING. CHECKED AND NO FAULT FOUND.'.
**11.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW LEAKS REPAIRED.'.
**14.08.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRE REPLACED TO WHEEL SLIP RESISTANCE.'.
**14.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**27.08.1993** Service defect: 'TW - TRACTION MOTOR - NUMBER 1 AND 6 TRACTION MOTORS REPLACED.'.
**18.10.1993** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - 2 AXLE PADS REPLACED.'.
**09.02.1994** Service defect: 'TW - BOGIE - BOLT REPLACED IN AXLE BEARING BOX.'.
**09.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**16.02.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**17.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**17.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT. BRAKE PIPE COCK REPAIRED.'.
**17.02.1994** Service defect: 'UN - RADIO REPAIR - PHONE REPAIRED.'.
**25.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD ADJUSTED.'.
**25.02.1994** Service defect: 'UN - RADIO REPAIR - RADIO FAULT REPAIRED.'.
**08.03.1994** Service defect: 'TW - BOGIE - 1 CRATER BOX REPAIRED.'.
**08.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**15.03.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED AS NOT AMPING. CHECKED BY R. BIRD BUT COULD NOT BE FAULTED.'.
**16.05.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MC RELAYS REPLACED WITH RECONDITIONED UNITS.**********'.
**16.05.1994** Service defect: 'UN - STARTER MOTOR - BOTH BOSCH STARTER MOTORS REPLACED WITH RECONDITIONED UNITS.**********'.
**17.05.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED. 1 FLANGE LUBE PIPE REPLACED.'.
**17.05.1994** Service defect: 'B - TRACTION MOTOR - TRACTION MOTOR V RINGS PAINTED AND INSULATORS CLEANED. 16 TRACTION MOTOR BRUSHES REPLACED.'.
**28.05.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NUMBER 5 WHEELSET CHANGED DUE TO CRACKED AXLE.**********'.
**28.05.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED REVERSER FAULT CHECKED. COULD NOT BE FAULTED.'.
**16.06.1994** Service defect: 'UN - TRACTION MOTOR - NUMBER 5 TRACTION MOTOR REPLACED.**********'.
**30.06.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - VB7 WIRE REPLACED.'.
**30.06.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR FUSE REPLACED.'.
**30.06.1994** Service defect: 'UN - VIGILANCE - POWER KNOCKOUT SWITCH REPLACED ON VIGILANCE.'.
**21.07.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - EXTENSIVE BURNT WIRING TO ENGINE BOX REPLACED.'.
**28.07.1994** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.********** BATTERIES CHARGED.'.
**11.08.1994** Service defect: 'UN - STARTER MOTOR - DRIVERS SIDE STARTER MOTOR REPLACED.**********'.
**11.08.1994** Service defect: 'UN - TRACTION MOTOR - NUMBER 1 AND 6 TRACTION MOTORS REPLACED.**********'.
**29.08.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - REPORTED BRAKE NOISE CHECKED OUT AT QUICK FIX.'.
**31.01.1996** Service defect: 'C - ENGINE - ENGINE OIL FILTERS FOUND TO BE COLLAPSED WHEN REMOVED.'.

**ZB 13**

Details: locomotive 'ZB 13 T' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $118560
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** Q 39M

**Date Built:** 01.01.1975
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2370
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Last Lift: | 12.03.1984 | | |
| SW Service Mileage: | 921346 KM | SW Service Date: | 09.08.1991 |
| A Service Mileage: | 579178 KM | A Service Date: | 28.09.1994 |
| B Service Mileage: | 726705 KM | B Service Date: | 17.08.1996 |
| C Service Mileage: | 520877 KM | C Service Date: | 16.07.1993 |
| F Service Mileage: | 0 KM | A Service Date: | 12.03.1984 |
| US Service Mileage: | 733970 KM | A Service Date: | 16.05.1996 |

**04.07.1989** Service defect: ‘B - DYNAMIC BRAKE - FUSE RENEWED.’.
**04.07.1989** Service defect: ‘B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - CHECKED & CLEANED.’.
**04.07.1989** Service defect: ‘B - ELECTRICAL MISC. MODULES - POTENTIOMETER COVER RENEWED.’.
**04.07.1989** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.’.
**04.07.1989** Service defect: ‘B - ENGINE WATER LEAK - LEAK ON WATER RAIL REPAIRED.’.
**04.07.1989** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**04.07.1989** Service defect: ‘B - RADIO REPAIR - RADIO GLOBE REPL. & RADIO NO.35517 INSTALLED.’.
**04.07.1989** Service defect: ‘B - TRACTION MOTOR - COVER RENEWED.’.
**12.07.1989** Service defect: ‘UN - BROKEN PIPE - AIR PIPE REPAIRED.’.
**26.07.1989** Service defect: ‘UN - FUEL SYSTEM LINES - HIGH PRESSURE PIPE RENEWED.(LEAKING)’.
**26.07.1989** Service defect: ‘UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED.’.
**26.07.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**31.07.1989** Service defect: ‘TW - BOGIE - REPAIRED F/LUBRICATORS.’.
**31.07.1989** Service defect: ‘TW - COOLING SYSTEM - WATER CHANGE.’.
**31.07.1989** Service defect: ‘TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.’.
**31.07.1989** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**07.08.1989** Service defect: ‘UN - NO FAULT FOUND - CHECKED ELECT.‘OK’.’.
**10.10.1989** Service defect: ‘C - BOGIE MAINTENANCE - WHEELS - ALLL AXLES TESTED.’.
**10.10.1989** Service defect: ‘C - ENGINE WATER LEAK - WATER LEAK ON WATER RAIL REPAIRED.’.
**10.10.1989** Service defect: ‘C - FUEL SYSTEM PUMP - NO.2 ‘B‘BANK F/PUMP WASHER REPL.’.
**11.10.1989** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - FIRE ALARM RELAY REPAIRED.’.
**19.10.1989** Service defect: ‘UN - RADIO REPAIR - RADIO REPL.’.
**26.10.1989** Service defect: ‘UN - ELECTRICAL MISC. AC/DC RELAYS - MCCS 4 RELAY REPAIRED.’.
**30.10.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - SOUND WARNING - REPAIRED WHISTLE.’.
**30.10.1989** Service defect: ‘UN - OTHER BODY REPAIRS - CAB DOOR REPAIRED.’.
**16.11.1989** Service defect: ‘UN - GENERAL - CLEANED F/PLATE OF OIL.’.
**16.11.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**13.03.1990** Service defect: ‘B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - E/C/CLUTCH CLEANED..’.
**13.03.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (6)GLOBES REPL.& STEP LIGHT SOCKET SECURED.’.
**13.03.1990** Service defect: ‘B - ENGINE CYLINDER HEADS - NO.3 ‘A‘BANK & NO.4 ‘B‘BANK H/GASKETS RENEWED.’.
**13.03.1990** Service defect: ‘B - GENERAL - *LOCO BOOKED OUT ON 08-02-90.SPEEDO READ 238998K/M.’.
**13.03.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - (10)BRUSHES REPL.’.
**18.05.1990** Service defect: ‘B - ELECTRICAL MISC. AC/DC RELAYS - S.W.R.2.RELAY REPAIRED.’.
**18.05.1990** Service defect: ‘B - ELECTRICAL MISC. HEADLIGHT - F/HEADLIGHT SECURED.’.
**18.05.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.’.
**18.05.1990** Service defect: ‘B - ENGINE WATER LEAK - TIGHTENED W/RAIL ‘A‘BANK.’.
**18.05.1990** Service defect: ‘B - FUEL SYSTEM PUMP - NO.2 ‘B‘BANK F/PUMP WASHER TIGHTENED.’.
**18.05.1990** Service defect: ‘B - GENERAL - *SPEEDO ON LOCO READ 259953K/M.’.
**18.05.1990** Service defect: ‘B - MECHANICAL EQUIPMENT SANDING GEAR - (2)SAND HOSES REPL.’.
**18.05.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL.& ADJ.’.
**18.05.1990** Service defect: ‘B - TRACTION MOTOR - BELLOW REPL.’.
**18.05.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.’.
**12.09.1990** Service defect: ‘B - BOGIE MAINTENANCE - WHEELS - F/LUBE NOZZLE REPL.’.
**12.09.1990** Service defect: ‘B - ENGINE WATER LEAK - WATER LEAK ABOVE T/BLOWER REPAIRED.’.
**12.09.1990** Service defect: ‘B - FUEL SYSTEM PUMP - NO.4 ‘A‘BANK F/PUMP REPL.’.
**12.09.1990** Service defect: ‘B - GENERAL - *SPEEDO ON LOCO READ 272733K/M.’.
**12.09.1990** Service defect: ‘B - MECHANICAL EQUIPMENT - FRONT THROTTLE HOSE REPL.F/SIDE W/WIPER REPAIRED.’.
**12.09.1990** Service defect: ‘B - MECHANICAL EQUIPMENT SANDING GEAR - (2)REAR SAND PIPES REPL.’.
**12.09.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**09.01.1991** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - 3 INSTRUMENT LAMPS REPLACED’.
**09.01.1991** Service defect: ‘B - ENGINE WATER LEAK - WATER RAIL HOSES TIGHTENED’.
**09.01.1991** Service defect: ‘B - GENERAL - *SPEEDO ON LOCO READ 296423K/M.’.
**09.01.1991** Service defect: ‘B - LUBRICATING SYSTEM - 1 OIL PIPE RENEWED (B) BANK’.
**09.01.1991** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED’.
**09.01.1991** Service defect: ‘B - TRACTION MOTOR BRUSHES - 10 T/M BRUSHES REPLACED’.

**15.04.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 3 LAMPS REPLACED,REAR FLANGE LUBE SOLONOID REPLACED'.
**15.04.1991** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 310134 K/M.'.
**15.04.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 1 MAGNANEZE PLATE WELDED'.
**15.04.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE RENEWED,SANDERS CLEARED'.
**15.04.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**15.04.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 10 T/M BRUSHES REPLACED'.
**23.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BROKEN WIRE IN VIG.BOX CAUSING LOST FEED TO VIG.CONTROL REPAIRED & VIG.TESTED O.K.'.
**23.05.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED'.
**23.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**03.06.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - NO FAULT FOUND WITH LOAD REGULATOR'.
**03.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 317780KM.'.
**05.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO & CAB LAMPS REPLACED'.
**07.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO LIGHT REPLACED'.
**07.06.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER PIPE SEAL REPLACED'.
**07.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 319306KM.'.
**19.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SPEEDO LIGHT GLOBE REPLACED'.
**19.06.1991** Service defect: 'TS - FUEL SYSTEM - FUEL FILLER REPLACED'.
**19.06.1991** Service defect: 'TS - OTHER BODY REPAIRS - OIL CLEANED OFF FOOT PLATE'.
**21.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - SPEEDO LIGHT GLOBE REPLACED & DROPPING RESISTOR REPLACED'.
**21.06.1991** Service defect: 'TS - GENERAL - SPEEDO ON LOCO READ 323072KM.'.
**27.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - 2 MANGANESE PLATES REPLACED'.
**27.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - 4 SAND PIPES REPLACED'.
**03.07.1991** Service defect: 'TS - NO FAULT FOUND - LOCO TESTED OK.,NO FAULT FOUND'.
**06.07.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK,NO FAULT FOUND WITH BELLS RINGING'.
**10.07.1991** Service defect: 'TS - FUEL SYSTEM LINES - NO.6 'B' BANK H.P. PIPE REPAIRED'.
**10.07.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**12.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - TRACTION MOTORS TESTED OK,HOT PLATE REPAIRED'.
**12.07.1991** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**12.07.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**12.07.1991** Service defect: 'TS - OTHER BODY REPAIRS - LEAKING FRONT WINDOW RESEALED'.
**17.07.1991** Service defect: 'TW - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**17.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**17.07.1991** Service defect: 'TW - LUBRICATING SYSTEM - OIL LEAK REPAIRED'.
**20.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH NO.1 & NO.6 TRACTION MOTORS'.
**09.08.1991** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR DOOR SWITCH ADJUSTED'.
**09.08.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - FAULT ALARM ADJUSTED,TRACTION MOTOR CABLES TIED BACK 5 GLOBES REPLACED'.
**09.08.1991** Service defect: 'SW - FUEL SYSTEM PUMP - NO.2 & NO.3 FUEL PUMP WASHERS REPLACED ON 'A' BANK'.
**09.08.1991** Service defect: 'SW - GENERAL - ***** C SERVICE COMPLETED *****'.
**09.08.1991** Service defect: 'SW - MECHANICAL EQUIPMENT - 1 TRACTION MOTOR STRAP REPLACED'.
**09.08.1991** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND PIPES RENEWED'.
**09.08.1991** Service defect: 'SW - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED'.
**09.08.1991** Service defect: 'SW - TRACTION MOTOR BRUSHES - 16 TRACTION MOTOR BRUSHES REPLACED'.
**12.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED'.
**22.08.1991** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CONTROL EARTHS CLEARED,WATER TEMPERATURE SWITCH NO. 1 REPLACED'.
**29.08.1991** Service defect: 'TS - NO FAULT FOUND - NO FAULT FOUND WITH MAIN CIRCIUT BREAKER'.
**30.08.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 332029KM.'.
**30.08.1991** Service defect: 'UN - NO FAULT FOUND - ENGINE STARTED OK.'.
**30.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - LEAKS IN CAB ROOF SEALED'.
**02.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - WATER CLEARED OUT OF BRAKE VALVES'.
**06.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**06.09.1991** Service defect: 'TW - WHEELSLIP - WHEELSLIP TESTED OK.'.
**18.09.1991** Service defect: 'TS - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**18.09.1991** Service defect: 'TS - OTHER BODY REPAIRS - COWCATCHER STRAIGHTENED'.
**20.09.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH LOCO AMPS'.
**28.09.1991** Service defect: 'TS - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.

**02.10.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - MICRO SWITCH ON C.B.R.1 REPLACED'.
**03.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BBRAKES ADJUSTED'.
**03.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - F/S DOOR REPAIRED'.
**05.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED'.
**09.10.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - FAULTY REAR JUMPER SOCKET REPAIRED'.
**09.10.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETE **'.
**19.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - NO.4 T/M BELLOWS REPLACED'.
**19.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**26.10.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL EARTHS TRACED & CLEARED'.
**26.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL LEAK REPAIRED'.
**26.11.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - 3 WHEEL SETS REPLACED'.
**06.03.1992** Service defect: 'TW - 0'.
**28.05.1992** Service defect: 'UN - AUXILLARY MACHINES -
**01.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDOMETER JUMPING. AXLE TRANSMITTER REPLACED.'.
**02.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTOMATIC BRAKE HEAD REPLACED.'.
**22.04.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - SR1 COIL CAUGHT FIRE. SR1 REPLACED.'.
**14.05.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - NUMERAL LIGHT WIRING REPAIRED AND EARTHS CLEARED.'.
**24.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**16.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**19.06.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - EFC1 REPAIRED.'.
**16.07.1993** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - NUMBER 5 AND 6 AXLES REPLACED.'.
**16.07.1993** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - TRAILING STRIKING PLATES BUILT UP.'.
**16.07.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 1 SANDER VALVE REPLACED.'.
**16.07.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED.'.
**21.07.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BOOST FAILURE SWITCH ADJUSTED.'.
**31.07.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED DUE TO OVER VOLTAGE.'.
**05.08.1993** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - BOOST SWITCH WIRE REPLACED.'.
**09.08.1993** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPAIRED.'.
**18.08.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - RECCURRENT VOLTAGE REGULATOR PROBLEMS ON THIS LOCO. VOLTAGE REGULATOR REPLACED.'.
**18.08.1993** Service defect: 'UN - STARTER MOTOR - STARTER MOTOR AND OTHER COMPONENTS EXAMINED TO TRY AND FIND CAUSE OF PROBLEMS. TOD CHECKED OUT AND OK.'.
**23.08.1993** Service defect: 'TS - BATTERY MAINTENANCE - FLAT BATTERIES RECHARGED.'.
**23.08.1993** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**31.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIELD DIVERSION FAULT REPAIRED.'.
**31.08.1993** Service defect: 'UN - STARTER MOTOR - 2 BOSCH STARTER MOTORS FITTED OVERHAULED BY ELECTRO REWINDS.**********
**17.09.1993** Service defect: 'UN - NO FAULT FOUND - RUN ON LOAD TANK TO CHECK BOOST. FIELD DIVERSION CHECKED. AS FAR AS KNOWN NO FAULTS WERE FOUND.'.
**06.10.1993** Service defect: 'UN - TRACTION MOTOR - NUMBER 3 TRACTION MOTOR REPLACED.'.
**13.10.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDO AXLE DRIVE UNIT REPLACED.'.
**19.10.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE REPLACED AND VOLTAGE ADJUSTED.'.
**19.10.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE REPLACED.'.
**19.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - HANDBRAKE REPAIRS CARRIED OUT.'.
**03.02.1994** Service defect: 'UN - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.'.
**04.02.1994** Service defect: 'UN - STARTER MOTOR - B BANK STARTER MOTOR PINION REPLACED BY ELECTRO FITTER.'.
**17.02.1994** Service defect: 'TW - MECHANICAL EQUIPMENT - FLANGE LUBE WORK.'.
**17.02.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**17.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BRAKE BLOCKS REPLACED.'.
**17.02.1994** Service defect: 'TW - RADIO REPAIR - PHONE REPAIRED.'.
**01.03.1994** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - OVERLOADS AND MC RELAYS CLEANED.'.
**08.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPEEDOMETER TRANSMITTER REPAIRED.'.
**25.03.1994** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES HAD BOILED OFF QUITE A LOT OF WATER. BATTERIES TOPPED UP.'.
**25.03.1994** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**25.03.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REPAIRED.'.
**25.03.1994** Service defect: 'TW - MECHANICAL

MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**21.04.1994** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - BOTH STARTER MOTOR RELAYS REPLACED.*********'.

**21.04.1994** Service defect: 'UN - STARTER MOTOR - BOTH STARTER MOTORS REPLACED. **********'.

**02.05.1994** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - REPORTED AS OVER SPEED TRIP SHUTTING ENGINE DOWN. CHECKED ATQUICK FIX AND NO FAULT FOUND.'.

**10.05.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC1 REPLACED WITH RECONDITIONED UNIT. MC3 AIR LEAK REPAIRED.'.

**10.05.1994** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - 1LR, PC1,, PC2, AR RELAYS REPLACED. STEP LIGHT LENS REPLACED.'.

**10.05.1994** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOWS REPLACED.'.

**10.05.1994** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - 1 FAN BELT REPLACED.'.

**10.05.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**10.05.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 TRACTION MOTOR BRUSHES REPAIRED. UHF RADIO CONTROLS SECURED.'.

**23.05.1994** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED. CHECKED ON LOAD TANK.'.

**28.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJ'.

**31.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - MAINTAIN-NON MAINTAIN BLANKED OFF.'.

**31.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - JAMMED CAB WINDOW REPAIRED.'.

**22.06.1994** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MC1 REPLACED WITH RECONDITIONED UNIT.**********'.

**22.06.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - VOLTAGE REGULATOR WIRING REPAIRED.'.

**28.07.1994** Service defect: 'UN - OTHER BODY REPAIRS - DERAILMENT DAMAGE REPAIRED. DERAILED AT DON JUNCTION VANDAL INCIDENT.'.

**11.08.1994** Service defect: 'UN - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.********** EARTH IN STEP WIRING REPAIRED.'.

**29.08.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - REPAIRS CARRIED OUT ON #2 & #5 TRACTION MOTORS GEARCASE DUE TO DERAILMENT DAMAGE. TRACTION MOTOR COVER REPLACED.'.

**29.08.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DAMAGED SAND PIPE REPLACED.'.

**99.99.9999** Service defect: 'UN - TRACTION MOT #2 AND 5 ISOLATED'.

**ZB 14**

Details: locomotive 'ZB 14 F' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $278720
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L34
**Date Built:** 01.01.1975
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2371
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 07.09.1996 | | |
| Last Lift: | 02.02.1989 | | |
| SW Service Mileage: | 201525 KM | SW Service Date: | 19.08.1992 |
| A Service Mileage: | 334619 KM | A Service Date: | 20.09.1994 |
| B Service Mileage: | 463424 KM | B Service Date: | 06.08.1996 |
| C Service Mileage: | 290398 KM | C Service Date: | 12.01.1994 |
| F Service Mileage: | 0 KM | A Service Date: | 02.02.1989 |
| US Service Mileage: | 472370 KM | A Service Date: | 07.09.1996 |

**03.07.1989** Service defect: 'TW - BATTERY MAINTENANCE - JUMP START (REPL.BATTERY)'.

**03.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.

**03.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**25.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**25.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PRESSURE ADJ.'.

**16.08.1989** Service defect: 'B - EXHAUST - (3)EXHAUST BELLOWS REPL.'.

**16.08.1989** Service defect: 'B - LUBRICATING SYSTEM OIL COOLER - OIL COOLER ON 'B'SIDE REPL.'.

**16.08.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**24.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.& STEP LIGHT SECURED.'.

**24.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**24.08.1989** Service defect: 'TW - NO FAULT FOUND - HEATER SWITCH TESTED 'OK'.'.

**12.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED & PIPE REPAIRED'.

**12.09.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.

**14.09.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.

**14.09.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.

**10.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (10)LAMPS BLOWN.(NIL IN STORE.)'.

**10.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**20.10.1989** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.

**20.10.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**27.10.1989** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS REPL.’.
**27.10.1989** Service defect: ‘UN - FUEL SYSTEM - REPAIRED FUEL LEAK.’.
**27.10.1989** Service defect: ‘UN - LUBRICATING SYSTEM - REPAIRED CRACKED OIL PIPE.(WELDED)’.
**02.11.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**08.11.1989** Service defect: ‘UN - GENERAL - F/LUBE TANK TO BE CHECKED WHEN NEXT TIME IN SHOP. LOCO NOT SEEN BY ELECT.STAFF.’.
**08.11.1989** Service defect: ‘UN - LUBRICATING SYSTEM - OIL SAMPLE TAKEN.’.
**24.11.1989** Service defect: ‘B - BOGIE - F/LUBE TANK,UNIT & NOZZLE RENEWED.’.
**24.11.1989** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.’.
**24.11.1989** Service defect: ‘B - LUBRICATING SYSTEM - NO.3 ‘B’ BANK H.P. TIGHTENED UP.’.
**24.11.1989** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL. & ADJ.’.
**24.11.1989** Service defect: ‘B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.’.
**29.11.1989** Service defect: ‘UN - ELECTRICAL MISC. HEADLIGHT - WIRING REPAIRED & (2)LAMPS REPL.’.
**29.11.1989** Service defect: ‘UN - FUEL SYSTEM LINES - REPAIRED FUEL LEAK.’.
**29.11.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**07.12.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.& CYLINDER REPL.’.
**13.03.1990** Service defect: ‘TW - GENERAL - *LOCO BOOKED OUT ON 22-12-89.’.
**23.04.1990** Service defect: ‘UN - GENERAL - *LOCO BOOKED OUT ON 20-04-90’.
**18.05.1990** Service defect: ‘UN - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBE.’.
**18.05.1990** Service defect: ‘UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.’.
**18.05.1990** Service defect: ‘UN - GENERAL - ‘A‘SERVICE.’.
**18.05.1990** Service defect: ‘UN - OTHER BODY REPAIRS - FAULTY DOOR LOCK RENEWED.’.
**18.05.1990** Service defect: ‘UN - VIGILANCE - EARTH FAULT FOUND DUE TO FAULTY WIRING.’.
**28.05.1990** Service defect: ‘UN - GENERAL - *LOCO BOOKED OUT ON THE 24-05-1990 AT 1600HRS.’.
**06.06.1990** Service defect: ‘B - BOGIE MAINTENANCE - WHEELS - F/LUBE PIPE REPL.’.
**06.06.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.& FAULT LIGHT REPAIRED ON F/LUBE VALVE.’.
**06.06.1990** Service defect: ‘B - ENGINE WATER LEAK - REPAIRED WATER LEAKS ON ‘A‘BANK WATER RAIL.’.
**10.09.1990** Service defect: ‘B - BOGIE MAINTENANCE - WHEELS - F/LUBE NOZZLE RENEWED.’.
**10.09.1990** Service defect: ‘B - DYNAMIC BRAKE - DOOR TO CUBICLE REPL.’.
**10.09.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.’.
**10.09.1990** Service defect: ‘B - ENGINE WATER LEAK - WATER LEAKS REPAIRED.’.
**10.09.1990** Service defect: ‘B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED & PIPE RESET TO RAIL.’.
**10.09.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**10.09.1990** Service defect: ‘B - RADIO REPAIR - CH.1 INDICATOR LIGHT REPAIRED.’.
**10.09.1990** Service defect: ‘B - TRACTION MOTOR BRUSHES - (5)BRUSHES REPL.’.
**03.01.1991** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - INSTRUMENT LIGHT DIMMER REPAIRED’.
**03.01.1991** Service defect: ‘B - FUEL SYSTEM PUMP - NO.3 [B| BANK FUEL PUMP SCREW TIGHTENED’.
**03.01.1991** Service defect: ‘B - GENERAL - SPEEDO ON LOCO READ 192317KM.’.
**03.01.1991** Service defect: ‘B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE PIPE REPAIRED’.
**03.01.1991** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED’.
**03.01.1991** Service defect: ‘B - TRACTION MOTOR BRUSHES - 2 T/M BRUSHES REPLACED’.
**24.04.1991** Service defect: ‘B - COOLING SYSTEM RADIATOR - RADIATOR ELEMENT RENEWED’.
**24.04.1991** Service defect: ‘B - GENERAL - SPEEDO ON LOCO READ 211095KM.’.
**24.04.1991** Service defect: ‘B - LUBRICATING SYSTEM - OIL PIPE ON [B| BANK REPAIRED’.
**24.04.1991** Service defect: ‘B - MECHANICAL EQUIPMENT - EXHAUST BELLOWS GASKET CHANGED,OIL FILTER ‘O‘RING RENEWED’.
**24.04.1991** Service defect: ‘B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED’.
**24.04.1991** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CYLINDER PIPE ON FRONT BOGIE REPAIRED’.
**21.05.1991** Service defect: ‘TS - TRACTION MOTOR EARTH - EARTH ON LOCO TRACED TO DIRTY DYNAMIC BRAKE RESISTOR INSULATORS, INSULATORS CLEANED & LOCO TESTED O.K.’.
**23.05.1991** Service defect: ‘TW - ELECTRICAL MISC. HEADLIGHT - WIRING & PLUG REPAIRED TO REAR HEADLIGHT’.
**23.05.1991** Service defect: ‘TW - GENERAL - [A SERVICE|’.
**04.06.1991** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - FIELD DIVERSION TESTED O.K.’.
**04.06.1991** Service defect: ‘UN - GENERAL - SPEEDO ON LOCO READ 214811KM.’.
**06.06.1991** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - AMPS TESTED O.K.’.
**06.06.1991** Service defect: ‘UN - GENERAL - SPEEDO ON LOCO READ 215382 KM.’.
**12.06.1991** Service defect: ‘UN - ELECTRICAL MISC - LOAD REGULATOR - LOCO RUN UP ON LOAD TANK & TESTED O.K.’.
**12.06.1991** Service defect: ‘UN - VIGILANCE - SYSTEM SWITCH REPLACED,VIG.TESTED O.K.’.
**25.07.1991** Service defect: ‘UN - ELECTRICAL MISC. TRANSITION - FIELD DIVERSION TESTED OK.’.
**25.07.1991** Service defect: ‘UN - ENGINE GOVERNOR MECHANICAL - 2 GOVERNORS REPLACED’.
**25.07.1991** Service defect: ‘UN - MECHANICAL EQUIPMENT - LOCO TESTED ON LOAD TANK OK.’.
**31.07.1991** Service defect: ‘TS - GENERAL - ***** A SERVICE COMPLETED *****’.
**31.07.1991** Service defect: ‘TS - MECHANICAL EQUIPMENT

SANDING GEAR - SANDS CLEARED & MADE WORKABLE'.
**31.07.1991** Service defect: 'TS - OTHER BODY REPAIRS - FRONT STEPS STRAIGHTENED'.
**03.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS REPAIRED'.
**08.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - COMPRESSOR COMPARTMENT ROOF REPLACED'.
**22.08.1991** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.
**22.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**28.08.1991** Service defect: 'B - AUXILLARY MACHINES - DYNAMIC BRAKE BLOWER COMMUTATOR CLEANED'.
**28.08.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - D.B.7 CONTACTOR REPAIRED,MOTOR CABLE ON M.4 TIGHTENED & CHECKED OK.'.
**28.08.1991** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE ADJUSTED TO 114 VOLTS FROM 122 VOLTS'.
**28.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - POTENTIOMETER COVER REPLACED'.
**28.08.1991** Service defect: 'B - ENGINE - TAPPETS RESET ON 'A' BANK'.
**28.08.1991** Service defect: 'B - FUEL SYSTEM PUMP - NO.2 FUEL PUMP WASHER REPLACED 'A' BANK'.
**28.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED,SAND PIPES REALIGNED TO RAIL'.
**28.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED & ADJUSTED'.
**28.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED'.
**28.08.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED'.
**02.09.1991** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SEAT REPAIRED'.
**03.09.1991** Service defect: 'UN - WHEELSLIP - WHEELSLIP TESTED OK.'.
**10.09.1991** Service defect: 'TS - ENGINE GOVERNOR - GOVERNOR REPLACED & LOCO TESTED ON LOAD TANK OK.'.
**14.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**17.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**20.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**01.10.1991** Service defect: 'TS - NO FAULT FOUND - LOCO TESTED OK. JUMPER FAULT FOUND ON ZC43'.
**04.10.1991** Service defect: 'UN - NO FAULT FOUND - LOCO AMPS TESTED OK'.
**09.10.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - ENGINE PRESSURISING FAN BELT REPLACED'.
**14.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**14.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - SUN VISOR REPAIRED'.
**24.10.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.
**02.11.1991** Service defect: 'UN - NO FAULT FOUND - ENGINE ROOM DOORS CHECKED OK.'.
**14.12.1991** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - RF7 RELAY CONTACTS REPAIRED.'.
**06.05.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PHONE FAULT.'.
**07.05.1992** Service defect: 'UN - WHEELSLIP - EXCESSIVE WHEEL SLIP RECTIFIED BY REPLACING MOTOR CONTACT MC1 FOR TRAC MOTORS #1 & #6.'.
**21.05.1992** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL SET CHANGED.'.
**21.05.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK REPAIRED.'.
**21.05.1992** Service defect: 'UN - RADIO REPAIR - REPAIRED RADIO POWER SUPPLY.'.
**30.05.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS REPORTED.'.
**05.06.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**15.06.1992** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES-JUMP STARTED.'.
**16.06.1992** Service defect: 'UN - NO FAULT FOUND - WATER LEAK REPORTED, NONE FOUND. IT IS THOUGHT THAT THE APPARENT LEAK WAS CAUSED BY AN OVERFULL HEADER TANK.'.
**22.06.1992** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES CHARGED.'.
**22.06.1992** Service defect: 'TS - STARTER MOTOR - BURNED OUT STARTER MOTOR REPLACED ON A SIDE.'.
**23.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN PIPE REPAIRED ON INDEPENDANT BRAKE RELEASE.'.
**29.06.1992** Service defect: 'UN - STARTER MOTOR - BOTH STARTER MOTORS REPLACED WITH REBUILT MOTORS. CRANKING VOLTAGE LOWERED TO 75V.'.
**30.06.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPLACED.'.
**30.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.
**13.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - TRAILING TRACTION MOTOR BLOWER REPLACED.'.
**13.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE SPLINE SHAFT REPLACED.'.
**15.07.1992** Service defect: 'UN - COOLING SYSTEM - WATER RAIL LEAK STOPPED.'.
**15.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - REPORTED WHEELSLIP FAULT THOUGHT TO BE CAUSED BY INOPERATIVESANDERS. SANDERS FREED UP.'.
**15.07.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED TWO ENGINE DOORS CONTINUALLY OPENING WHILE MOVING. AS NO PANEL BEATER AVAILABLE FITTER CHECKED OUT-SEEMED OK.'.
**21.07.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.
**24.07.1992** Service defect: 'TW - OTHER BODY REPAIRS - REPAIRS CARRIED OUT ON ENGINE ROOM DOORS.'.
**28.07.1992** Service defect: 'TW - BOGIE - TWO TOP SUSPENSION BEARING BOLTS TIGHTENED.'.
**19.08.1992** Service defect: 'SW - BOGIE - TRIMOUNTS PACKED.'.
**14.09.1992** Service defect: 'TW - EXHAUST - EXHAUST LEAK.

EXHAUST PLUG REPLACED.'.
**18.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE ROOM ROOF FIX.'.
**18.09.1992** Service defect: 'UN - RADIO REPAIR - PHONE FIX.'.
**01.10.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**01.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT - CRATER BOX BOLT TIGHTENED.'.
**01.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**01.10.1992** Service defect: 'B - NO FAULT FOUND - ELECTRICAL SERVICE SHEET REPORTED NO MAJOR REPAIRS REQUIRED.'.
**20.10.1992** Service defect: 'TW - NO FAULT FOUND - AMP FAULT REPORTED. NO FAULT FOUND.'.
**10.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**10.11.1992** Service defect: 'UN - NO FAULT FOUND - VIGILANCE FAULT REPORTED. NO FAULT FOUND.'.
**01.12.1992** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - CAB LIGHT SWITCH REPLACED.'.
**01.12.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - COMPRESSOR GOVERNOR SWITCH ADJUSTED.'.
**01.12.1992** Service defect: 'TW - OTHER BODY REPAIRS - CAB DOORS REPORTED AS NOT STAYING SHUT. REPAIRS CARRIED OUT.'.
**17.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - AUXILLIARY GENERATOR BELT TIGHTENED.'.
**17.12.1992** Service defect: 'UN - NO FAULT FOUND - TRACTION MOTORS 1 & 6 ISOLATED. CHECKED AND NO FAULT FOUND.'.
**23.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED AS DROPPING AMPS. CHECKED AND TAKEN FOR TRIAL RUN. NO FAULT FOUND.'.
**16.02.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC2 REPLACED. MC1 REPLACED.'.
**16.02.1993** Service defect: 'B - COOLING SYSTEM - COOLING WATER PIPE REPAIRED.'.
**16.02.1993** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - RF8 RESET.'.
**16.02.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REVERSER CONTACTS CLEANED. POTENTIOMETER CLEANED. EDDY CURRENT CLUTCH CLEANED.'.
**16.02.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**16.02.1993** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOWS REPLACED.'.
**16.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - REAR COUPLING REBUSHED. NEW YOKE FITTED.'.
**16.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**16.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**16.02.1993** Service defect: 'B - STARTER MOTOR - 2 REBUILT DELCO REMY STARTER MOTORS FITTED.'.
**09.03.1993** Service defect: 'UN - GENERAL ACCIDENT - COLLISION DAMAGE. HANDRAIL AND BRAKE COCK REPAIRED.'.
**15.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT BRAKE PIPES AND BRAKE COCKS REPLACED.'.
**15.03.1993** Service defect: 'UN - RADIO REPAIR - PHONE REPAIRED.'.
**23.03.1993** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - JUMPER LEAD REPLACED.'.
**23.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS SIDE DOOR HANDRAIL REPAIRED.'.
**25.03.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING TO VIGILANCE AND PANEL LIGHTS REPAIRED.'.
**05.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - VANDALISED CAB WINDOWS REPLACED.'.
**06.04.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - RF7 CONTACTS CLEANED.'.
**27.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED PHONE AND VIGILANCE FAULTS. CHECKED AND NO FAULTS FOUND.'.
**29.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - EP VALVE ADJUSTED.'.
**29.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED VIGILANCE FAULT. CHECKED AND NO FAULT FOUND.'.
**11.05.1993** Service defect: 'TS - NO FAULT FOUND - REPORTED AS THROWING MAIN CIRCUIT BREAKER OUT WHEN COUPLED TO ZB15. CHECKED AND FAULT LOCATED AS EARTH FAULT ON ZB15.'.
**20.05.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION PERFORMED ON ALL AXLES.'.
**20.05.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPAIRED.'.
**20.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 1 WINDSCREEN WIPER BLADE REPLACED.'.
**20.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SANDER VALVES REPLACED. 1 SAND HOSE REPLACED.'.
**20.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED.'.
**20.05.1993** Service defect: 'B - TRACTION MOTOR FLASHOVER - MINOR FLASHOVER ON TRACTION MOTORS REPAIRED.'.
**24.05.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**24.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED VIGILANCE FAULT. CHECKED AND NO FAULT FOUND.'.
**29.05.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT RIBBON MODIFICATION CARRIED OUT ON GAUGES.'.
**29.05.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FLUORESCENT CAB LIGHTS INSTALLED.'.
**05.06.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - REAR HEADLIGHT AND NUMERAL LIGHT WIRING REPLACED.'.
**05.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRS CARRIED OUT ON FLUORESCENT CAB LIGHTS WHICH WERE RECENTLY INSTALLED.'.
**07.06.1993** Service defect: 'UN - EXHAUST - 1 EXHAUST

PLUG REPLACED.'.
**07.06.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED WATER LEAK. CHECKED AND NO FAULT FOUND.'.
**03.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.
**16.07.1993** Service defect: 'TW - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**16.07.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - ELECTRICAL CONNECTIONS IN DRIVERS SPEEDOMETER ADJUSTED.'.
**28.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATERS REPAIRED.'.
**03.08.1993** Service defect: 'TS - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.
**09.08.1993** Service defect: 'UN - NO FAULT FOUND - CHECK.'.
**14.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. CHECK.'.
**25.08.1993** Service defect: 'B - COOLING SYSTEM - OIL COOLER RUBBERS REPLACED.'.
**25.08.1993** Service defect: 'B - ENGINE - 4 FUEL PUMP CAM FOLLOWER O RINGS REPLACED.'.
**25.08.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED. ULTRASOUND INSPECTION CARRIED OUT ON AXLES.'.
**25.08.1993** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOWS REPLACED.'.
**25.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - CENTRE COUPLING KNUCKLE REPLACED.'.
**25.08.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**31.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.09.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NUMBER A5 HEAD GASKET REPLACED.'.
**13.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE REPAIRS CARRIED OUT.'.
**14.09.1993** Service defect: 'TS - NO FAULT FOUND - TRACK STOPPAGE REPORTED DUE TO EARTH FAULT. EARTH LINK HAD BEEN REMOVED. ELECTRICAL FITTER IN HOBART COULD NOT FAULT.'.
**09.12.1993** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN GEARBOX REPLACED DUE TO SEIZURE THROUGH LACK OF OIL.'.
**12.01.1994** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION CARRIED OUT ON AXLES.'.
**12.01.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**31.01.1994** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTOR EARTH CAUSED BY CHAFED CABLE ON NUMBER 3 TRACTION MOTOR. CABLE REPAIRED.'.
**04.02.1994** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**04.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**10.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**10.02.1994** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - FRONT HEADLIGHT REPLACED.'.
**10.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIREMANS SIDE CAB LIGHT REPAIRED.'.
**10.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**12.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.
**12.02.1994** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED.'.
**16.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**08.03.1994** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - DRIVERS SIDE HEATER REPAIRED.'.
**08.03.1994** Service defect: 'TW - MECHANICAL EQUIPMENT - FIREMANS SEAT REPAIRED.'.
**11.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TRAIN PIPE REPLACED. BRAKE HEAD REPLACED.'.
**11.03.1994** Service defect: 'UN - OTHER BODY REPAIRS - HAND RAIL STRAIGHTENED.'.
**17.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DRIVERS HEATER REPAIRED.'.
**17.03.1994** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED.'.
**17.03.1994** Service defect: 'UN - GENERAL - FOOTPLATE CLEANED.'.
**17.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**03.05.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - BROKEN WIRE REPAIRED IN GAUGE LIGHTS.'.
**03.05.1994** Service defect: 'UN - GENERAL - FIRE EXTINGUISHER REPLACED.'.
**05.05.1994** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**18.07.1994** Service defect: 'B - BATTERY MAINTENANCE - ALL BATTERIES WATERED. STEP AND MARKER LIGHTS REPAIRED.'.
**18.07.1994** Service defect: 'B - COOLING SYSTEM - SPLIT HEADER TANK REPAIRED. ALL WATER RAIL JOINTS REPLACED. SPLIT FLANGE LUBE TANK REPAIRED. 2 LUBE NOZZLES REPLACED.'.
**18.07.1994** Service defect: 'B - FUEL SYSTEM PUMP - 2A FUEL PUMP WASHERS REPLACED.'.
**18.07.1994** Service defect: 'B - LUBRICATING SYSTEM - A BANK OIL COOLER O RINGS REPLACED.B BANK COOLER RETENSIONED3 WET SANDBOXES EMPTIED. NUMEROUS WATER LEAKS STOPPED.'.
**18.07.1994** Service defect: 'B - TRACTION MOTOR FLASHOVER - FLASHOVER ON #3 TRACTION MOTOR REPAIRED. CABLE ALSO REPAIREDAND BRACKET REPLACED.'.
**26.07.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WATERED AND CHARGED.'.
**26.07.1994** Service defect: 'UN - OTHER BODY REPAIRS - CAB DOOR REPAIRED.'.
**06.08.1994** Service defect: 'UN - ELECT. MISC. - GAUGES &

INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**22.08.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VIGILANCE POWER KNOCKOUT SWITCH REPAIRED.'.
**29.08.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**29.08.1994** Service defect: 'UN - OTHER BODY REPAIRS - DERAILMENT DAMAGE REPAIRED.'.

### ZB 15

Details: locomotive 'ZB 15 Y' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 16.1m
**Tare Weight:** 91.4tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $111840
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L34
**Date Built:** 01.01.1975
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1750kw
**Remarks:** EX Q.R. 2372
**BSG Code:** LTAU

| | | | |
|---|---|---|---|
| Return to Service Date: | 26.08.1996 | | |
| Last Lift: | 10.04.1985 | | |
| A Service Mileage: | 404551 KM | A Service Date: | 29.09.1994 |
| B Service Mileage: | 534700 KM | B Service Date: | 26.08.1996 |
| C Service Mileage: | 464000 KM | C Service Date: | 11.08.1995 |
| F Service Mileage: | 0 KM | A Service Date: | 10.04.1985 |
| US Service Mileage: | 529462 KM | A Service Date: | 26.07.1996 |

**17.12.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 104205KM.'.
**17.12.1990** Service defect: 'B - MECHANICAL EQUIPMENT - 2 EXHAUST BELLOWS REPLACED'.
**01.05.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 113598KM.'.
**23.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BROKEN COIL WIRE ON B.D.R.2 REPAIRED & FIELD DIVERSION TESTED O.K.'.
**07.06.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER PIPE REPAIRED'.
**07.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**13.06.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - TRACTION MOTOR COVERS REPLACED WHERE NEEDED'.
**13.06.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****,SPEEDO ON LOCO READ 120360KM.'.
**17.06.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - WIRE REPLACED ON LOAD REGULATOR POTENTIOMETR'.
**17.06.1991** Service defect: 'UN - RADIO REPAIR - FAULTY U.H.F.RADIO REPLACED'.
**25.06.1991** Service defect: 'TS - TRACTION MOTOR EARTH - NO.3 & 4 TRACTION MOTORS REPLACED A/C EARTHS'.
**27.06.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED & TESTED OK.'.
**28.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER REPAIRED'.
**09.07.1991** Service defect: 'TS - ENGINE CYLINDER HEADS - NO.3 HEAD 'B' BANK REPLACED'.
**10.07.1991** Service defect: 'TS - ENGINE WATER LEAK - LEAKING WATER PIPE REPAIRED'.
**10.07.1991** Service defect: 'TS - OTHER BODY REPAIRS - COW CATCHER REPLACED'.
**10.07.1991** Service defect: 'TS - RADIO REPAIR - RADIO REPLACED'.
**13.07.1991** Service defect: 'UN - VIGILANCE - COIL WIRE ON VIG.TIMER REPAIRED & TESTED OK.'.
**19.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED & TESTED OK.'.
**23.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH AMPS OR FIELD DIVERSION LOCO TEST RUN TO E.T.J. OK.'.
**23.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**25.07.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - R.F.8.REPLACED'.
**07.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**07.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - WHISTLE CHORD REPLACED'.
**08.08.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP'.
**12.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AMPING & VIGILANCE FAULT TRACED TO BROKEN NEGATIVE IN VIGILANCE BOX,REPAIRED & TESTED OK.'.
**27.08.1991** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.
**27.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**28.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO FUSES REPLACED'.
**29.08.1991** Service defect: 'UN - RADIO REPAIR - U.H.F. RADIO REPLACED'.
**16.09.1991** Service defect: 'B - ENGINE CYLINDER HEADS - NO.4 'B' BANK CYLINDER HEAD REPLACED'.
**16.09.1991** Service defect: 'B - FUEL SYSTEM PUMP - 3 FUEL PUMP WASHERS CHANGED'.
**16.09.1991** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - SPLINE SHAFT IN RADIATOR ROOM REPLACED'.
**16.09.1991** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WINDSCREEN WIPER ARM TIGHTENED'.
**16.09.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED & 1 SAND PIPE TIGHTENED'.
**16.09.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED'.
**16.09.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - LOCO PULLED OFF A/C FAULTY BRUSH BOX IN NO.5 TRACTION MOTOR'.
**21.09.1991** Service defect: 'UN - AUXILLARY MACHINES - OIL PRIME PUMP MOTOR REPLACED'.
**23.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HANDBRAKE

LUBRICATED'.

**25.09.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FOUND IN REAR OF VIGILANCE WARNING LIGHT'.

**08.05.1992** Service defect: 'TS - STARTER MOTOR - AWAITING STARTING MOTORS FROM GERMANY.'.

**08.05.1992** Service defect: 'TS - AWAITING STARTING MOTORS FROM GERMANY.'.

**22.07.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - BOOST FAILURE SWITCH REPLACED.'.

**22.07.1992** Service defect: 'UN - GENERAL - FIRE EXTINGUISHER HOLDER SECURED TO FLOOR.'.

**11.08.1992** Service defect: 'TW - OTHER BODY REPAIRS - LEAKING ROOF REPAIRED.'.

**22.08.1992** Service defect: 'UN - FUEL SYSTEM LINES - FUEL LEAK ON FUEL RAIL REPAIRED.'.

**22.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WHISTLE CHORD REPAIRED.'.

**22.08.1992** Service defect: 'UN - NO FAULT FOUND - DYNAMIC BRAKE REPORTED TO GO TO 500AMPS IN D. NO FAULT FOUND'.

**22.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.

**25.08.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE CLEANED OFF.'.

**25.08.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED DYNAMIC BRAKE FAULT AND BURNING SMELL IN ELECTRICALCUBICLE. NO FAULTS FOUND.'.

**27.08.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDOMETER LIGHT REPLACED.'.

**27.08.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - NUMERAL LIGHTS SWITCH REPLACED.'.

**14.09.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES. BRAKES ADJUSTED.'.

**23.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**23.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**30.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**30.09.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED VIGILANT FAULT. NO FAULT FOUND.'.

**09.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDOW WIPERS TIGHTENED.'.

**09.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**29.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**12.11.1992** Service defect: 'B - BATTERY MAINTENANCE - BATTERIES WASHED AND WATERED, SPEC GRAV 1275. NEW RUBBER STRIPS FITTED ON BATTERY LIDS.'.

**12.11.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - LOAD POTENTIOMETER CLEANED. SANDING SOLENOID REPAIRED.'.

**12.11.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.

**12.11.1992** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOW AND TWO BELLOW GASKETS REPLACED.'.

**12.11.1992** Service defect: 'B - FUEL SYSTEM PUMP - NUMBER 2 FUEL PUMP A BANK REPLACED. 8 BANJO WASHERS REPLACED.'.

**12.11.1992** Service defect: 'B - LUBRICATING SYSTEM - RUBBER SEALS REPLACED ON OIL COOLER.'.

**12.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT - PONGLASS FILTERS REPAIRED. FRONT SPLINE SHAFT BOLT TIGHTENED.'.

**12.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**12.11.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND BRAKE ADJUSTER REPAIRED. BRAKE HANGER BOLTS REPLACED.'.

**16.11.1992** Service defect: 'UN - NO FAULT FOUND - OIL LEAK REPORTED. NO OIL LEAK FOUND. A. BUTT FORGOT TO GET KILOMETER READING THEREFORE THIS KM FIGURE IS AN ESTIMATE.'.

**18.11.1992** Service defect: 'UN - FUEL SYSTEM LINES - FUEL PUMP HIGH PRESSURE PIPE REPLACED NUMBER 2 A BANK.'.

**18.11.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED OIL LEAK AND OIL BLOBS COULD BE SEEN ON PAINTWORK. HOWEVER NO OIL LEAK WAS FOUND. COULD BE FROM A COUPLED LOCO.'.

**25.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER VALVE REPLACED.'.

**25.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**25.11.1992** Service defect: 'UN - NO FAULT FOUND - PHONE FAULT REPORTED. NO FAULT FOUND.'.

**09.12.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED AS DROPPING AMPS WHEN COUPLED TO ZB10. CHECKED BY ELECTRICAL FITTERS AND NO FAULT FOUND.'.

**15.12.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**15.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**16.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED AS OVERHEATING. HIGH WATER TEMP SWITCH CHECKED AND NO FAULT FOUND.'.

**18.12.1992** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE IN REAR CONNECTION BOX CAUSING OVERHEATING OF ENGINE THROUGH POOR OPERATION OF COOLING FAN. FAULT REPAIRED'.

**13.01.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**20.02.1993** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULT FOUND.'.

**19.03.1993** Service defect: 'TW - BROKEN PIPE - SPLIT EQUALISING RESERVOIR GAUGE PIPE REPLACED.'.

**19.03.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - FLOURESCENT PANEL LIGHT MODIFICATION CARRIED OUT.'.

**19.03.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**27.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**05.04.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC2 FOUND TO BE STICKING AND REPAIRED.'.

**05.04.1993** Service defect: 'B - COOLING SYSTEM - MAIN WATER PIPE RUBBERS REPLACED ON A BANK.'.

**05.04.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FIRE DETECTOR AND ROOF LIGHT PLUG REPLACED.'.
**05.04.1993** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 2A CYLINDER HEAD INLET TAPPET ADJUSTED.'.
**05.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE PIPE REPAIRED. TURBOCHARGER DRAINS CLEARED. REAR TRACTION MOTOR BLOWER BELT TIGHTENED.'.
**05.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND BRAKES ADJUSTED.'.
**06.04.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**06.04.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - 2 FLUORESCENT GAUGE RIBBONS REPLACED.'.
**16.04.1993** Service defect: 'UN - COOLING SYSTEM - HEADER TANK WATER PIPES REPLACED. CORROSION INHIBITOR ADDED TO COOLING WATER.'.
**23.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED INDEPENDANT BRAKE FAULT CHECKED AND OK. DRIVER ERROR. BRAKES CHECKED.'.
**23.04.1993** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED.'.
**27.04.1993** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - BROKEN WIRE TO OIL PRESSURE RELAY REPAIRED. APPEARS TO STILLBE EARTH FAULT IN THIS CONDUIT. WILL BE CHECKED TOMORROW.'.
**06.05.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS REMOVED FROM POWER AND CONTROL CIRCUITS.'.
**13.05.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL CIRCUIT EARTHS CLEARED.'.
**24.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.06.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED ONLY 800 AMPS. TEST RUN TO CONARA AND NO FAULT FOUND. RADIO TESTED OK.'.
**30.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.07.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**03.07.1993** Service defect: 'UN - LUBRICATING SYSTEM - REPORTED OIL IN ENGINE COOLING WATER. WATER AND OIL SAMPLES TAKEN FOR LABORATORY TESTS. NO OBVIOUS VISUAL CONTAMINATION.'.
**06.07.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED JUMPING. CHECKED AND NO FAULT FOUND.'.
**08.07.1993** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - LIGHTING CIRCUIT WIRING REPAIRED.'.
**08.07.1993** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**09.07.1993** Service defect: 'UN - TRACTION MOTOR - NUMBER 3 AND 4 TRACTION MOTOR RESISTANCE REPLACED.'.
**15.07.1993** Service defect: 'UN - RADIO REPAIR - LOOSE WIRE IN RADIO REPAIRED.'.
**28.07.1993** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - TDR1 SNAP SWITCH REPLACED.'.
**28.07.1993** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - CRR REPLACED.'.
**28.07.1993** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**06.08.1993** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CONTROL EARTHS CLEARED.'.
**09.08.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPAIRED.'.
**11.08.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED VOLTAGE REGULATOR FAULT. CHECKED AND NO FAULT FOUND'.
**17.08.1993** Service defect: 'B - COOLING SYSTEM - OIL COOLER RUBBERS RENEWED ON B SIDE.'.
**17.08.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**17.08.1993** Service defect: 'B - FUEL SYSTEM PUMP - NUMBER 4 B FUEL PUMP WASHER REPLACED.'.
**17.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT - TRIAL OF NEW TYPE DOOR AIR FILTERS (STEEL SURROUND). REAR TRAC MOT BLOWER BELT TIGHTENED. LEADING BLOWER BELT REPLACED'.
**17.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED AND HOSES REPAIRED.'.
**17.08.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**24.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR OIL TOPPED UP.'.
**24.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**27.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - BOOST FAILURE FAULT REPAIRED.'.
**09.09.1993** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED.'.
**09.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**17.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**11.10.1993** Service defect: 'UN - BROKEN PIPE - AIR LEAK REPAIRED.'.
**11.10.1993** Service defect: 'UN - FUEL SYSTEM - FUEL GAUGE REPAIRED.'.
**11.10.1993** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER AND STEP REPAIRED.'.
**13.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BLOWER BELT REPLACED.'.
**09.12.1993** Service defect: 'UN - BOGIE - BOGIES FROM ZB11 PLACED UNDER THIS LOCO. (ZB11 WAS DERAILED AT NABOWLA AND WRITTEN OFF).'.
**09.12.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NUMBER 1 WHEEL SET REPLACED.'.
**09.12.1993** Service defect: 'UN - TRACTION MOTOR - NUMBERS 1 AND 6 TRACTION MOTORS REPLACED.'.
**04.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**10.02.1994** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.
**10.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**10.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIREMANS SIDE HEATER REPAIRED.'.
**10.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**10.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - PEDESTAL BRAKE REPAIRED.'.
**12.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.
**16.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**21.02.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED.'.
**08.03.1994** Service defect: 'TW - COOLING SYSTEM - CORROSION INHIBITOR ADDED.'.
**08.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**16.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRED COLLISION DAMAGE CAUSED BY CONTAINERS.'.
**19.05.1994** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - PC1, PC2, AR & 1LR RELAYS REPLACED.********** WIRING IN POTENTIOMETER REPLACED.'.
**19.05.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS BURNT WIRING - REPLACED BURNT WIRING UNDER FIREMANS SEAT. EARTHS CLEARED. START BUTTON REPLACED.'.
**19.05.1994** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOWS REPLACED.'.
**19.05.1994** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - 2 KNUCKLES REPLACED.'.
**19.05.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. 1 AIR BRAKE HOSE REPLACED. 1 MAIN RESERVOIR HOSE REPLACED.'.
**19.05.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED. 5 GLOBES REPLACED.'.
**26.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - LEADING TRACTION MOTOR BLOWER REPLACED.'.
**04.07.1994** Service defect: 'TS - DYNAMIC BRAKE - DYNAMIC BRAKE FAN MOTOR REPLACED.**********'.
**28.07.1994** Service defect: 'UN - FUEL SYSTEM - FUEL TANK DAMAGE REPAIRED.'.
**28.07.1994** Service defect: 'UN - OTHER BODY REPAIRS - DERAILMENT DAMAGE REPAIRED. DERAILED AT DO JUNCTION VANDAL INCIDENT.****'.
**17.08.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - FRONT COUPLING REPLACED DUE TO COLLISION.'.
**18.08.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTOMATIC BRAKE HEAD REPLACED.'.
**18.08.1994** Service defect: 'UN - STARTER MOTOR - DRIVERS SIDE STARTER MOTOR REPLACED.**********'.
**24.08.1994** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED. SOME DOOR FILTERS BURNT. M SMITH REPLACED IN HOBART.'.
**28.09.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY REPLACED.'.
**28.09.1994** Service defect: 'UN - ENGINE - FLYWHEEL RING GEAR REPAIRED.'.
**28.09.1994** Service defect: 'UN - FUEL SYSTEM - LEAKING FUEL TANK REPAIRED.'.
**28.09.1994** Service defect: 'UN - STARTER MOTOR - BOTH STARTER MOTORS REPLACED.**********

**ZB 16**

**30.05.1991** Service defect: 'UN - CRASH REPAIRS'.

## 2.55 Locomotive classification starting with 'ZC'

**ZC 1**

Details: locomotive 'ZC 1 S' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $115380
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** STORED 18/12/96:EX Q.R. 1300
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Last Lift: | 22.02.1991 | | |
| A Service Mileage: | 467481 KM | A Service Date: | 19.09.1994 |
| B Service Mileage: | 512542 KM | B Service Date: | 30.11.1995 |
| C Service Mileage: | 437174 KM | C Service Date: | 15.09.1993 |
| US Service Mileage: | 546780 KM | A Service Date: | 12.04.1996 |

**03.07.1989** Service defect: 'UN - DYNAMIC BRAKE SETTING - TDR.3 ADJ.'.
**10.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START.(FLAT BATTERIES)'.
**10.07.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**12.07.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE OIL PIPE RENEWED.'.
**12.07.1989** Service defect: 'B - EXHAUST - BELLOWS RENEWED.'.
**12.07.1989** Service defect: 'B - FUEL SYSTEM LINES - FUEL LEAKS REPAIRED.'.
**17.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE RENEWED.'.
**17.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - F/SIDE WINDOW REPAIRED.'.
**28.07.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN & WATER CHANGED.'.

**28.07.1989** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - COUPLING WELDED & BOLTS REPL.’.
**02.08.1989** Service defect: ‘UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPL.’.
**08.08.1989** Service defect: ‘UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPL.’.
**08.08.1989** Service defect: ‘UN - GENERAL - *SEAT TO BE REPL.(NO SPARES AVAILABLE)’.
**08.08.1989** Service defect: ‘UN - MECHANICAL EQUIPMENT - HANDBRAKE REPAIRED.(SEIZED)’.
**22.08.1989** Service defect: ‘TW - ELECTRICAL MISCELLANEOUS - REPL.REAR H/LIGHT & MARKER LIGHT.’.
**22.08.1989** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**22.08.1989** Service defect: ‘TW - TRACTION MOTOR - BLOWER REPAIRED.’.
**31.08.1989** Service defect: ‘UN - GENERAL - OIL SAMPLE TAKEN.’.
**31.08.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - H/BRAKE ACTIVATING LUG ADJUSTED.’.
**31.08.1989** Service defect: ‘UN - NO FAULT FOUND - TRACTION MOTOR TESTED ‘OK’.’.
**07.09.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**14.09.1989** Service defect: ‘UN - GENERAL - OIL SAMPLE TAKEN.’.
**14.09.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - IND.BRAKE HOSE REPL.&ALL BRAKES CHECKED.’.
**28.09.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**28.09.1989** Service defect: ‘UN - RADIO REPAIR - REPAIRED RADIO.’.
**19.10.1989** Service defect: ‘B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED & (1)F/LUBE NOZZLE REPL.’.
**19.10.1989** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.’.
**19.10.1989** Service defect: ‘B - EXHAUST - (2)BELLOWS RENEWED’.
**19.10.1989** Service defect: ‘B - MAIN GENERATOR BRUSHES - (6)BRUSHES REPL.’.
**19.10.1989** Service defect: ‘B - MECHANICAL EQUIPMENT - FAN CLUTCH REPL.’.
**19.10.1989** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**19.10.1989** Service defect: ‘B - OTHER BODY REPAIRS - ROOF MODIFIED.’.
**19.10.1989** Service defect: ‘B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.’.
**19.10.1989** Service defect: ‘B - WHEELSLIP - REPAIRED BELL.’.
**26.10.1989** Service defect: ‘UN - FUEL SYSTEM - REPAIRED FUEL LEAK.’.
**26.10.1989** Service defect: ‘UN - GENERAL - REPL.BROKEN WATER GAUGE GLASS.’.
**26.10.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**26.10.1989** Service defect: ‘UN - OTHER BODY REPAIRS - ENGINE ROOM DOOR SECURED.’.
**09.11.1989** Service defect: ‘UN - COOLING SYSTEM - WATER CHANGED.’.
**09.11.1989** Service defect: ‘UN - GENERAL - REPL.BOTH SEATS.(TORN)’.
**09.11.1989** Service defect: ‘UN - LUBRICATING SYSTEM - OIL SAMPLE TAKEN.’.
**09.11.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**27.11.1989** Service defect: ‘UN - BATTERY MAINTENANCE - JUMP STARTED.(VOLTS CHECKED)’.
**27.11.1989** Service defect: ‘UN - LUBRICATING SYSTEM - OIL LEAK ON RAIL STOPPED.’.
**27.11.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**27.11.1989** Service defect: ‘UN - TRACTION MOTOR - BELLOW REPL.(TORN)’.
**30.11.1989** Service defect: ‘UN - NO FAULT FOUND - AMPS TESTED ‘OK’.’.
**13.12.1989** Service defect: ‘UN - COOLING SYSTEM - WATER CHANGED.’.
**13.12.1989** Service defect: ‘UN - ELECTRICAL MISCELLANEOUS - (13)LAMPS REPL.’.
**13.12.1989** Service defect: ‘UN - GENERAL - ‘A’SERVICE.’.
**13.12.1989** Service defect: ‘UN - MECHANICAL EQUIPMENT COUPLER - FRONT COUPLER REPAIRED.’.
**13.12.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**13.12.1989** Service defect: ‘UN - RADIO REPAIR - RADIO H/SET REPL.’.
**27.03.1990** Service defect: ‘TS - ELECTRICAL MISC. AC/DC RELAYS - PC1 CONTACTS CLEANED LOCO TESTED ‘OK’.’.
**29.03.1990** Service defect: ‘UN - COOLING SYSTEM - RENEWED WATER FILLER CAP.’.
**29.03.1990** Service defect: ‘UN - RADIO REPAIR - LOOSE WIRE AT RADIO PLUG TIGHTENED.’.
**30.05.1990** Service defect: ‘C - CONTACTOR MISCELLANEOUS - MC1 CONTACTOR REPL.(MISSING)’.
**30.05.1990** Service defect: ‘C - ELECTRICAL MISC. AC/DC RELAYS - PC1 RELAY REPAIRED.’.
**30.05.1990** Service defect: ‘C - ENGINE - ADJ. TIMING CHAIN.’.
**30.05.1990** Service defect: ‘C - ENGINE - REPL. H/GASKET NO.2 ‘A’ BANK,NO.1 ‘B‘BANK & NO.5 ‘B‘BANK’.
**30.05.1990** Service defect: ‘C - GENERAL - EXHAUST CAMS ON NO.5& NO.1 ‘A‘BANK TO BE CHECKED FOR WEAR.’.
**30.05.1990** Service defect: ‘C - GENERAL - T/MOTORS TO BE LOOKED AT WHEN LOCO IS DISCONNECTED.’.
**30.05.1990** Service defect: ‘C - MAIN GENERATOR BRUSHES - (1)BRUSH REPL.’.
**05.06.1990** Service defect: ‘UN - EXHAUST - (2)EXHAUST PLUGS REPL.(MISSING)’.
**02.10.1990** Service defect: ‘B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED O.K.’.
**02.10.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - 8 LAMPS REPLACED’.
**02.10.1990** Service defect: ‘B - GENERAL - SPEEDO ON LOCO READ 984200K/M.’.
**02.10.1990** Service defect: ‘B - MECHANICAL EQUIPMENT - EXHAUST BELLOW CHANGED,OIL COOLER DRAIN REPAIRED’.
**02.10.1990** Service defect: ‘B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SANDERS REPAIRED’.
**02.10.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BLOCKS REPLACED AND ADJUSTED,DISTRIBUTING VALVE CHANGED’.

**02.10.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 T/M BRUSHES REPLACED'.
**15.01.1991** Service defect: 'B - AUXILLARY MACHINES - 1 AUX. GENERATOR BRUSH REPLACED'.
**15.01.1991** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - REAR MARKER LIGHT WIRING REPAIRED'.
**15.01.1991** Service defect: 'B - ENGINE - NO. 3 (A) BANK HEAD GASKET REPLACED'.
**15.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 875045KM'.
**15.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT - T/M BLOWER REPLACED,NO.3 (B) BANK H.P.REPLACED,EXHAUST BELLOW REPLACED,T/M BELLOW REPLACED'.
**15.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED'.
**16.01.1991** Service defect: 'B - - 1 AUX.GENERATOR BRUSH REPLACED'.
**16.01.1991** Service defect: 'B - ENGINE - NO.3 (A) BANK HEAD GASKET REPLACED,NO.3 (B) BANK H.P. REPLACED'.
**16.01.1991** Service defect: 'B - GENERAL - SPEEDO READ 996603'.
**16.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT - NO.2 (A) BANK FUEL PUMP REPLACED'.
**16.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT - T/M BLOWER REPLACED,EXHAUST BELLOW REPLACED,1 T/M BELLOW REPLACED'.
**16.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED'.
**14.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**14.05.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 019720KM.'.
**14.05.1991** Service defect: 'B - LUBRICATING SYSTEM - OIL COOLER DRAIN REPAIRED'.
**14.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 2 EXHAUST BELLOWS REPLACED,F/S REAR WIPER REPAIRED 2 SUSPENSION BOLTS REPLACED,LUBRICATOR WELDED TO SAND BOX'.
**14.05.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED'.
**05.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**05.06.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH AMPS OR VIG.'.
**07.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 024604KM.'.
**07.06.1991** Service defect: 'UN - NO FAULT FOUND - AMPS & RADIO TESTED O.K.'.
**14.06.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR ADJUSTED & TESTED ON LOAD TANK O/K.'.
**21.06.1991** Service defect: 'TS - CONTACTOR MISCELLANEOUS - A.F.C.CONTACTOR REPAIRED A/C CONTACT BLOCK HOLDING PIN FALLING OUT'.
**21.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - LOCO VOLTAGE ADJUSTED,CHARGING CHECKED O.K.'.
**25.06.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER REPLACED'.
**01.07.1991** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - ALL EARTHS ON CONTROL WIRING CLEARED'.
**26.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED,VOLTAGE TESTED OK.'.
**26.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - GASKET FITTED TO FUEL GAUGE'.
**26.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH RADIO'.
**06.08.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX. GENERATOR BELT REPLACED'.
**06.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - F/S SPEEDO CABLE REPLACED'.
**08.08.1991** Service defect: 'UN - NO FAULT FOUND - FIELD DIVERSION TESTED OK.'.
**16.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**16.08.1991** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDING MODIFICATION CARRIED OUT'.
**21.08.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - 2 FLANGE LUBE PIPES RENEWED,2 NOZZLES REPLACED'.
**21.08.1991** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED'.
**21.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 10 GLOBES REPLACED'.
**21.08.1991** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK ON COOLER REPAIRED'.
**21.08.1991** Service defect: 'B - EXHAUST - NO.4 & NO.6 EXHAUST CAMS 'A' BANK WORN'.
**21.08.1991** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH REPAIRED'.
**21.08.1991** Service defect: 'B - RADIO REPAIR - RADIO & HANDSET REPLACED'.
**21.08.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED'.
**23.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - CLOCK WINDER REPAIRED'.
**23.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**09.09.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**16.09.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHARGED & WATERED'.
**21.09.1991** Service defect: 'UN - BATTERY MAINTENANCE - BLOWN BATTERY REPLACED'.
**30.09.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**02.10.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - F/S HEATER SWITCH REPLACED'.
**02.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - COMPRESSOR GOVERNOR ADJUSTED MAIN RESERVOIR GAUGE REPLACED'.
**10.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE PRESSURE ADJUSTED'.
**12.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPLACED'.
**23.10.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - JUMPER SOCKET LID REPLACED,COMPRESSOR GOVERNOR DIODE RENEWED'.

**23.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT BRAKE HEAD REPLACED'.
**29.10.1991** Service defect: 'UN - GENERAL - ** A SERVICE COMPLETE **'.
**29.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BLOWER BEARINGS REPLACED'.
**02.11.1991** Service defect: 'TS - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**18.11.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**27.08.1992** Service defect: 'UN - ENGINE - ENGINE NUMBER 7512 EX ZC24 INSTALLED IN THIS LOCOMOTIVE. SPARE CRANKSHAFT DAMPER FITTED AFTER SILICONE FLUID CHECKED.'.
**31.08.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**04.09.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.
**10.09.1992** Service defect: 'UN - FUEL SYSTEM PUMP - STICKING FUEL REPLACED.'.
**28.09.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - FLANGE LUBRICATOR FUSE REPLACED.'.
**14.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS FREED UP.'.
**14.10.1992** Service defect: 'UN - NO FAULT FOUND - FIELD DIVERSION FAULT REPORTED. STATIC TESTED AND NO FAULT FOUND.'.
**27.10.1992** Service defect: 'UN - ENGINE - TRANSFER CASE REPLACED. SPLIT BUSH IN OLD CASE WAS CAUSING OIL TO LEAK OUT.'.
**30.10.1992** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WATERED AND CHARGED.'.
**30.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMPRESSOR GOVERNOR DIODES REPLACED.'.
**30.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - REAR DRIVERS SIDE SANDBOX HOLE PATCHED.'.
**30.10.1992** Service defect: 'UN - RADIO REPAIR - PHONE/RADIO POWER SUPPLY REPLACED.'.
**09.11.1992** Service defect: 'UN - ENGINE - AUXILLIARY DRIVE FITTED TO ENGINE. THIS UNIT RECONDITIONED IN QUEENSLAND AND WAS COMPLETE WITH LUBE OIL PUMP ETC.'.
**08.12.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**11.12.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHTS CHECKED AND GAUGE GLASSES CLEANED.'.
**11.12.1992** Service defect: 'UN - RADIO REPAIR - RADIO BRACKET AND PHONE HANDSET MOVED TO NEW POSITION TO COMPLY WITH DRIVERS REQUESTS.'.
**17.12.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - TDR2 CONTACTS REPLACED.'.
**17.12.1992** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - DLR REPLACED.'.
**17.12.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 5 B BANK HEAD GASKET REPLACED.'.
**17.12.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**17.12.1992** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOWS REPLACED.'.
**17.12.1992** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE PIPE REPAIRED.'.
**17.12.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**17.12.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND BRAKES ADJUSTED.'.
**17.12.1992** Service defect: 'B - RADIO REPAIR - UHF TRANSCEIVER DISPLAY SECURED.'.
**14.01.1993** Service defect: 'TW - ENGINE - BIG END BEARING FAILURE.'.
**31.03.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CONTACTS CLEANED.'.
**08.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR BELT REPLACED.'.
**15.04.1993** Service defect: 'TW - BATTERY MAINTENANCE - 1 BATTERY REPLACED.'.
**15.04.1993** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES OUT OF WATER. REFILLED WITH ELECTROLYTE AND ENGINERUN TO CHARGE.'.
**16.04.1993** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES CHARGED.'.
**21.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - AUXILLIARY GENERATOR BELT REPLACED. LEADING TRACTION MOTOR BLOWER REPLACED.'.
**07.05.1993** Service defect: 'UN - DYNAMIC BRAKE - REPLACED TIMER ON TDR3.'.
**07.05.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - FIELD DIVERSION RELAYS CONTACTS CLEANED.'.
**07.05.1993** Service defect: 'UN - NO FAULT FOUND - TEST RUN TO ROCHERLEA AND OK.'.
**11.05.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - CURRENT LIMITING RELAYS NUMBER 1 & 2 ADJUSTED.'.
**21.06.1993** Service defect: 'TW - FUEL SYSTEM - FUEL TANK REPAIRED.'.
**02.07.1993** Service defect: 'TS - ELECTRICAL MISC. JUMPER CABLES - ZB12 AND ZC1 PARTED RIPPING JUMPER LEAD IN TWO. JUMPER LEAD REPLACED'.
**14.07.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**14.07.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**29.07.1993** Service defect: 'UN - FUEL SYSTEM - HOLE IN FUEL TANK REPAIRED.'.
**09.08.1993** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - BROKEN TRI MOUNT SPRING REPLACED.'.
**09.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL FILLER CAPS REPLACED.'.
**11.08.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMPRESSOR MAGNET VALVE CLEANED.'.
**11.08.1993** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK IN PIPE TO GOV BEHIND FLYWHEEL REPAIRED. BILGE DRAIN REPAIRED.'.
**11.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**27.08.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - BROKEN THROTTLE AIR PRESSURE PIPE TO GOVERNOR REPAIRED.'.

**28.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR REPAIRED.'.
**15.09.1993** Service defect: 'C - ENGINE CYLINDER HEADS - NUMBER 6A AND NUMBER 3B CYLINDER HEAD GASKETS REPLACED.'.
**15.09.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO DRAINS CLEARED.'.
**15.09.1993** Service defect: 'C - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BLOWER BEARINGS REPLACED.'.
**15.09.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKLE BLOCKS REPLACED AND ADJUSTED.'.
**13.10.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - BLOWER FAILURE RELAY ADJUSTED.'.
**13.10.1993** Service defect: 'UN - LUBRICATING SYSTEM - 50
**14.10.1993** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - FIELD DIVERSION FAULT REPAIRED.'.
**14.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBRICATOR REPAIRS CARRIED OUT.'.
**30.11.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED, AND BRAKES ADJUSTED.'.
**03.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**16.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**16.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**14.03.1994** Service defect: 'UN - TRACTION MOTOR EARTH - LOCO TO BE BOOKED IN FOR A B SERVICE. EARTHS IN NUMBER 3 AND4 TRACTION MOTORS WILL BE INVESTIGATED THEN.'.
**21.03.1994** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - BLOWER FAILURE SWITCH REPLACED.'.
**21.03.1994** Service defect: 'B - MECHANICAL EQUIPMENT - #6 TRACTION MOTOR BELLOWS REPAIRED. REAR TRACTION MOTOR BLOWER BELLOW REPLACED'.
**21.03.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED.'.
**21.03.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. 1 FLANGE LUBE HOSE REPLACED.'.
**21.03.1994** Service defect: 'B - TRACTION MOTOR EARTH - CABLES REPAIRED ON #3 & #4 TRACTION MOTORS.'.
**26.04.1994** Service defect: 'UN - MAIN GENERATOR BURNT OUT - MAIN GENERATOR DESTROYED AND #1 TRACTION MOTOR EARTH. TO BE STORED UNTIL DECISION MADE AS TO THE LOCO'S FUTURE.'.
**19.07.1994** Service defect: 'B - AUXILLARY MACHINES - AUXILLIARY GENERATOR REPLACED.**********'.
**19.07.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - SPRING CLIP ON MC #2 REPLACED.'.
**19.07.1994** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - FIELD WIRES TO MAIN GEN REPLACED IN NEW CONDUIT.'.
**19.07.1994** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - BMR RELAY REPLACED.'.
**19.07.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - NEW FLANGE LUBE CONTROL UNIT INSTALLED.******'.
**19.07.1994** Service defect: 'B - MAIN GENERATOR - MAIN GENERATOR REPLACED.**********
**19.07.1994** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR DRIVE PLATE CHANGED.'.
**19.07.1994** Service defect: 'B - RADIO REPAIR - NEW POWER SUPPLY FOR PHONE AND TRANCEIVER.******'.
**19.07.1994** Service defect: 'B - TRACTION MOTOR - NUMBER 1 TRACTION MOTOR REPLACED.**********'.
**04.08.1994** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR NUMBER 3 REPLACED.**********'.
**17.08.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED.'.
**99.99.9999** Service defect: 'UN - MAIN GENERATOR BEARING FAILURE.'.

**ZC 2**

Details: locomotive 'ZC 2 E' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** W/O 30.06.91;EX Q.R. 1301
**BSG Code:** LTAV

**ZC 3**

Details: locomotive 'ZC 3 N' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw

**Remarks:** EX Q.R. 1302;NOT YET IN TRAFFIC
**BSG Code:** LTAV

**ZC 5**

Details: locomotive 'ZC 5 X' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $135850
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** STORED LAUNCESTON 17.10.92
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| C Service Mileage: | 925864 KM | C Service Date: | 05.05.1992 |
| US Service Mileage: | 450897 KM | A Service Date: | 14.10.1992 |

**04.07.1989** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES WATERED.(DRY)'.
**04.07.1989** Service defect: 'TS - VIGILANCE - VIG.REPAIRED.'.
**11.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED ELECT. 'OK'. (SHUT ITSELF DOWN.)'.
**11.07.1989** Service defect: 'UN - TRACTION MOTOR - BELLOWS RENEWED,'.
**17.07.1989** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH RENEWED.'.
**26.07.1989** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - FRONT JUMPER SOCKET REPAIRED.'.
**26.07.1989** Service defect: 'UN - NO FAULT FOUND - HORN TESTED 'OK'.'.
**04.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - HEATERS REPAIRED.'.
**04.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**15.08.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - REPL.HEATER SWITCH.'.
**22.08.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED ELECT.'OK''.
**24.08.1989** Service defect: 'UN - TRACTION MOTOR - BEARING RENEWED.(REAR BLOWER DRIVE BEARING)'.
**28.08.1989** Service defect: 'UN - GENERAL - JUMP START.(FLAT BATTERIES)'.
**28.08.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.
**30.08.1989** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTHS REMOVED FROM CONTROL CIRCUITS.'.
**30.08.1989** Service defect: 'UN - NO FAULT FOUND - MAIN CIRCUIT BREAKER TESTED 'OK'.'.
**31.08.1989** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - H/LIGHT LAMP REPL.'.
**31.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**31.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**18.09.1989** Service defect: 'UN - DYNAMIC BRAKE BURNTOUT BRAKE GRIDS - DISCONNECTED BURNTOUT GRIDS.'.
**18.09.1989** Service defect: 'UN - FUEL SYSTEM LINES - H/PRESSURE PIPE REPL.'.
**28.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**04.10.1989** Service defect: 'UN - GENERAL - 'A'SERVICE'.
**04.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**04.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - DOOR SEALS REPAIRED.'.
**09.10.1989** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - REPL. VOLTAGE REGULATOR.'.
**11.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL SAMPLE TAKEN.'.
**11.10.1989** Service defect: 'UN - NO FAULT FOUND - FAULT BELL CHECKED 'OK'.'.
**17.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**17.10.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (1)LAMP REPL.& GREASE PIPE.'.
**17.10.1989** Service defect: 'C - FUEL SYSTEM PUMP - NO.3 'A'BANK F/PUMP WASHER TIGHTENED.'.
**17.10.1989** Service defect: 'C - GENERAL - ALL OIL & FUEL FILTERS REPL.'.
**17.10.1989** Service defect: 'C - MECHANICAL EQUIPMENT - MAIN RESERVIOR AIR PIPE RUBBERS RENEWED.'.
**17.10.1989** Service defect: 'C - OTHER BODY REPAIRS - ROOF MODIFIED.'.
**17.10.1989** Service defect: 'C - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**19.10.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**24.10.1989** Service defect: 'UN - FUEL SYSTEM LINES - REPAIRED FUEL LEAK.'.
**24.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL SAMPLE TAKEN.'.
**27.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**10.11.1989** Service defect: 'UN - COOLING SYSTEM - CHANGED WATER.'.
**10.11.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.
**10.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - (2)BROKEN SAND PIPES REPL.(DERAILMENT DAMAGE)'.
**10.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**15.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**17.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**27.04.1990** Service defect: 'UN - NO FAULT FOUND - TRACTION MOTOR BEARING CHECKED ON TRIAL RUN. OK.'.
**04.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBE PIPE.'.
**04.05.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - AIR LEAK ON MC1 REPAIRED.'.
**04.05.1990** Service defect: 'B - COOLING SYSTEM - WATER HOSE TIGHTENED ON 'A'BANK WATER RAIL.'.
**04.05.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.,WIRE RELUGGED

FOR AIR PRESSURE SWITCH,STEP LIGHT SOCKET SECURED & INSULATORS CLEANED.'.

**04.05.1990** Service defect: 'B - FUEL SYSTEM PUMP - NO.2 'A'BANK F/PUMP WASHER RENEWED.'.

**04.05.1990** Service defect: 'B - GENERAL - K/M ON LOCO READ 838535 K/M.'.

**04.05.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (4)BRUSHES REPL.'.

**04.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**04.05.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (10)BRUSHES REPL.'.

**04.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 01-05-90.AT 2000HRS.'.

**18.05.1990** Service defect: 'UN - GENERAL - *SPEEDO ON LOCO 841028K/M.'.

**21.05.1990** Service defect: 'UN - BODY REPAIRS - ACCIDENT - CRACKED SANDBOX REPAIRED.'.

**11.09.1990** Service defect: 'B - AUXILLARY MACHINES - 2 AUXILLARY GENERATOR BRUSHES REPLACED'.

**11.09.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - 2 MAIN GENERATOR BRUSHES'.

**25.02.1991** Service defect: 'B - BOGIE - SPLIT CRATER BOX REPAIRED'.

**25.02.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.

**25.02.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 5 LAMPS REPLACED'.

**25.02.1991** Service defect: 'B - ENGINE WATER LEAK - WATER LEAKS REPAIRED'.

**25.02.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 875045KM'.

**25.02.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 16 MAIN GENERATOR BRUSHES REPLACED'.

**25.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - EXHAUST BELLOW REPLACED,DERAIL CHAIN PIN REPLACED,TRIMOUT SPRING REPLACED'.

**25.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED,REAR SANDER HOSES REPAIRED,SAND BOX TRAP AND PIPE REPLACED'.

**25.02.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED'.

**25.02.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 T/M BRUSHES REPLACED,2 BRUSH BOXES REPLACED'.

**05.06.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - HOTPLATE GUARD REPLACED'.

**05.06.1991** Service defect: 'TW - GENERAL - 'A SERVICE".

**07.06.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.

**15.06.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - FAULTY HEADLIGHT SWITCH REPLACED'.

**15.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - INNER SPEEDO CABLE REPLACED'.

**22.06.1991** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - F.A.R. DETECTOR REPAIRED'.

**02.07.1991** Service defect: 'TS - RADIO REPAIR - RADIO FUSES REPLACED,RADIO TESTED OK.'.

**03.07.1991** Service defect: 'TS - RADIO REPAIR - RADIO REPLACED & BLOWN RADIO FUSE REPLACED'.

**04.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - REPLACED F/S SPEEDO CABLE'.

**04.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO TESTED OK.'.

**08.07.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - PANEL LIGHT CONVERTER & DIMMER REPLACED'.

**08.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.

**11.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CIRCUIT BREAKER PROBLEM TO BE RECTIFIED ON 'B' SERVICE'.

**11.07.1991** Service defect: 'TS - ENGINE TAKEN TO BE WASHED FOR 'B' SERVICE MONDAY'.

**11.07.1991** Service defect: 'TS - 15/07/91'.

**16.07.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.

**16.07.1991** Service defect: 'B - DYNAMIC BRAKE - DYNAMIC BRAKE CUT OUT VALVE CABLE REPAIRED DYNAMIC BRAKE MOTOR CLEANED'.

**16.07.1991** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - INTERIOR LIGHT WIRING REPAIRED'.

**16.07.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - EARTHS ON LIGHTING & CONTROL CLEARED,ALL GLOBES REPLACED WITH 25W GLOBES'.

**16.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WIPER REPAIRED'.

**16.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - FRONT COUPLING REPLACED'.

**16.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED'.

**16.07.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED'.

**20.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - HEATER SWITCH REPLACED'.

**20.07.1991** Service defect: 'TS - NO FAULT FOUND - NO PROBLEM FOUND WITH NOISY TRACTION MOTORS'.

**24.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE WORKABLE'.

**24.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH BOOST,WHINE IN BOGIE CHECKED OK.'.

**02.11.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH D/S REPLACED'.

**02.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**02.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPLACED D/S'.

**08.11.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - D/S HEATER SWITCH REPLACED'.

**08.11.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.

**12.11.1991** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPLACED'.

**12.11.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.

**25.11.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND MODIFICATION COMPLETED'.

**25.11.1991** Service defect: 'UN - RADIO REPAIR - RADIO MODIFICATION COMPLETED'.

**05.05.1992** Service defect: 'C - ENGINE - CAM FOLLOWER REPLACED, NUMBER 1 B BANK.'.
**05.05.1992** Service defect: 'C - ENGINE CYLINDER HEADS - CYLINDER HEAD GASKET REPLACED NUMBER 1 A BANK.'.
**05.05.1992** Service defect: 'C - EXHAUST - EXHAUST BELLOW REPLACED (LONG A BANK).'.
**05.05.1992** Service defect: 'C - FUEL SYSTEM INJECTORS - FULL SET OF FUEL INJECTORS REPLACED.'.
**05.05.1992** Service defect: 'C - MECHANICAL EQUIPMENT - FLANGE LUBE OIL TANK (FRONT DRIVERS SIDE) REPLACED.'.
**05.05.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDBOX (FRONT DRIVERS SIDE) REPLACED.'.
**05.05.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BRAKE BLOCKS REPLACED.'.
**07.05.1992** Service defect: 'UN - ENGINE WATER LEAK - NO WATER LEAK FOUND.'.
**07.05.1992** Service defect: 'UN - LUBRICATING SYSTEM - FLANGE LUBE OIL TANK REPLACED.'.
**11.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - MISSING SAND BOX BUNG REPLACED.'.
**12.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO FAULT REPAIRED.'.
**02.06.1992** Service defect: 'TW - RADIO REPAIR - RADIO FAULT CAUSED BY POWER SUPPLY OVER VOLTAGE. REPAIRED AND OK.'.
**12.06.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY FAILURE CAUSED BY FAULTY WIRING.'.
**30.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - DRIVERS SEAT REPAIRED.'.
**30.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**02.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - BROKEN BRAKE GAUGE GLASS REPLACED.'.
**02.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT CARRIED OUT, THREE BRAKE BLOCKS CHANGED.'.
**07.07.1992** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS STOPPED.'.
**07.07.1992** Service defect: 'UN - GENERAL - FIRE EXTINGUISHERS CHANGED.'.
**14.07.1992** Service defect: 'UN - CONTACTOR WELDED - REVERSER CONTACTS WELDED WITH HIGH CURRENT TO BURNT OUT TRACTION MOTOR. CONTACTOR REPAIRED.'.
**14.07.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NUMBER SIX TRACTION MOTOR CHANGED.'.
**17.07.1992** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED.'.
**17.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DERAILMENT DAMAGE TO SANDING EQUIPMENT REPAIRED.'.
**08.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HOTPLATE SCREW REPLACED. MISSING NUT IN VIGILANCE PEDAL REPLACED.'.
**08.08.1992** Service defect: 'UN - NO FAULT FOUND - SPEEDOMETER REPORTED JUMPING. NO FAULT FOUND.'.
**11.08.1992** Service defect: 'UN - NO FAULT FOUND - GOING ON CEMENT TRAIN TONIGHT SO PHONE ETC CHECKED. NO FAULTS FOUND.'.
**26.08.1992** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - DYNAMIC BRAKE AMMETER REPLACED.'.
**26.08.1992** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - HEADLIGHT SWITCH REPLACED.'.
**26.08.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - ONE HEADLIGHT REPLACED.'.
**10.09.1992** Service defect: 'UN - BROKEN PIPE - BROKEN AIR PIPE TO FLANGE LUBRICATORS REPAIRED.'.
**22.09.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.10.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - MOTOR CONTACTOR 3 AIR VALVE REPLACED.'.
**07.10.1992** Service defect: 'UN - RADIO REPAIR - PHONE REPOSITIONED.'.
**14.10.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK IN RADIATOR COMPARTMENT REPAIRED.'.

**ZC 6**

**19.07.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**20.07.1989** Service defect: 'UN - ENGINE GOVERNOR - TOPPED UP WITH OIL.'.
**20.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**20.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - CAB CHECKED FOR DRAUGHTS 'OK'.'.
**25.10.1989** Service defect: 'B - ENGINE CYLINDER HEADS - NO.5'A'BANK & NO.3'B'BANK HEAD TIGHTENED.'.
**25.10.1989** Service defect: 'B - ENGINE WATER LEAK - NO.4'B'BANK WATER JACKET REPL.& WATER CLAMPS TIGHTENED.'.
**25.10.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL.& ADJ.'.
**02.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**07.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL SAMPLE TAKEN.'.
**07.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**07.11.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**14.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK STOPPED NEAR GOV.'.
**14.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE REPL. (MISSING)'.
**14.11.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED FOR F/DIVERSION 'OK'.'.
**16.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**16.11.1989** Service defect: 'UN - NO FAULT FOUND - W/SLIP TESTED 'OK''.
**27.11.1989** Service defect: 'UN - GENERAL - 'A'SERVICE.'.
**27.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**27.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SEEDO CHECKED.'.
**27.11.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED ELECTRICALLY 'OK'.'.

**05.12.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - REPAIRED SAND BOX.'.
**05.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**19.12.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - NO.3'A'BANK HEAD GASKET REPL.'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 20-12-89.'.
**03.04.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED.(VOLTAGE & BATT.CHARGE CURRENT TESTED 'OK''.
**06.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED NEAR COMPRESSOR.'.
**06.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED AT BRAKE HEAD.'.
**06.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**24.04.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**01.05.1990** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - RENEWED H/LIGHT.'.
**03.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**03.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE RENEWED.'.
**03.05.1990** Service defect: 'UN - NO FAULT FOUND - FIELD DIVERSION STATIC TESTED 'OK'.'.
**10.05.1990** Service defect: 'UN - NO FAULT FOUND - W/SLIP CIRCUIT TESTED 'OK'.'.
**10.05.1990** Service defect: 'UN - OTHER BODY REPAIRS - RADIATOR COMPARTMENT DOOR LOCK REPAIRED.'.
**16.05.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - AUX.CONTACT REPL.ON MC4.'.
**16.05.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**16.05.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO.1 'B'BANK HEAD REPL.'.
**16.05.1990** Service defect: 'B - FUEL SYSTEM PUMP - NO.1 'B'BANK PUMP REPL.'.
**16.05.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (9)BRUSHES REPL.'.
**16.05.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (8)BRUSHES REPL.'.
**21.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOCO JUMP STARTED OK.'.
**21.05.1990** Service defect: 'UN - NO FAULT FOUND - FAULTY HORN OK.'.
**29.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOCO JUMP STARTED. (FLAT BATTERIES)'.
**29.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 29-05-1990 AT 1400HRS.'.
**29.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD CHANGED.'.
**29.05.1990** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH FAULT ALARM.'.
**30.05.1991** Service defect: 'UN - STORED'.
**99.99.9999** Service defect: 'SW - STORED'.

**ZC 7**

Details: locomotive 'ZC 7 D' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $117600
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1306
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 08.08.1996 | | |
| SW Service Mileage: | 995296 KM | SW Service Date: | 31.01.1992 |
| A Service Mileage: | 585798 KM | A Service Date: | 07.10.1994 |
| B Service Mileage: | 647782 KM | B Service Date: | 13.05.1996 |
| C Service Mileage: | 588890 KM | C Service Date: | 23.12.1994 |
| US Service Mileage: | 658081 KM | A Service Date: | 05.07.1996 |

**03.07.1989** Service defect: 'TW - BATTERY MAINTENANCE - JUMP START (FLAT BATTERIES)'.
**03.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**03.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE TO BE CHANGED LATER (NO SPARES )'.
**05.07.1989** Service defect: 'B - - (8)AUX.GEN.BRUSHES REPL.'.
**05.07.1989** Service defect: 'B - CONTACTOR MISCELLANEOUS - M.C.1 TESTED.(TO BE CHECKED NEXT SERVICE)'.
**05.07.1989** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - LIGHT SWITCH RENEWED.'.
**05.07.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**05.07.1989** Service defect: 'B - ENGINE - TAPPETS ADJ.'.
**05.07.1989** Service defect: 'B - ENGINE CYLINDER HEADS - NO.4 'B' BANK HEAD TIGHTENED DOWN.'.
**05.07.1989** Service defect: 'B - EXHAUST - (2)BELLOWS RENEWED.'.
**05.07.1989** Service defect: 'B - FUEL SYSTEM - FUEL BANJO TIGHTENED.'.
**05.07.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (10)BRUSHES REPL.'.
**05.07.1989** Service defect: 'B - RADIO REPAIR - RADIO REPL.(NO.26898 INSTALLED)'.
**06.07.1989** Service defect: 'UN - NO FAULT FOUND - W/SLIP BELL RINGING 'OK'.'.
**11.07.1989** Service defect: 'UN - EXHAUST - EXHAUST SYSTEM CHECKED.(SMOKING BADLY)'.
**11.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED ELECT.'OK''.
**14.07.1989** Service defect: 'UN - FUEL SYSTEM - FUEL GAUGE RENEWED.'.
**19.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**19.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.

**25.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - DISTRIBUTING VALVE RENEWED.'.
**28.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**28.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE RENEWED.'.
**03.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.& MARKER LIGHT SOCKET REPAIRED.'.
**03.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**03.08.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - BOTH CABLES GREASED.'.
**07.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES).'.
**29.08.1989** Service defect: 'UN - BOGIE - FLANGE LUBRICATOR REPAIRED.'.
**29.08.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.
**29.08.1989** Service defect: 'UN - OTHER BODY REPAIRS - CAB DOOR REPAIRED.'.
**11.09.1989** Service defect: 'TW - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES)'.
**11.09.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - REPAIRED FAULT ALARM.'.
**11.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**11.09.1989** Service defect: 'TW - NO FAULT FOUND - LIGHT CIRCUIT BREAKER TESTED 'OK'.'.
**27.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**29.09.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**29.09.1989** Service defect: 'B - CONTACTOR MISCELLANEOUS - WS1,WS2,WS3 CONTACTS CLEANED.'.
**29.09.1989** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - WIRING FAULT IN GAUGE LIGHTS REPAIRED.'.
**29.09.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.'.
**09.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.& AIR COCK REPL.'.
**10.10.1989** Service defect: 'UN - NO FAULT FOUND - WHEELS CHECKED.'.
**18.10.1989** Service defect: 'UN - BOGIE - REPL. BOGIES.'.
**26.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - STEP LAMPS REPL.'.
**26.10.1989** Service defect: 'UN - NO FAULT FOUND - AUX.CIRCUIT BREAKER TESTED 'OK'.'.
**15.11.1989** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - EARTH FAULT REMOVED.'.
**15.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**16.11.1989** Service defect: 'UN - VIGILANCE - P.E.P. VALVE O/HAULED.'.
**28.11.1989** Service defect: 'UN - COOLING SYSTEM - CHANGED WATER.'.
**28.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**28.11.1989** Service defect: 'UN - NO FAULT FOUND - RADIO & VIGILANCE TESTED 'OK'.'.
**06.12.1989** Service defect: 'UN - COOLING SYSTEM - WATER CHANGED.'.
**06.12.1989** Service defect: 'UN - GENERAL - 'A'SERVICE.'.
**06.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**06.12.1989** Service defect: 'UN - TRACTION MOTOR - BELLOWS REPL.'.
**12.03.1990** Service defect: 'B - AUXILLARY MACHINES - (1)AUX.GENERATOR BRUSH REPLACED.'.
**12.03.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC1 REPAIRED & REPLACED.'.
**12.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (4)GLOBES REPLACED.'.
**12.03.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO.3 'A'BANK HEAD GASKET REPLACED.NO.4 'A'BANK & NO.1 'B' BANK HEADS RETENSIONED.'.
**12.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 11-01-90.SPEEDO READ 893560K/M ON LOCO'.
**12.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (10)MAIN GENERATOR BRUSHES REPLACED.'.
**12.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)TRACTION MOTOR BRUSHES REPLACED, CABLES TIED UP.'.
**12.03.1990** Service defect: 'B - VIGILANCE - VIGILANCE ALARM BELL REPLACED.'.
**28.03.1990** Service defect: 'UN - BOGIE - TORN TRACTION MOTOR BELLOW REPLACED.'.
**28.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 20-03-90 AT 1800HRS.'.
**28.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**28.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHANGED.'.
**03.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**23.04.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED.(BATTERIES WATERED & CHECKED)'.
**23.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 18-04-90.'.
**01.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 26-04-90.'.
**02.07.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - O.O.S.WITH SHARP W/FLANGE.'.
**02.07.1990** Service defect: 'C - ENGINE - ADJ. TIMING CHAIN.'.
**02.07.1990** Service defect: 'C - EXHAUST - (2)BELLOWS RENEWED.'.
**02.07.1990** Service defect: 'C - GENERAL - SPEEDO ON LOCO READ 913211K/M.'.
**02.07.1990** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**02.07.1990** Service defect: 'C - MECHANICAL MAINTENANCE - SOUND WARNING - REPAIRED FRONT HORN.'.
**25.09.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBE PIPE.'.
**25.09.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 920692K/M.'.
**25.09.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - REPAIRED SAND PIPE.'.
**25.09.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**25.09.1990** Service defect: 'B - VIGILANCE - DIODE REPL.'.

**06.02.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - SHARP FLANGE NO.4 D/S.,AXLES TESTED.'.
**06.02.1991** Service defect: 'B - ENGINE - NO.1 (A) AND NO.6 (B) HEADS TIGHTENED'.
**06.02.1991** Service defect: 'B - FUEL SYSTEM - NO. 2 (A) H.P.PIPE TIGHTENED'.
**06.02.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 939811KM.'.
**06.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - T/M BOLSTER PIN REPLACED'.
**06.02.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED,3 BLOCKS REPLACED'.
**24.05.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - 4 GLOBES REPLACED'.
**24.05.1991** Service defect: 'TW - GENERAL - 'A' SERVICE'.
**24.05.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - FRONT BRAKE PIPE REPLACED'.
**24.05.1991** Service defect: 'TW - RADIO REPAIR - SHORT IN RADIO PLUG REPAIRED & RADIO TESTED O.K.'.
**28.05.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED DUE TO STATIC'.
**30.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**30.05.1991** Service defect: 'UN - RADIO REPAIR - RADIO TESTED O.K.'.
**15.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GAUGE LIGHTS REPAIRED'.
**15.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - PAPER CLIP REPLACED'.
**24.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - EARTHS TRACED & RECTIFIED'.
**28.06.1991** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED'.
**02.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT BRAKE PIPE HOSE REPLACED'.
**09.07.1991** Service defect: 'UN - FUEL SYSTEM LINES - DRIBBLE PIPE REPLACED'.
**10.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - EARTH LINK REPLACED & ENGINE TESTED OK.'.
**10.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - DRIVERS SIDE DOOR LOCK REPAIRED'.
**13.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**13.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED'.
**25.07.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - 1 FLANGE LUBRICATOR NOZZLE REPLACED'.
**25.07.1991** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.
**25.07.1991** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR RESET'.
**25.07.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - WHEEL FLANGE LUBRICATOR UNIT REPLACED,6 GLOBES REPLACED'.
**25.07.1991** Service defect: 'B - ENGINE CYLINDER HEADS - NO.5 & NO.2 HEAD GASKETS REPLACED ON 'A' BANK NO.1 HEAD RETENSIONED ON 'B' BANK'.
**25.07.1991** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOW REPLACED'.
**25.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPAIRED'.
**25.07.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED'.
**08.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - 2 WHEEL SETS REPLACED'.
**19.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**21.08.1991** Service defect: 'TS - NO FAULT FOUND - NO FAULT FOUND WITH LOCO SHUTTING DOWN'.
**27.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**28.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS REPAIRED'.
**28.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADER PIPE REPAIRED'.
**28.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**07.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ROTARY VALVE REPLACED'.
**23.09.1991** Service defect: 'TS - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**26.09.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETED **'.
**26.09.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED'.
**30.09.1991** Service defect: 'TS - EXHAUST - EXHAUST BELLOW REPLACED'.
**02.10.1991** Service defect: 'UN - ENGINE WATER LEAK - LOOSE CONNECTION IN FAN COMPARTMENT TIGHTENED A/C WATER LEAK'.
**03.10.1991** Service defect: 'UN - NO FAULT FOUND - TRAIN PIPE PRESSURE TESTED OK.'.
**14.10.1991** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CONTROL EARTH TRACED TO CRANK CASE EXPLOSION SWITCH,WIRING DISCONNECTED & LOCO MEGGERED OK.'.
**24.10.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**24.10.1991** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REPAIRED'.
**06.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**11.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - RAINWATER LEAK AROUND DOOR REPAIRED.'.
**11.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO INSTALLATION COMPLETED.'.
**12.05.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - TRACTION MOTOR BLOWER SWITCH REPLACED. CAUSED FAULT HORN WARNING.'.
**16.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEDDOMETER LIGHT AND PANEL LAMPS REPLACED.'.
**19.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES.'.
**19.05.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK IN PIPE LEADING FROM RADIATOR.'.
**29.05.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**10.06.1992** Service defect: 'UN - COOLING SYSTEM - LOW WATER LEVEL CAUSING FAULT HORN TO SOUND.'.
**10.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE DAMAGE REPAIRED-CAUSED BY DERAILMENT AT ROUND HOUSE.'.
**12.06.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK REPAIRED.'.
**12.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - TWO BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**08.08.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - FLANGE LUBRICATORS REPAIRED.'.
**12.08.1992** Service defect: 'UN - BATTERY MAINTENANCE - ENGINE WOULD NOT START AND PHONE NOT WORK DUE TO FLAT BATTERIES. JUMP STARTED AND RUN TO RECHARGE. VOLT CHECK & OK'.
**29.08.1992** Service defect: 'C - BOGIE - 1 SUSPENSION BOLT REPLACED.'.
**29.08.1992** Service defect: 'C - COOLING SYSTEM - 1 WATER HOSE PIPE REPLACED.'.
**29.08.1992** Service defect: 'C - ENGINE CYLINDER HEADS - NUMBER 1 HEAD B BANK REPLACED WITH NEW GASKET. NUMBER 2 HEADB BANK GASKET REPLACED.'.
**29.08.1992** Service defect: 'C - MECHANICAL EQUIPMENT - 1 FLANGE LUBE NOZZLE REPLACED.'.
**29.08.1992** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND BOX REPAIRED.'.
**29.08.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.09.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**02.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CLOCK WINDER REPAIRED.'.
**21.10.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - HORN REPLACED.'.
**21.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT TRAIN PIPE COCK REPLACED.'.
**21.10.1992** Service defect: 'TW - NO FAULT FOUND - SPEEDOMETER REPORTED JUMPING. CHECKED AND NO FAULT FOUND.'.
**21.10.1992** Service defect: 'TW - OTHER BODY REPAIRS - LEAK IN ROOF REPAIRED.'.
**14.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.11.1992** Service defect: 'B - BOGIE MAINTENANCE - SPRINGS - NUMBER 4 SUSPENSION BEARING BOLTS TIGHTENED.'.
**30.11.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - WATER TEMPERATURE SWITCH SECURED.'.
**30.11.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**30.11.1992** Service defect: 'B - EXHAUST - EXHAUST GASKET TO ONE OF HEADS REPLACED.'.
**30.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND BOX REPAIRED.'.
**30.11.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED. BRAKES ADJUSTED.'.
**03.12.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED SHUTING DOWN FOR NO REASON. NO FAULT FOUND.'.
**29.01.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHTS MODIFICATION CARRIED OUT.'.
**22.02.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - CURRENT LIMITING RELAYS #1 AND #2 ADJUSTED.'.
**22.02.1993** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - GOVERNOR NUMBER 758428 REMOVED. REPLACED WITH GOVERNOR NUMBER 1075429.'.
**02.03.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - ENGINE GOVERNOR REPLACED WITH EX QUEENSLAND GOVERNOR NUMBER 1123285.'.
**10.03.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - CURRENT LIMITING RELAYS 1 & 2 ADJUSTED.'.
**23.03.1993** Service defect: 'UN - NO FAULT FOUND - FIELD DIVERSION FAULT REPORTED. CHECKED AND NO FAULT FOUND.'.
**02.04.1993** Service defect: 'B - COOLING SYSTEM - WATER COUPLING TIGHTENED UNDER TURBOCHARGER.'.
**02.04.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**02.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBE NOZZLES SET TO FLANGES. TRACTION MOTOR BELLOWS REPLACED.'.
**02.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED. PIPES SET TO RAIL.'.
**02.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**10.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED FUMING AND AMPS FAULT. CHECKED AND NO FAULT FOUND.'.
**28.04.1993** Service defect: 'UN - GENERAL - COMMUNICATION BOX LOCK REPAIRED.'.
**28.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - VIGILANCE PENALTY PREVENTION VALVE REPAIRED.'.
**28.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**15.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**15.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**09.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - FLANGE LUBRICATOR REPAIRS CARRIED OUT.'.
**09.06.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.07.1993** Service defect: 'B - ELECT. MISC. - GAUGES & INSTRUMENTS - TWO GLOBES AND FUSE REPLACED IN GAUGE LIGHTS.'.
**13.07.1993** Service defect: 'B - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE ON GFC CAUSING AMPING FAULT REPAIRED.'.
**13.07.1993** Service defect: 'B - MAIN GENERATOR BRUSHES - 9 MAIN GEN BRUSHES.'.
**13.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE PIPE REPLACED. BILGE OIL DRAIN

COCK MOD CARRIED OUT FOR USE AT RAILTON.'.
**13.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 5 SAND HOSES REPLACED. 4 SANDER SOLENOID VALVES REPLACED DUE TO DERAILMENT.'.
**13.07.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**13.07.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 TRACTION MOTOR BRUSHES'.
**14.07.1993** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE ON GFC REPAIRED.'.
**17.07.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - DIMMER POT FOR GAUGE LIGHTS REPLACED.'.
**17.07.1993** Service defect: 'UN - RADIO REPAIR - CUT WIRE REPLACED TO PHONE.'.
**04.08.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT STRIP REPLACED IN GAUGE.'.
**04.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - FIREMANS SIDE SPEEDO CABLE REPLACED.'.
**04.08.1993** Service defect: 'UN - NO FAULT FOUND - VIGILANCE CHECKED O.K.'.
**20.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FUEL GAUGE REPAIRED.'.
**20.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE.'.
**08.09.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT GAUGE LIGHTS REPAIRED.'.
**23.09.1993** Service defect: 'UN - EXHAUST - NEW MODIFIED EXHAUST PIPES FITTED.'.
**31.01.1994** Service defect: 'UN - BATTERY MAINTENANCE - COMPLETE SET OF NEW WIDE PROFILE BATTERIES FITTED.'.
**27.05.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED.'.
**27.05.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE AND CAB LIGHTS REPAIRED.'.
**27.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED.'.
**18.07.1994** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES RECHARGED.'.

### ZC 8

Details: locomotive 'ZC 8 M' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $113400
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** STORED 25.11.94;EX Q.R. 1307
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 10.09.1994 | | |
| A Service Mileage: | 644009 KM | A Service Date: | 10.09.1994 |
| B Service Mileage: | 591814 KM | B Service Date: | 13.05.1993 |
| C Service Mileage: | 624327 KM | C Service Date: | 12.03.1994 |
| US Service Mileage: | 642436 KM | A Service Date: | 08.08.1994 |

**11.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**11.07.1989** Service defect: 'TW - NO FAULT FOUND - AMPS,FIELD DIVERSION & W/SLIP TESTED 'OK'.'.
**12.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED ELECT. & MECH. 'OK'.'.
**18.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (12)LAMPS REPL.'.
**18.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**18.07.1989** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND INJECTOR FITTED.'.
**18.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS REPL.'.
**18.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - SOUND WARNING - HORN REPAIRED.'.
**24.07.1989** Service defect: 'B - AUXILLARY MACHINES - (4) AUX GENERATOR BRUSHES REPL.'.
**24.07.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE HOSE RENEWED.'.
**24.07.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (18)LAMPS REPL.'.
**24.07.1989** Service defect: 'B - EXHAUST - BELLOWS RENEWED.(1 BIG & 1 SMALL)'.
**24.07.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (10)BRUSHES REPL.& BRUSH HOLDER REPL.'.
**24.07.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX & PIPE RENEWED.'.
**24.07.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (3)BRUSHES REPL.'.
**31.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL SAMPLE TAKEN.'.
**01.08.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**09.08.1989** Service defect: 'UN - TRACTION MOTOR EARTH - EARTH FAULT NO.3 & 4 MOTORS.'.
**14.08.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**18.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**18.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**29.08.1989** Service defect: 'UN - ENGINE - HEAD TIGHTENED (BLOWING).'.
**29.08.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.
**29.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 20-12-89.'.
**01.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**22.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**22.05.1990** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED & TESTED OK.'.

**20.09.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBE PIPE.'.
**20.09.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - REPL.SAND PIPE AIR HOSE.'.
**20.09.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**17.01.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**17.01.1991** Service defect: 'C - CONTACTOR MISCELLANEOUS - C.I.R AND F.A.R RELAYS REMOVED AND REPAIRED'.
**17.01.1991** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - WATER TEMP.SWITCHES WIRING REPAIRED'.
**17.01.1991** Service defect: 'C - ENGINE - SET OF INJECTORS REPLACED'.
**17.01.1991** Service defect: 'C - FUEL SYSTEM PUMP - NO.3 [A| BANK FUEL PUMP WASHER REPLACED'.
**17.01.1991** Service defect: 'C - GENERAL - SPEEDO ON LOCO READ 953954KM.'.
**17.01.1991** Service defect: 'C - MECHANICAL EQUIPMENT - BOOST GAUGES RENEWED,GOVERNOR ARM SHORTENED'.
**17.01.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED'.
**06.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,SHARP WHEELS,LUBRICATORS REPAIRED'.
**06.05.1991** Service defect: 'B - FUEL SYSTEM PUMP - FUEL PUMP WASHER REPLACED'.
**06.05.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 972409KM.'.
**06.05.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 4 MAIN GENERATOR BRUSHES REPLACED'.
**06.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND VALVE REPAIRED'.
**06.05.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 10 T/M BRUSHES REPLACED'.
**05.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - F/S SPEEDO REPLACED'.
**06.06.1991** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - LOCO JUMP STARTED,VOLTAGE ADJUSTED'.
**06.06.1991** Service defect: 'TW - GENERAL - SPEEDO ON LOCO READ 976134 KM. ****** A SERVICE ******'.
**12.06.1991** Service defect: 'UN - WHEELSLIP - P.C.1.CHECKED & LOCO TESTED O.K.AT WORKSHOPS,NO WHEELSLIP FAULT FOUND'.
**17.06.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE - REVERSER - REVERSER SEALS & PISTON REPLACED'.
**17.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOCO CHECKED O.K.FOR EARTHS'.
**19.06.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - PISTON 'O' RINGS ON F.D.CONTACTORS REPLACED'.
**20.06.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 978163KM.'.
**20.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - F/S FRONT WIPER ARM REPAIRED'.
**21.06.1991** Service defect: 'TS - NO FAULT FOUND - AMP FAULT FOUND TO BE CAUSED BY ZC 7.'.
**22.06.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK.'.
**28.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - NEGATIVE ON REAR JUMPER SOCKET TERMINAL STRIP REPAIRED'.
**05.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CONTROL EARTHS CLEARED'.
**09.07.1991** Service defect: 'TS - BATTERY MAINTENANCE - LOCO HAD 2 BLOWN BATTERIES REPLACED'.
**11.07.1991** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED & VOLTAGE ADJUSTED'.
**11.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**18.07.1991** Service defect: 'TS - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**20.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO BATTERIES CHARGED OVERNIGHT LOCO STARTED & VOLTAGE TESTED OK.'.
**07.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**07.08.1991** Service defect: 'TW - NO FAULT FOUND - NO FAULT FOUND WITH VIGILANCE'.
**08.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - D/S SPEEDO REPLACED'.
**16.08.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO BATTERIES CHARGED OVERNIGHT'.
**20.09.1991** Service defect: 'B - AUXILLARY MACHINES - FUEL PUMP BRUSHES REPLACED'.
**20.09.1991** Service defect: 'B - BOGIE - D/S TRI MOUNTS CHANGED,BUMP RUBBERS TRAILING END REPLACED'.
**20.09.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - NUMERAL & STEP LIGHTS REPLACED'.
**20.09.1991** Service defect: 'B - ENGINE CYLINDER HEADS - NO.4 'A' BANK & NO.1 'B' BANK HEAD GASKETS REPLACED'.
**20.09.1991** Service defect: 'B - EXHAUST - EXHAUST BELLOW GASKET REPLACED'.
**20.09.1991** Service defect: 'B - FUEL SYSTEM PUMP - NO.5 & NO.3 'B' BANK FUEL PUMP WASHERS TIGHTENED'.
**20.09.1991** Service defect: 'B - MECHANICAL EQUIPMENT - HORN REPAIRED'.
**20.09.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**20.09.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED,DISTRIBUTING VALVE RELAY PISTON CLEANED,ADJUSTER REPAIRED,HAND BRAKE CHAINS SHORTENED'.
**20.09.1991** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - F/S SPEEDO CABLE REPAIRED,CLOCK IN SPEEDO REPAIRED'.
**20.09.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - NO.4 & NO.5 TRACTION MOTOR BRUSHES REPLACED'.
**26.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO STARTED OK.'.
**08.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**08.11.1991** Service defect: 'UN - VIGILANCE - VIGILANCE WARNING BELL REPAIRED'.
**13.11.1991** Service defect: 'TW - BATTERY MAINTENANCE -

LOCO JUMP STARTED & BATTERIES WATERED'.
**13.11.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.
**18.11.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.
**19.11.1991** Service defect: 'UN - RADIO REPAIR - STATIC CONVERTER & RADIO REPLACED'.
**26.11.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**22.04.1992** Service defect: 'UN - 0'.
**08.05.1992** Service defect: 'UN - TRACTION MOTOR FLASHOVER - FLASHOVER DAMAGE, #2 #5 TRACTION MOTORS REPLACED, TEST RUN PROVED OK.'.
**12.05.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL LEAK REPORTED. NO LEAK FOUND.'.
**12.05.1992** Service defect: 'B - RADIO REPAIR - TESTED OK WITH CALL TO EAST TAMAR JUNCTION.'.
**15.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLOURESCENT STRIP REPLACED IN AMPMETER.'.
**21.05.1992** Service defect: 'UN - NO FAULT FOUND - NO FAULTS FOUND.'.
**30.05.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS REPORTED.'.
**08.07.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**08.07.1992** Service defect: 'TW - NO FAULT FOUND - SPEEDOMETER REPORTED NOISY. TESTED AND NO FAULT FOUND. COMPRESSOR GOVERNOR SWITCH REPORTED FAULTY. NO FAULT FOUND.'.
**10.07.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - LOOSE WIRE TO BLOWER MOTOR RELAY REPAIRED.'.
**10.07.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED FAULT IN DYNAMIC BRAKE. NO FAULT FOUND. REPORTED AMP FAULT. NO FAULT FOUND.'.
**10.07.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**24.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HOT PLATE CLAMPS TIGHTENED.'.
**24.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - DRIVERS SIDE SPEEDOMETER CABLE REPAIRED.'.
**08.02.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - ENGINE RUN ON LOAD TANK TO BURN CARBON OUT OF CYLINDER HEADSTHIS LOCO HAD BEEN REPORTED BLOWING SPARKS OUT EXHAUST.'.
**12.02.1993** Service defect: 'UN - FUEL SYSTEM PUMP - NUMBER 4 A BANK FUEL PUMP AND CAM FOLLOWER REPLACED.'.
**07.04.1993** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - EARTH FAULT IN LIGHTING CIRCUIT CLEARED.'.
**10.04.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FIREMANS SIDE HEATER REPAIRED AS IT WAS TRIPPING THE CIRCUITBREAKER.'.
**10.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FUEL GAUGE REPLACED.'.
**10.04.1993** Service defect: 'UN - NO FAULT FOUND - RADIO FAULT REPORTED. CHECKED AND NO FAULT FOUND.'.
**13.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT - 2 FLANGE LUBE PIPES REPLACED. FRONT TRACTION MOTOR ADJUSTER RENEWED.'.
**13.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 4 SANDER HOSES REPLACED. SANDERS MADE OPERATIONAL.'.
**13.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**05.06.1993** Service defect: 'UN - OTHER BODY REPAIRS - BENT HAND RAIL REPAIRED.'.
**19.06.1993** Service defect: 'UN - FUEL SYSTEM - LEAK IN FUEL GAUGE CONNECTION REPAIRED.'.
**25.06.1993** Service defect: 'UN - FUEL SYSTEM INJECTORS - NUMBER 5A INJECTOR AND CAM FOLLOWER REPLACED.'.
**18.09.1993** Service defect: 'UN - GENERAL - FIRE EXTINGUISHER REPLACED.'.
**18.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**18.09.1993** Service defect: 'UN - RADIO REPAIR - PHONE REPAIRS CARRIED OUT.'.
**06.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - DRIVERS SIDE SEAT REPAIRED.'.
**09.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 11 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**12.03.1994** Service defect: 'C - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED.'.
**12.03.1994** Service defect: 'C - ENGINE CYLINDER HEADS - #5 HEAD ON B BANK PULLED DOWN.'.
**12.03.1994** Service defect: 'C - EXHAUST - 6 EXHAUST BELLOWS REPLACED.'.
**12.03.1994** Service defect: 'C - FUEL SYSTEM LINES - #1 B BANK BANJOS REPALACED.#1B HIGH PRESS PIPE TIGHTENED. #4 A BANK BANJOS TIGHTENED.'.
**12.03.1994** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - 2 FAN SHAFT COUPLINGS REPLACED.'.
**12.03.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**16.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**22.03.1994** Service defect: 'UN - ENGINE CRANKSHAFT - ENGINE OVERHEATING. REDUNDANT THERMOSTAT SEALED OFF FROM COOLING CIRCUIT.'.
**22.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT CARRIED OUT ON 18/03/94.'.
**02.04.1994** Service defect: 'UN - COOLING SYSTEM RADIATOR - OVERHEATING. RADIATORS STEAM CLEANED AND TESTED ON LOAD TANK'.
**10.05.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WORN WHEELS TO BE DEALT WITH WHEN LOCO RETURNS TO SHOPS.'.
**10.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DERAILMENT DAMAGED SANDERS AND 2 CRATER BOXES REPAIRED AND REPLACED.'.
**01.06.1994** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR AIR PRESS PIPE REPLACED. LOAD TANK TESTED.'.
**29.06.1994** Service defect: 'UN - ENGINE GOVERNOR -

REPORTED AS SLOW TO AMP. GOVERNOR BLEED SCREW ADJUSTED.'.

**29.07.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT IN GOVERNOR WIRING CLEARED.'.

**04.08.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SPLINE SHAFT REPLACED.'.

**08.08.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AMPS FAULT REPAIRED.'.

**ZC 9**

Details: locomotive 'ZC 9 V' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $116550
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1308
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 19.09.1996 | | |
| A Service Mileage: | 652868 KM | A Service Date: | 13.10.1994 |
| B Service Mileage: | 702188 KM | B Service Date: | 31.05.1996 |
| C Service Mileage: | 639789 KM | C Service Date: | 17.06.1994 |
| US Service Mileage: | 712605 KM | A Service Date: | 19.09.1996 |

**10.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START (FLAT BATTERIES)'.

**12.07.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRICATORS NOZZLES CLEANED.(W/FLANGE 1MM.)'.

**12.07.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (10) LAMPS REPL.'.

**12.07.1989** Service defect: 'B - GENERAL - WATER DRAIN COCK RENEWED.'.

**12.07.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED.'.

**12.07.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED & FEED VALVE RENEWED.'.

**19.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED LIGHTING CIRCUIT BREAKER.'.

**21.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - DISTRIBUTING VALVE RENEWED.'.

**28.07.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.

**28.07.1989** Service defect: 'UN - VIGILANCE - REPAIRED VIGILANCE.'.

**03.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES).'.

**14.08.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.

**23.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.

**23.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**23.08.1989** Service defect: 'TW - NO FAULT FOUND - VIGILANCE TESTED 'OK'.'.

**21.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**22.09.1989** Service defect: 'UN - NO FAULT FOUND - FAULT BELL CHECKED 'OK'.'.

**28.09.1989** Service defect: 'UN - NO FAULT FOUND - TRACTION MOTOR TESTED 'OK'.'.

**04.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**09.10.1989** Service defect: 'UN - NO FAULT FOUND - WATER LEVEL RELAY TESTED 'OK'.'.

**11.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - 200 LITRES OF OIL DRAINED & REFILLED.'.

**11.10.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED FAULT BELL 'OK'.'.

**23.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**23.10.1989** Service defect: 'UN - NO FAULT FOUND - FOUND MISSING JUMPER.'.

**01.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED HOTPLATE.'.

**01.11.1989** Service defect: 'UN - RADIO REPAIR - REPAIRED HANDSET.'.

**08.11.1989** Service defect: 'B - BOGIE - F/LUBE PIPE RENEWED.'.

**08.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (9)LAMPS REPL.'.

**08.11.1989** Service defect: 'B - EXHAUST - (2)BELLOWS REPL.'.

**08.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**08.11.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.

**15.11.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE REPAIRED.'.

**15.11.1989** Service defect: 'UN - GENERAL - SEAT REPAIRED.'.

**15.11.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK STOPPED.'.

**15.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**15.11.1989** Service defect: 'UN - TRACTION MOTOR - BELLOW REPL. (TORN)'.

**06.12.1989** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - F/LUBE NOZZLE REPL.'.

**06.12.1989** Service defect: 'TW - FUEL SYSTEM - REPAIRED FUEL LEAK.(HOSE)'.

**06.12.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**06.12.1989** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - (1)SANDBOX & HOSE REPL.'.

**06.12.1989** Service defect: 'TW - TRACTION MOTOR - BELLOWS REPL.& COVERS REPL.'.

**12.12.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTS ADJ.(OVER CHARGING)'.

**12.03.1990** Service defect: 'B - AUXILLARY MACHINES - (4)BRUSHES REPL.AUX.GEN.'.

**12.03.1990** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR DOOR SWITCH REPL.'.

**12.03.1990** Service defect: 'B - ELECTRICAL

MISCELLANEOUS - (3)LAMPS REPL.&SPRING ADJ.ON F/PUMP MOTOR BRUSH BOX.'.

**12.03.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO.4 'B'BANK &NO.3 'A'BANK HEAD TIGHTENED.'.

**12.03.1990** Service defect: 'B - FUEL SYSTEM INJECTORS - NO.3 'B'BANK INJECTOR CHANGED.'.

**12.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 09-02-90.SPEEDO READ 936804K/M ON LOCO.'.

**12.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (8)BRUSHES REPL.'.

**20.03.1990** Service defect: 'UN - FUEL SYSTEM PUMP - 'B'BANK FUEL PUMP FOLLOWER RENEWED.'.

**29.03.1990** Service defect: 'UN - VIGILANCE - FAULTY VIGILANCE OPERATION DIODE REPLACED IN VIGILANCE CIRCUIT LOCO CHECKED AND TESTED FOR AMPS. OK.'.

**06.04.1990** Service defect: 'TW - GENERAL - *LOCO BOOKED OUT ON 04-04-90 AT 1100HRS.'.

**10.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 06-04-90.'.

**23.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 18-04-90.'.

**26.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VIGILANCE CHECKED & TESTED. EP VALVE COIL FOUND FAULTY, VALVE COIL CHANGED.'.

**26.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK NEAR GOVERNOR STOPPED.'.

**30.04.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.

**30.04.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**27.07.1990** Service defect: 'C - CONTACTOR MISCELLANEOUS - ALL CONTACTS TRUED UP & AUX.CONTACT ON M.C.5 ADJ.'.

**27.07.1990** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.

**27.07.1990** Service defect: 'C - MAIN GENERATOR BRUSHES - (4)BRUSHES REPL.'.

**27.07.1990** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS REPL.'.

**27.07.1990** Service defect: 'C - TRACTION MOTOR BRUSHES - (3)BRUSHES REPL.'.

**15.10.1990** Service defect: 'B - AUXILLARY MACHINES - AUX. GENERATOR BELT CHANGED'.

**15.10.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED'.

**15.10.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 8 LAMPS REPLACED'.

**15.10.1990** Service defect: 'B - FINAL DRIVE - REAR DRIVE SHAFT FITTED'.

**15.10.1990** Service defect: 'B - FUEL SYSTEM LINES - NO.3 H.P.PIPE A/S CHANGED'.

**15.10.1990** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH FITTED'.

**15.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT - FUEL GAUGE CHANGED,T/M BLOWER BELT CHANGED'.

**15.10.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS FITTED'.

**15.10.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - T/M BRUSHES REPLACED (6)'.

**14.01.1991** Service defect: 'B - AUXILLARY MACHINES - 2 AUX.GENERATOR BRUSHES REPLACED'.

**14.01.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - VIG.FOOT PEDAL REPAIRED. (RADIO NO.56866)'.

**14.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 972651KM.'.

**14.01.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 3 MAIN GENERATOR BRUSHES REPLACED'.

**14.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT - T/M BLOWER REPLACED'.

**14.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND VALVE REPLACED'.

**14.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED'.

**03.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.

**03.05.1991** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - A.R. RELAY REPAIRED'.

**03.05.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 8 LAMPS REPLACED'.

**03.05.1991** Service defect: 'B - ENGINE - NO.3 (A) HEAD GASKET REPLACED,NO.3 (B) HEAD TIGHTENED'.

**03.05.1991** Service defect: 'B - FUEL SYSTEM PUMP - FUEL PUMP TAPPETT REPLACED'.

**03.05.1991** Service defect: 'B - GENERAL ACCIDENT - D/S STEP STRAIGHTENED'.

**03.05.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 15 MAIN GENERATOR BRUSHES REPLACED'.

**04.07.1991** Service defect: 'UN - BOGIE - LOCO FITTED WITH NEW BOGIES'.

**05.07.1991** Service defect: 'UN - RADIO REPAIR - FAULTY RADIO REPLACED'.

**10.07.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK.,NO FAULTS LOGGED'.

**12.07.1991** Service defect: 'TS - BATTERY MAINTENANCE - LOCO JUMP STARTED,VOLTAGE TESTED OK.'.

**16.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH LIGHTING CIRCIUT BREAKER'.

**19.07.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - LOCO FITTED WITH 25W GLOBES A/C LIGHTING CIRCIUT BREAKER OPERATING'.

**19.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.

**19.07.1991** Service defect: 'TW - RADIO REPAIR - RADIO TESTED OK.'.

**23.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - SAND BOX TO BE REPLACED AT A LATER DATE'.

**23.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO TESTED OK.'.

**29.07.1991** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE INJECTOR REPLACED'.

**29.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.

**29.07.1991** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REPLACED,2 SAND VALVES REPLACED'.

**31.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.

**03.08.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT TRACED TO RADIO AERIAL,AERIAL REPLACED & LOCO TESTED OK.'.

**15.08.1991** Service defect: 'UN - DRIVER FAULT - AMP PROBLEM CAUSED BY INCORRECTLY FITTED JUMPER

CABLE'.
**21.08.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - 1 FLANGE LUBE NOZZLE REPLACED,AXLES TESTED'.
**21.08.1991** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - WIRING TO WATER LEVEL SWITCH REPLACED'.
**21.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 GLOBES REPLACED'.
**21.08.1991** Service defect: 'B - ENGINE CYLINDER HEADS - PUSH ROD REPLACED ON NO.2 CYLINDER HEAD 'B' BANK'.
**21.08.1991** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK IN RADIATOR COMPARTMENT REPAIRED'.
**21.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPLACED & SANDS CLEARED'.
**21.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED'.
**21.08.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 TRACTION MOTOR BRUSHES REPLACED'.
**26.08.1991** Service defect: 'UN - GENERAL - LOCO CHECKED OK.'.
**17.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DRIVERS SIDE HEATER REPAIRED'.
**27.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETED ****'.
**28.09.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - FOOTREST SECURED'.
**28.09.1991** Service defect: 'UN - VIGILANCE - VIGILANCE PEDAL SECURED'.
**01.11.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH REPLACED'.
**01.11.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER PIPE TO RADIATOR ELEMENTS REPLACED'.
**12.11.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - GOVERNOR WIRING REPAIRED'.
**13.11.1991** Service defect: 'UN - NO FAULT FOUND - REVERSER TESTED OK.'.
**14.11.1991** Service defect: 'UN - NO FAULT FOUND - VIG. OK.'.
**31.01.1992** Service defect: 'TW - BROKEN PIPE - OIL LEAK *C SERVICE COMPLETED*'.
**12.05.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - INDICATOR LIGHT DIODE REPLACED.'.
**05.06.1992** Service defect: 'UN - RADIO REPAIR - FIREMANS SIDE RADIO HANDSET MOVED TO NEW POSITION.'.
**11.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PLUG CLEARED.'.
**17.07.1992** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - LOOSE SAND TRAP BOLTS TIGHTENED.'.
**08.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**08.08.1992** Service defect: 'UN - RADIO REPAIR - RADIO FAULT CAUSED BY LOOSE FUSE HOLDER IN POWER SUPPLY.'.
**11.08.1992** Service defect: 'UN - RADIO REPAIR - PHONE HANDPIECE UNLOCKED AND OK.'.
**19.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**26.08.1992** Service defect: 'UN - RADIO REPAIR - TRANCEIVER REPLACED.'.
**09.09.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 4 HEAD ON A BANK RETENSIONED.'.
**09.09.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**09.09.1992** Service defect: 'B - FUEL SYSTEM LINES - NUMBER 1 B BANK FUEL RAIL BANJO WASHERS REPLACED.'.
**09.09.1992** Service defect: 'B - FUEL SYSTEM PUMP - NUMBERS 2 AND 5 FUEL PUMP DELIVERY WASHERS TIGHTENED ON A BANK.'.
**09.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBRICATORS REPAIRED. TRACTION MOTOR BELLOWS REPLACED.'.
**09.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - CENTRE COUPLING BRACKETS TIGHTENED.'.
**09.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**09.09.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**09.09.1992** Service defect: 'B - NO FAULT FOUND - ELECTRICAL SERVICE SHEET REPORTED NO ADDITIONAL ATTENTION OR PARTS REQUIRED.'.
**18.09.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - MISSING TRIMOUNT SPRING RUBBING PLATES REPLACED.'.
**20.10.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - LEADING TRACTION MOTOR BLOWER BEARINGS REPLACED.'.
**20.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.11.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.11.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED VIGILANCE FAULT. NO FAULT FOUND.'.
**12.12.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**24.12.1992** Service defect: 'UN - FUEL SYSTEM - FUEL FILLER REPLACED ON DRIVERS SIDE.'.
**06.02.1993** Service defect: 'TS - NO FAULT FOUND - A TRACK STOPPAGE OCCURRED DUE TO THIS ENGINE OVERHEATING. HIGH WATER TEMP SWITCHES AND FAN OPERATION CHECKED. NO FAULT'.
**15.02.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**15.02.1993** Service defect: 'B - FUEL SYSTEM LINES - BANJO PIPE TIGHTENED ON B BANK.'.
**15.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED. SANDERS CLEARED.'.
**15.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**15.02.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 TRACTION MOTOR BRUSHES REPLACED.'.
**20.02.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - REPORTED OVERHEATING. RADIATORS CLEANED.'.
**23.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT

SANDING GEAR - CHECK. SANDERS CLEARED.'.
**04.03.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DRIVERS SIDE CAB HEATER REPAIRED.'.
**10.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE DISTRIBUTING VALVE REPLACED.'.
**10.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION DAMAGE. BENT STEP REPAIRED.'.
**13.04.1993** Service defect: 'TW - GENERAL - STOLEN FIRE EXTINGUISHERS REPLACED.'.
**13.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - VANDALISED CAB WINDOWS REPLACED.'.
**22.04.1993** Service defect: 'UN - FUEL SYSTEM LINES - NUMBER 5 & 6 B BANK HIGH PRESSURE PIPES REPLACED.'.
**22.04.1993** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED DUE TO 20
**01.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**01.05.1993** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED.'.
**04.05.1993** Service defect: 'UN - RADIO REPAIR - TRANSCEIVER PLUG REPAIRED.'.
**13.05.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED AS ONLY GETTING 1000 AMPS, AND NO BOOST. CHECKED AND TEST RUN WITH NO FAULTS FOUND.'.
**26.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED MAIN CIRCUIT BREAKER THROWING OUT AND VIG FAULT. CHECKED AND TEST RUN TO ROCHERLEA WITH NO FAULTS FOUND.'.
**28.05.1993** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - CONTROL EARTH FAULT CAUSED TRACK STOPPAGE. LOCO WILL WORK ONITS OWN BUT NOT IN MULTIPLES. DOING SHUNTING AT HOBART AND'.
**28.05.1993** Service defect: 'TS - NO FAULT FOUND - WILL RETURN TO LAUNCESTON FOR FAULT FINDING AT NEXT DUE SERVICE.'.
**02.07.1993** Service defect: 'B - EARTH FAULT MISCELLANEOUS - ANTI SLIP BUTTON SHORT CIRCUIT TO MAIN CONTROLLER REPAIRED.'.
**02.07.1993** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - MC4 AIR LEAK AND LOOSE CONTACT REPAIRED.'.
**02.07.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - AUXILLIARY GEN BRUSH SPRINGS REPAIRED.'.
**02.07.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED. 1 SAND VALVE REPLACED.'.
**02.07.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**17.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**26.08.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. CHECK.'.
**07.09.1993** Service defect: 'TW - ELECTRICAL MISC. AC/DC RELAYS - ENGINE CRANK CASE RELAY ISOLATED.'.
**17.09.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - ***GAUGE LIGHT MODIFICATION CARRIED OUT.*********'.
**17.09.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - BOOST FAULT REPAIRED.'.
**15.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**01.02.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WATERED AND CHARGED.'.
**07.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**07.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED.'.
**15.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER OUTER CABLE SHORTENED.'.
**16.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**16.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**25.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTORS BELLOWS REPLACED.'.
**25.02.1994** Service defect: 'UN - VIGILANCE - VIGILANCE FAULT REPAIRED.'.
**07.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - ONE CRATER BOX COVER REPLACED.'.
**15.03.1994** Service defect: 'UN - STARTER MOTOR - STARTING FAULT REPAIRED.'.
**22.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SPRING IN MC2 REPLACED.'.
**22.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**21.04.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - BOGIE CHANGE, WITH ALL NEW WHEELS.**********'.
**21.04.1994** Service defect: 'UN - TRACTION MOTOR - ALL TRACTION MOTORS ON REPLACEMENT BOGIES REBUILT BY ALPHA. **********'.
**29.04.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER FILTERS REPLACED.'.
**29.04.1994** Service defect: 'UN - EXHAUST - EXHAUST BELLOWS REPLACED.'.
**17.06.1994** Service defect: 'C - CONTACTOR MISCELLANEOUS - REPLACED STARTING AND 3 SETS OF MOTOR CONTACTS. CLEANED PC1, PC2, EFR & AR.'.
**17.06.1994** Service defect: 'C - ENGINE - #2 & #5 B BANK ENGINE COVER RUBBERS REPLACED.'.
**17.06.1994** Service defect: 'C - FUEL SYSTEM PUMP - #3 & #4 A AND B BANK FUEL PUMP WASHERS REPLACED.'.
**17.06.1994** Service defect: 'C - MAIN GENERATOR BRUSHES - 16 MAIN GEN BRUSHES REPLACED. 12 AUX GEN BRUSHES REPLACED.'.
**17.06.1994** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN DRIVE CLUTCH REPAIRED. TRACTION MOTOR BLOWER REPAIRED.'.
**17.06.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED. RADIO ANTENNA REPLACED.'.
**09.08.1994** Service defect: 'UN - BATTERY MAINTENANCE -

BATTERIES WATERED AND CHARGED. VOLTAGE REGULATOR CHECKED.'.

**20.08.1994** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAN MOTOR REPLACED.'.

**26.08.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHARGED.'.

**01.09.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY LEADS REPLACED. BATTERIES CHECKED AND CHARGED.'.

**03.08.1995** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CLOCK REPAIRED'.

### ZC 10

Details: locomotive 'ZC 10 R' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $118050
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1968
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1309 (STORED 3/7/92)
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 06.07.1992 | | |
| B Service Mileage: | 886159 KM | B Service Date: | 27.11.1991 |
| C Service Mileage: | 857622 KM | C Service Date: | 16.08.1990 |
| US Service Mileage: | 1912841 KM | A Service Date: | 30.05.1992 |

**17.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.

**17.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**29.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - NO.1 W/FLANGE DOWN TO GAUGE.'.

**29.08.1989** Service defect: 'B - ENGINE WATER LEAK - R/HAND SIDE W/FILLER DISCONNECTED .(RUSTY PIPES INSIDE BODY)'.

**11.10.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 808364 K/M ON LOCO.'.

**11.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.

**17.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED CAB LIGHTS.'.

**17.10.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 809096 K/M ON LOCO.'.

**01.11.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - REPAIRED CAB LIGHTS.'.

**01.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE. *SPEEDO READ 812480 K/M ON LOCO.'.

**10.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**14.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DISTR.VALVE REPL.'.

**29.11.1989** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.

**29.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHTS REPAIRED.'.

**29.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - W/WIPER REPAIRED.'.

**29.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**29.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.& TOP OF BRAKE HEAD REPL.'.

**29.11.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.

**11.12.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT)'.

**14.12.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPL.'.

**14.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE REPAIRED.'.

**12.03.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - LUBRICATOR REPAIRS.'.

**12.03.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL CONTACTS TRUED.'.

**12.03.1990** Service defect: 'B - ELECTRICAL MISC. JUMPER CABLES - JUMPER REPAIRED.'.

**12.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (4)GLOBES REPLACED.STEP LIGHT SOCKET SECURED.'.

**12.03.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO.2 'B'BANK HEAD RE-TENSIONED.'.

**12.03.1990** Service defect: 'B - GENERAL - LOCO BOOKED OUT ON 08-01-90.SPEEDO READ 821867K/M ON LOCO.'.

**12.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (9)MAIN GENERATOR BRUSHES REPLACED.'.

**12.03.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE REPLACED.'.

**12.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHECKED.'.

**12.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (7)TRACTION MOTOR BRUSHES REPLACED.'.

**10.04.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - CONTACTS ADJUSTED ON WSR 3.'.

**10.04.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - BMR RELAY REPAIRED.'.

**10.04.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (2) GLOBES REPLACED.'.

**10.04.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (6) MAIN GENERATOR BRUSHES REPLACED.'.

**10.04.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**10.04.1990** Service defect: 'B - TRACTION MOTOR - (1) TRACTION MOTOR BELLOW RENEWED.'.

**10.04.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (8) TRACTION MOTOR BRUSHES REPLACED, TRACTION MOTOR COVER REPLACED.'.

**16.08.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.

**16.08.1990** Service defect: 'C - ENGINE - [B| BANK HEAD TIGHTENED,TIMING CHAIN ADJUSTED'.

**16.08.1990** Service defect: 'C - GENERAL - SPEEDO ON LOCO READ 831791KM.'.

**16.08.1990** Service defect: 'C - MECHANICAL EQUIPMENT

SANDING GEAR - 2 SANDERS MADE WORKABLE,2 SAND HOSES REPLACED'.

**20.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.

**20.11.1990** Service defect: 'B - COOLING SYSTEM - WATER HOSE PIPE REPAIRED'.

**20.11.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - CONTACT BLOCK ON A.V.R.REPLACED'.

**20.11.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 LAMPS REPLACED'.

**20.11.1990** Service defect: 'B - FUEL SYSTEM PUMP - NO.3 [A| FUEL PUMP WASHER REPLACED'.

**20.11.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 844391KM.'.

**20.11.1990** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - COUPLING RUBBERS REPLACED'.

**20.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT - 2 EXHAUST BELLOWS REPLACED,1 FLANGE LUBE.PIPE REPAIRED'.

**20.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - COUPLING BOLT REPLACED'.

**20.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND BOX FITTED BACK ON,1 SAND BOX WELDED'.

**20.11.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED'.

**20.11.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 3 T/M BRUSHES REPLACED'.

**13.03.1991** Service defect: 'B - BOGIE - BOLT REPLACED IN BOGIE FRAME'.

**13.03.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.

**13.03.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 855803KM.'.

**13.03.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND PIPES SET TO RAIL,1 SAND VALVE REPLACED,1 SAND BOX WELDED TO FRAME'.

**13.03.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BLOCKS REPLACED'.

**12.06.1991** Service defect: 'TW - FUEL SYSTEM - FUEL GAUGE REPLACED'.

**12.06.1991** Service defect: 'TW - GENERAL - ***** A SERVICE *****'.

**12.06.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BLOCKS REPLACED'.

**12.06.1991** Service defect: 'TW - OTHER BODY REPAIRS - F/S DOOR REPAIRED'.

**17.06.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING TO FRONT WHEEL FLANGE SOLONOID REPAIRED'.

**17.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AMPS TESTED O.K.'.

**28.06.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED & VOLTAGE ADJUSTED'.

**01.07.1991** Service defect: 'UN - NO FAULT FOUND - E.P.VALVE FAULT ATTRIBUTED TO ZC 14'.

**03.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE CHECKED'.

**03.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - D/S CAB LIGHT GLOBE REPLACED'.

**03.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.

**04.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HANDBRAKE MECHANISM LUBRICATED'.

**08.07.1991** Service defect: 'TW - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE TESTED OK.'.

**08.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.

**09.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE TESTED'.

**09.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HAND BRAKE LUBRICATED'.

**12.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED,VOLTAGE TESTED OK.'.

**12.07.1991** Service defect: 'UN - WHEELSLIP - WHEEL SLIP TESTED OK.'.

**18.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHARGED & WATERED'.

**22.07.1991** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR DOOR SWITCH LUBRICATED'.

**22.07.1991** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - I.L.R RELAY MECHANISM FREED FROM STICKING'.

**22.07.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 4 GLOBES REPLACED,CABLES TIED BACK ON ALL TRACTION MOTORS'.

**22.07.1991** Service defect: 'B - ENGINE CYLINDER HEADS - NO.2 HEAD RETENSIONED ON 'B' BANK'.

**22.07.1991** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOW RENEWED'.

**22.07.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 870060 KM.'.

**22.07.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 6 MAIN GENERATOR BRUSHES REPLACED'.

**22.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT - HORNS MODIFIED'.

**22.07.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED & ADJUSTED 1BRAKE ADJUSTER CHANGED'.

**22.07.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 TRACTION MOTOR BRUSHES REPLACED'.

**24.07.1991** Service defect: 'UN - CONTACTOR MISCELLANEOUS - CONTACTS ON G.F.C.1.RENEWED'.

**24.07.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR COMPENSATING NEEDLE ADJUSTED A/C ENGINE ROLLING'.

**24.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE REPLACED'.

**05.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL FLANGE LUBRICATORS REPAIRED'.

**05.08.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - B.M.R. RELAY REPLACED A/C FIELD DIVERSION NOT WORKING'.

**22.08.1991** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE INJECTOR REPLACED'.

**22.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.

**22.08.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BLOCKS REPLACED'.

**28.08.1991** Service defect: 'UN - BOGIE - 4 BUMP RUBBERS REPLACED'.

**28.08.1991** Service defect: 'UN - FUEL SYSTEM - FUEL LEAK REPAIRED'.
**28.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**06.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOCO CONNECTED TO BOGIES & ISSUED'.
**09.09.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO BATTERIES CHARGED A/C RADIO LEFT ON OVER WEEK-END'.
**20.09.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHARGED'.
**20.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE F/S REPAIRED'.
**23.09.1991** Service defect: 'TS - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**26.09.1991** Service defect: 'TW - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**26.09.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.
**02.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REPAIRED'.
**02.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FEED VALVE ADJUSTED'.
**02.10.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH AUX. LIGHTING BREAKER'.
**02.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - SEATS REPLACED'.
**03.10.1991** Service defect: 'TS - ELECTRICAL MISC - FUSES/HOLDERS - LIGHTING CIRCUIT BREAKER REPLACED'.
**11.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE PRESSURE ADJUSTED,BRAKE BLOCK FULCRUM PIN RENEWED'.
**29.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BLOWER REPAIRED'.
**30.10.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETE **'.
**16.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTING VALVE CLEANED.'.
**20.05.1992** Service defect: 'TW - BOGIE - BROKEN BOLT IN BOGIE CONNECTING LINK REPLACED.'.
**30.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE DISTRIBUTOR VALVE FULL OF WATER. WORKED OK WHEN DRAINED.'.

### ZC 11

Details: locomotive 'ZC 11 D' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $113810
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1310
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 25.09.1996 | | |
| SW Service Mileage: | 485895 KM | SW Service Date: | 19.08.1992 |
| A Service Mileage: | 620045 KM | A Service Date: | 03.07.1995 |
| B Service Mileage: | 665149 KM | B Service Date: | 02.04.1996 |
| C Service Mileage: | 577998 KM | C Service Date: | 20.09.1994 |
| US Service Mileage: | 692597 KM | A Service Date: | 25.09.1996 |

**05.07.1989** Service defect: 'UN - BOGIE - NEW TRIMOUNT PLATE FITTED.'.
**05.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - SEAT RENEWED.'.
**13.07.1989** Service defect: 'TW - BATTERY MAINTENANCE - BATTERIES CHARGED.(FLAT).'.
**13.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**13.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**07.09.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**11.09.1989** Service defect: 'TW - BOGIE - CRATER BOX BOLT REPL.(MISSING)'.
**11.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.*SPEEDO READ 617733K/M ON LOCO.'.
**11.09.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - REPAIRED H/BRAKE.'.
**19.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - REPLACED BLOWN BATTERY.'.
**21.09.1989** Service defect: 'UN - GENERAL - SEAT REPAIRED.*SPEEDO READ 618431K/M ON LOCO.'.
**03.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER REPAIRED.'.
**03.10.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 620996 K/M ON LOCO.'.
**03.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**03.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - SEAT REPAIRED (BROKEN)'.
**03.10.1989** Service defect: 'UN - VIGILANCE - REPAIRED VIGILANCE.'.
**11.10.1989** Service defect: 'UN - VIGILANCE - FAULTY DIODE IN VIG.CONTROL BOX REPL.'.
**27.10.1989** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - FRONT & REAR LAMP REPL.'.
**27.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.& REPAIRED HOT PLATE.'.
**27.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**09.11.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 628475 K/M ON LOCO.'.
**09.11.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**23.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED HEATER.'.
**23.11.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**30.11.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (11)LAMPS REPL.'.

**30.11.1989** Service defect: 'C - GENERAL - *BOTTOM GENERATOR BRUSHES TO BE CHECKED NEXT SERVICE.'.
**30.11.1989** Service defect: 'C - MAIN GENERATOR BRUSHES - (8)BRUSHES REPL.'.
**30.11.1989** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - REPAIRED SANDERS.'.
**30.11.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPL.'.
**30.11.1989** Service defect: 'C - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**22.03.1990** Service defect: 'UN - NO FAULT FOUND - CHECKED AMPS & OK.'.
**30.03.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - F/LUBRICATOR REPAIRED. (*NOTE NO.1 W/FLANGE DOWN TO 1MM)'.
**30.03.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - EFR RELAY TAKEN OFF & CLEANED.'.
**30.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.& F/MARKER LIGHT GLASS SECURED.'.
**30.03.1990** Service defect: 'B - EXHAUST - (2)BELLOWS REPL.'.
**30.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (6)BRUSHES REPL.'.
**30.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**30.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**03.04.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED.(FLAT BATTERIES)'.
**23.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 18-04-90.'.
**24.04.1990** Service defect: 'TW - GENERAL - 'A' SERVICE.'.
**10.05.1990** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**21.05.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPLACED TESTED OK.'.
**21.05.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**21.05.1990** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED TESTED OK.'.
**24.05.1990** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADIO CHANGED AERIAL CIRCUIT CHECKED OK. RADIO TESTED IN TRAFFIC CONDITIONS (EAST TAMAR JUCTION) AND FOUND TO BE OK.'.
**25.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**27.05.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - OIL FLOW TO POTENTIOMETER ADJUSTED TO ALLOW AMPS TO BUILD AT A FASTER RATE,TESTED ON LOAD TANK O.K.'.
**31.05.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**18.06.1991** Service defect: 'UN - BATTERY MAINTENANCE - FULL SET OF BATTERIES FITTED'.
**20.06.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**26.06.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH REPLACED'.
**26.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED'.
**28.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - OBSERVERS SIDE HEATER SWITCH REPLACED'.
**05.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - F/S HEATER SWITCH REPLACED'.
**05.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT T/M BLOWER REPLACED'.
**10.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE WORKABLE'.
**13.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**23.08.1991** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WATERED,VOLTAGE ADJUSTED'.
**26.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TELEPHONE INSTALLATION'.
**29.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHTS FITTED WITH 75W. GLOBES A/C DULL LIGHT BOOKING'.
**10.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - NUMERAL LIGHTS REPAIRED'.
**18.09.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT SWITCH REPLACED'.
**20.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**17.10.1991** Service defect: 'UN - GENERAL - LOCO MADE 'B' SERVICE'.
**23.10.1991** Service defect: 'SW - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR DOOR SWITCH REPAIRED'.
**23.10.1991** Service defect: 'SW - ELECTRICAL MISCELLANEOUS - WHEELSLIP ALARM & FIRE WARNING ALARM REPAIRED 10 LIGHT GLOBES REPLACED'.
**23.10.1991** Service defect: 'SW - ENGINE CYLINDER HEADS - NO.2 HEAD GASKET REPLACED ON 'B' BANK'.
**23.10.1991** Service defect: 'SW - GENERAL - ****** B SERVICE COMPLETED ******'.
**23.10.1991** Service defect: 'SW - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**01.11.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH HEADLIGHT'.
**05.11.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.
**20.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPLACED'.
**06.05.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PHONE INSTALLATION.'.
**07.05.1992** Service defect: 'UN - RADIO REPAIR - REPAIRS CARRIED OUT ON PHONE AND UHF RADIO.'.
**12.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO SPEAKER FAULT REPAIRED.'.
**14.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO FAULT REPAIRED.'.
**15.05.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - RADIATOR LEAK REPAIRED.'.
**09.06.1992** Service defect: 'C - MECHANICAL EQUIPMENT - ONE FLANGE LUBE NOZZLE REPLACED. BLOWER AIR GAUGES INSTALLED IN CAB.'.
**09.06.1992** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - FIVE BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.
**13.08.1992** Service defect: 'UN - OTHER BODY REPAIRS - BODY WORK PAINTED IN NEW AN TASRAIL

COLOURS.'.
**19.08.1992** Service defect: 'SW - BOGIE - BOGIES CHANGED AND PAINTED.'.
**19.08.1992** Service defect: 'SW - MECHANICAL MAINTENANCE - SPEEDOMETER - FIREMANS SIDE SPEEDOMETER REPLACED.'.
**27.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED.'.
**27.08.1992** Service defect: 'UN - RADIO REPAIR - PHONE REPROGRAMMED.'.
**01.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW HAD BEEN PUSHED OUT. WINDOW RE-FITTED.'.
**24.09.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB FANS REPAIRED.'.
**24.09.1992** Service defect: 'UN - GENERAL - FIRE EXTINGUISHER REPLACED.'.
**24.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDANT BRAKE REPAIRS CARRIED OUT.'.
**29.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE. SAND PIPES ALIGNED.'.
**15.10.1992** Service defect: 'TS - BOGIE MAINTENANCE - WHEELS - NUMBER 1 WHEEL SET REPLACED DUE TO AXLE BEARING FAILURE.'.
**15.10.1992** Service defect: 'TS - FUEL SYSTEM LINES - 1 HIGH PRESSURE FUEL PIPE REPLACED.'.
**15.10.1992** Service defect: 'TS - LUBRICATING SYSTEM - OIL COOLER FLANGE O RINGS REPLACED.'.
**19.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BEARINGS REPLACED.'.
**26.10.1992** Service defect: 'TW - FUEL SYSTEM - HOLE IN FUEL TANK PLUGGED WITH PLATE AND GASKET.'.
**14.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**28.11.1992** Service defect: 'UN - NO FAULT FOUND - RADIO FAULT REPORTED. RADIO TESTED AND NO FAULT FOUND.'.
**23.12.1992** Service defect: 'TW - ENGINE CYLINDER HEADS - CYLINDER HEAD GASKET REPLACED ON B BANK NUMBER 1.'.
**12.01.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.02.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - NUMBER 3 MC CONTACTS REPLACED.'.
**03.02.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 1 LIGHT GLOBE REPLACED.'.
**03.02.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**03.02.1993** Service defect: 'B - FUEL SYSTEM LINES - 2 FUEL PIPES TIGHTENED ON A BANK.'.
**03.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED AND SANDBOX TIGHTENED.'.
**03.02.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**03.02.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 TRACTION MOTOR BRUSHES REPLACED.'.
**18.02.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHT GLOBES REPLACED ON FIREMANS SIDE.'.
**18.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - WHISTLES RELOCATED TO CAB ROOF. CAB SEAT REPORTED AS TOO HARD. TO BE REPLACED AT NEXT B SERV'.
**18.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**18.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - FIREMANS SIDE SPEEDOMETER CABLE REPLACED.'.
**26.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - BOTH CAB SEATS REPLACED. AIR LEAK REPAIRED ON REVERSER SOLENOID.'.
**11.03.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - REVERSER CONTACT SPRING REPLACED.'.
**30.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**31.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER REPLACED DUE TO BROKEN CLOCK.'.
**07.04.1993** Service defect: 'TW - ELECTRICAL MAINTENANCE - REVERSER - REVERSER CONTACTS AND SPRINGS REPLACED.'.
**16.04.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FIELD DIVERSION CONTACTS RESET.'.
**06.05.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 5 LIGHTS REPLACED.'.
**06.05.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**06.05.1993** Service defect: 'B - FUEL SYSTEM LINES - HIGH PRESSURE PIPE TIGHTENED ON A BANK.'.
**06.05.1993** Service defect: 'B - MAIN GENERATOR BRUSHES - 5 SETS OF MAIN GENERATOR BRUSHES REPLACED.'.
**06.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT - WIND SCREEN WIPER REPAIRED ON FIREMANS SIDE.'.
**06.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - BOLTS TIGHTENED UNDER CENTRE COUPLING YOKE.'.
**06.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**06.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**06.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED ON FIREMANS SIDE.'.
**08.05.1993** Service defect: 'TS - NO FAULT FOUND - TRACK STOPPAGE DUE TO REPORTED AMP FAULT. CHECKED AND NO FAULT FOUND.'.
**26.05.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLATS ON WHEEL SET NUMBER 1 THOUGHT TO NOT BE BAD ENOUGH TO REQUIRE WHEEL SET CHANGE.'.
**26.05.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**26.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**29.05.1993** Service defect: 'UN - RADIO REPAIR - WIRING TO RADIO SPEAKER REPAIRED.'.
**18.06.1993** Service defect: 'UN - BOGIE MAINTENANCE -

WHEELS - FLATS ON SOME WHEELS. BOGIES REVERSED TO COMPENSATE.'.
**12.07.1993** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - TRIMOUNT SPRING REPAIRS CARRIED OUT.'.
**12.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - STOP COCKS FITTED TO BILGE DRAINS FOR WORKING OUT OF GOLIATH CEMENT.'.
**12.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**31.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.08.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**30.08.1993** Service defect: 'B - EXHAUST - 3 EXHAUST BELLOWS REPLACED.'.
**30.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FIREMANS SIDE WINDOW WIPER REPAIRED.'.
**30.08.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**30.08.1993** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED.'.
**30.08.1993** Service defect: 'B - RADIO REPAIR - FAX MACHINE INSTALLED.'.
**16.09.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE FAULT COULD NOT BE TRACED. ALLOWED BACK INTO SERVICE WITH NOTICE ON DYNAMIC GAUGE 'DO NOT USE'.'.
**16.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB FAN FELL OFF WALL. REFASTENED IN PLACE.'.
**16.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**16.09.1993** Service defect: 'UN - RADIO REPAIR - FAX MACHINE BLEW UP. TO BE REPLACED BY MOTOROLLA AT RAILTON.'.
**22.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED.'.
**21.02.1994** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP FOLLOWER NUMBER 6A REPLACED.'.
**21.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 9 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**06.05.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATER REPAIRED. CAB DOOR LOCK REPAIRED.'.
**06.05.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER FILTERS CHECKED.'.
**06.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BELLOWS CHECKED.'.
**09.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE PUMP REPLACED.'.
**09.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED.'.
**11.05.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL MC CONTACTS CLEANED. MARKER LIGHT REPAIRED.'.
**11.05.1994** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE PIPE REPLACED.'.
**11.05.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. 2 BUMPER RUBBERS REPLACED.'.
**11.05.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 TRACTION MOTOR BRUSHES REPLACED.'.
**31.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN CAB WINDOW AND ARM REST REPAIRED.'.
**05.07.1994** Service defect: 'UN - AUXILLARY MACHINES - AUXILLIARY GENERATOR MOUNTING BOLTS LOOSE, STOPPING NORMAL BATTERY CHARGING. REPOSITIONED AND BOLTS TIGHTENED.'.
**25.08.1994** Service defect: 'UN - EXHAUST - FIRE CAUSED BY EXHAUST LEAK. EXHAUST REPAIRED.'.
**25.08.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**25.08.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED WHEELSLIP FAULT CHECKED AND NO FAULT FOUND.'.
**25.08.1994** Service defect: 'UN - OTHER BODY REPAIRS - CAB DOOR REPAIRED. CAB SEATS REPAIRED.'.
**29.10.1994** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR BRUSH BOX REPLACED ON TRAC MOT NUMBER 3.'.

**ZC 12**

Details: locomotive 'ZC 12 M' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1311;NOT YET IN TRAFFIC
**BSG Code:** LTAV

**ZC 13**

Details: locomotive 'ZC 13 V' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN

**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** W/O 30.06.91;EX Q.R. 1312
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 05.10.1991 | | |
| US Service Mileage: | 1857 KM | A Service Date: | 05.10.1991 |

**05.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER REPLACED'.

**ZC 14**

Details: locomotive 'ZC 14 H' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $121670
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1967
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** STORED 20.10.95;EX Q.R. 1313
**BSG Code:** LTAV

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|---|---|---|---|
| Return to Service Date: | 20.10.1995 | | |
| A Service Mileage: | 526410 KM | A Service Date: | 30.09.1994 |
| B Service Mileage: | 559818 KM | B Service Date: | 20.10.1995 |
| C Service Mileage: | 468006 KM | C Service Date: | 26.04.1993 |
| US Service Mileage: | 559818 KM | A Service Date: | 12.09.1995 |

**06.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEPENDENT BRAKE HEAD TIGHTENED.'.
**11.07.1989** Service defect: 'UN - ENGINE - CAM FOLLOWER ON NO.6 'B'BANK RENEWED.'.
**13.07.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 800682K/M ON LOCO.'.
**13.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - REPAIRED WIPERS.'.
**13.07.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**28.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**28.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**28.07.1989** Service defect: 'TW - MECHANICAL EQUIPMENT COUPLER - BOLTS REPL.IN REAR COUPLING.'.
**28.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - (5)BLOCKS REPL. &BRAKES ADJ.'.
**28.07.1989** Service defect: 'TW - TRACTION MOTOR - COVER REPL.'.
**02.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**02.08.1989** Service defect: 'UN - GENERAL - *SPEEDO READ 801938 K/M ON LOCO.'.
**23.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.& STEP LIGHT SOCKET REPAIRED.'.
**23.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**23.08.1989** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**23.08.1989** Service defect: 'TW - TRACTION MOTOR - BLOWER WELDED.'.
**23.08.1989** Service defect: 'TW - WHEELSLIP - W/SLIP BUZZER CHECKED 'OK'.'.
**26.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**11.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**11.10.1989** Service defect: 'C - FUEL SYSTEM PUMP - NO.6 'A'BANK F/PUMP ROLLER RENEWED.'.
**11.10.1989** Service defect: 'C - MECHANICAL EQUIPMENT - SEVERAL SPLIT PINS REPL.ON CONNECTING ROD NUTS.'.
**11.10.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - (5)BLOCKS REPL.'.
**11.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES CHANGED (FLAT)'.
**11.10.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED FOR FLATS 'OK'.'.
**18.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES).'.
**18.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**20.10.1989** Service defect: 'TS - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**20.10.1989** Service defect: 'TS - LUBRICATING SYSTEM - PARTIAL OIL CHANGE (200 LIRES).'.
**10.11.1989** Service defect: 'UN - GENERAL - TO HAVE A TEST RUN.(CHECK FOR F/DIVERSION & AMPS).'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 12-12-89.'.
**13.03.1990** Service defect: 'B - AUXILLARY MACHINES - NEW SET OF BRUSHES FITTED TO AUX.GEN.'.
**13.03.1990** Service defect: 'B - DYNAMIC BRAKE - GREASE NIPPLE IN D/BRAKE BLOWER MOTOR REPL.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**13.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 02-02-90.SPEEDO READ 819958K/M.'.
**13.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - NEW SET OF BRUSHES FITTED.'.
**01.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 24-04-90.'.
**28.11.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**28.11.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 860765KM.'.
**28.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT - EXHAUST BELLOW REPAIRED,FRONT T/M BLOWER BOLTS TIGHTENED, CAB DOOR D/S WIPER REPAIRED'.
**28.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - L/H FRONT SAND TRAP REPLACED'.
**08.05.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,2 LUBRICATORS REPAIRED'.
**08.05.1991** Service defect: 'C - FUEL SYSTEM LINES - FUEL DRIBBLE PIPES REPLACED'.
**08.05.1991** Service defect: 'C - LUBRICATING SYSTEM - OIL

LEAKS REPAIRED'.
**08.05.1991** Service defect: 'C - MECHANICAL EQUIPMENT - 3 EXHAUST BELLOWS REPLACED'.
**08.05.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED'.
**03.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**05.06.1991** Service defect: 'TW - - VIG. TESTED O.K.'.
**05.06.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - 4 GLOBES REPLACED'.
**05.06.1991** Service defect: 'TW - EXHAUST - LOCO TESTED O.K.FOR FUMES'.
**05.06.1991** Service defect: 'TW - GENERAL - 'A SERVICE".
**15.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - F/S FLOURO.CAB LIGHT REPLACED'.
**19.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - HIGH WATER TEMPERATURE SWITCH REPLACED'.
**28.06.1991** Service defect: 'UN - OTHER BODY REPAIRS - D/S ARMREST SECURED'.
**28.06.1991** Service defect: 'UN - D/S WINDOW TO BE REPLACED'.
**01.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMPRESSOR UNLOADER ADJUSTED,E.P.VALVE AIR STEM REPLACED'.
**03.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADER VALVE ADJUSTED'.
**09.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH MAIN RESERVOIR OVERCHARGING'.
**10.07.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - MAIN RESERVOIR GAUGE REPLACED'.
**10.07.1991** Service defect: 'TS - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR GOVERNOR ADJUSTED'.
**13.07.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES TESTED OK,APPEARS THEY WERE ISOLATED BY DRIVERS FOR NO REASON'.
**19.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**19.07.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - DISTRIBUTION VALVE REPLACED'.
**23.07.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE SECURED A/C MOVING IN RECEPTICLE'.
**09.08.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - M.C.1. REPAIRED'.
**09.08.1991** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - W.L.R. RELAY CONTACT BLOCK REPAIRED'.
**09.08.1991** Service defect: 'B - ELECTRICAL MISC. GROUND RELAY - EARTH FAULT TRACED TO OLD ANTI SLIP WIRING,REPAIRED & TESTEDOK.'.
**09.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 3 GLOBES REPLACED'.
**09.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT - WINDSCREEN WIPER REPAIRED'.
**09.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED'.
**27.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETED ****'.
**30.09.1991** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING TO D/S SANDING PEDAL REPAIRED'.
**02.10.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.
**24.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - SIDE WINDOW REPLACED'.
**26.10.1991** Service defect: 'UN - GENERAL - LOCO CHECKED OK.'.
**08.11.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPAIRED'.
**18.11.1991** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED OK.,SPEEDO TESTED OK.'.
**18.11.1991** Service defect: 'UN - OTHER BODY REPAIRS - DOOR PANEL SECURED'.
**25.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**04.05.1992** Service defect: 'UN - FUEL SYSTEM - greater than20
**06.05.1992** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP TIMING OUT ON A BANK, ADJUSTED.'.
**06.05.1992** Service defect: 'UN - LUBRICATING SYSTEM - LOOSE OIL PIPE FITTING ALLOWED ENGINE SUMP TO EMPTY OUT.'.
**05.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - STICKING MAIN RESERVOIR GAUGE REPAIRED.'.
**05.06.1992** Service defect: 'UN - RADIO REPAIR - PHONE POWER SUPPLY REPLACED.'.
**11.06.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HAND BRAKE SWITCH REPLACED.'.
**11.06.1992** Service defect: 'UN - FUEL SYSTEM PUMP - B SIDE FUEL PUMPS RETIMED TO STOP EXCESSIVE SMOKING ON THAT BANK.'.
**23.06.1992** Service defect: 'UN - FUEL SYSTEM PUMP - ALLL FUEL PUMPS CHANGED ON B BANK.'.
**23.06.1992** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGE DUE TO greater than20
**08.07.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED. RADIO HANDSET CHECKED AND OK.'.
**08.07.1992** Service defect: 'UN - WHEELSLIP - WHEEL SLIP BELL ADJUSTED. WHEEL SLIP INDICATOR LAMPS REPLACED.'.
**23.07.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLOURO STRIP LIGHT IN FLOW GAUGE FAULTY. GAUGE REPLACED'.
**23.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REVERSER LUBRICATED.'.
**31.07.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION OF AXLES CARRIED OUT.'.
**31.07.1992** Service defect: 'B - COOLING SYSTEM - WATER RAIL HOSE TIGHTENED. 1 WATER GAUGE GLASS REPLACED. TAP ON WATER GAUGE GLASS REPLACED.'.
**31.07.1992** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - DRIVERS SIDE DYNAMIC BRAKE AND AMMETER LEADS RENEWED. VOLTAGE REGULATOR WIRING REPAIRED.'.
**31.07.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 6 A BANK CYLINDER HEAD GASKET REPLACED.'.
**31.07.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL

LEAK ABOVE FILTERS REPAIRED.'.

**31.07.1992** Service defect: 'B - MAIN GENERATOR BRUSHES - 10 MAIN GENERATOR BRUSHES REPLACED.'.

**31.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FAN BELT RENEWED.'.

**31.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND HOSES REPLACED AND SANDERS MADE WORKABLE.'.

**31.07.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**31.07.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 12 TRACTION MOTOR BRUSHES REPLACED.'.

**10.08.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED TO HAVE FIELD DIVERSION FAULT. NO FAULT FOUND. THISFAULT ONLY EVIDENT WHEN COUPLED TO ZC20 WHICH HAD GOV FAULT.'.

**03.09.1992** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.

**03.09.1992** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - NOT CHARGING BATTERIES PROPERLY. VOLTAGE REGULATOR ADJUSTED.'.

**03.09.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - FIREMANS SIDE SEAT ARMRESTS REPAIRED.'.

**18.09.1992** Service defect: 'UN - BOGIE MAINTENANCE - SPRINGS - TRIMOUNT SPRINGS REPAIRED. BOGIE LINK BUSH REPLACED.'.

**19.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLING KNUCKLE REPLACED.'.

**19.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPAIRED.'.

**19.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS AROUND DOORS STOPPED.'.

**22.09.1992** Service defect: 'UN - RADIO REPAIR - TRANSCEIVER REPLACED.'.

**05.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**31.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - GOVERNOR CONDUIT WIRING REPLACED.'.

**07.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**30.11.1992** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**07.12.1992** Service defect: 'B - ENGINE CYLINDER HEADS - CYLINDER HEAD RELIEF VALVE REPLACED.'.

**07.12.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**07.12.1992** Service defect: 'B - EXHAUST - EXHAUST BELLOWS REPLACED.'.

**07.12.1992** Service defect: 'B - FUEL SYSTEM LINES - BANJO PIPE REPLACED.'.

**07.12.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED AND CLEARED.'.

**07.12.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.

**12.12.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.

**24.12.1992** Service defect: 'UN - AUXILLARY MACHINES - AUXILLIARY GENERATOR BELT TIGHTENED.'.

**24.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**10.02.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES OVERCHARGING. FEED VALVE REPLACED.'.

**18.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DRIVERS SIDE FRONT SAND TRAP REPAIRED.'.

**26.02.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED FAULT HORN SOUNDING, DROPPING AMPS, SURGING WHEN COUPLED TO ZB5 & ZB10. CIRCUIT MEGGERED NO FAULT. TEST RUN.'.

**03.03.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - FLANGE LUBRICATORS PRIMED.'.

**26.04.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**26.04.1993** Service defect: 'C - FUEL SYSTEM LINES - NUMBER 3 & 5 A BANK HIGH PRESSURE PIPES TIGHTENED.'.

**26.04.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED.'.

**26.04.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 12 BRAKE BLOCKS REPLACED. BRAKES ADJUSTED.'.

**04.05.1993** Service defect: 'TS - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPLACED.'.

**04.05.1993** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - TRACK STOPPAGE ON 29/04/93 CAUSED BY BROKEN WIRE IN STARTER MOTOR CIRCUIT. FITTERS REPAIRED OUT ON TRACK.'.

**04.05.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**08.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDBOX REPAIRS CARRIED OUT.'.

**08.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED RADIO FAULT. CHECKED AND NO FAULT FOUND.'.

**17.05.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - CURRENT LIMITING RELAYS 1 AND 2 RESET.'.

**23.06.1993** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - REVERSER SEALS REPAIRED.'.

**03.07.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEADLIGHT SWITCH REPLACED.'.

**14.07.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED BOOST FAILURE. TURNED OUT FAULT WAS ON ANOTHER LOCONOT THIS ONE.'.

**27.07.1993** Service defect: 'TS - NO FAULT FOUND - TRACK STOPPAGE 22/07/93 DUE TO EARTH FAULT. CHECKED AND NO FAULT FOUND.'.

**27.07.1993** Service defect: 'TS - WHEELSLIP - WHEELSLIP BUZZER REPLACED.'.

**27.07.1993** Service defect: 'TW - ELECTRICAL MISC. JUMPER CABLES - JUMPER SOCKET REPAIRED.'.

**05.08.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - NUMBER 1 AND 6 WHEELSET REPLACED DUE TO SHARP FLANGES.'.

**05.08.1993** Service defect: 'UN - TRACTION MOTOR - NUMBER 3 AND 4 TRACTION MOTORS REPLACED.'.

**20.08.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**20.08.1993** Service defect: 'B - EXHAUST - EXHAUST BELLOW REPLACED.'.

**20.08.1993** Service defect: 'B - LUBRICATING SYSTEM - OIL FILTERS REPLACED.'.
**20.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**06.09.1993** Service defect: 'TS - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED IN LOAD REGULATOR WIRING.'.
**06.09.1993** Service defect: 'TS - LUBRICATING SYSTEM - COLLAPSED OIL STRAINER REPLACED.'.
**13.09.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - SHORTED WIRES IN STARTING CIRCUIT REPAIRED.'.
**13.09.1993** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.
**17.09.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING REPAIRED TO JUMPER SOCKET.'.
**01.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX BRACKET WELDED.'.
**01.12.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**01.12.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS AND ONE BRAKE BOLT REPLACED AND ADJUSTED.'.
**01.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**01.03.1994** Service defect: 'TW - RADIO REPAIR - RADIO HANDSET REPLACED.'.
**10.03.1994** Service defect: 'UN - BOGIE - CRATER BOXES AND SAND VALVES REPLACED DUE TO DERAILMENT DAMAGE.'.
**22.03.1994** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR #5 REPLACED.'.
**27.04.1994** Service defect: 'UN - BATTERY MAINTENANCE - 1 BATTERY REPLACED DUE TO HOLE IN CASING.'.
**27.04.1994** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.**********'.
**27.04.1994** Service defect: 'UN - RADIO REPAIR - PHONE TRANSCEIVER REPAIRED.'.
**09.05.1994** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH ADJUSTED.'.
**21.05.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT CLEARED IN DYNAMIC BRAKE.'.
**21.05.1994** Service defect: 'UN - TRACTION MOTOR - #4 TRACTION MOTOR REPLACED.********** #1 & #6 TRACTION MOTORS CLEANED.'.
**28.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJ'.
**29.06.1994** Service defect: 'A - MECHANICAL EQUIPMENT - TRACTION MOTOR BELLOWS REPAIRED.'.
**29.07.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGERS REPLACED DUE TO FILTER FIRE.'.
**01.08.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC? REPAIRED. VOLTAGE ADJUSTED.'.
**01.08.1994** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - BOTH TURBOCHARGERS REPLACED DUE TO FILTER FIRE DAMAGE. BOTH TURBO'S HAD BEEN OVERHAULED.**********'.
**01.08.1994** Service defect: 'B - MAIN GENERATOR - MAIN GENERATOR AND AUXILLIARY GEN V RINGS CLEANED.'.
**01.08.1994** Service defect: 'B - MECHANICAL EQUIPMENT - 2 BOLTS IN OIL BOX REPLACED.'.
**01.08.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED. 1 SANDER VALVE REPLACED.'.
**19.08.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - CENTRE COUPLING REPAIRS CARRIED OUT.'.

### ZC 15

Details: locomotive 'ZC 15 Q' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $116840
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1968
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** STORED 05.04.93;EX Q.R. 1314
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 27.03.1993 | | |
| B Service Mileage: | 876391 KM | B Service Date: | 02.08.1991 |
| C Service Mileage: | 832868 KM | C Service Date: | 01.10.1990 |
| US Service Mileage: | 387239 KM | A Service Date: | 27.03.1993 |

**03.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START (FLAT BATTERIES.)'.
**03.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - OUTER CABLE ADJ.'.
**11.07.1989** Service defect: 'TW - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES.)'.
**11.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**11.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**11.07.1989** Service defect: 'TW - RADIO REPAIR - RADIO REPL.'.
**14.07.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.
**20.07.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**20.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - DOOR SEALS CHECKED.'.
**15.08.1989** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - BECAUSE OF FUEL DILUTION GOV.BUTTON CAME OUT CAUSING ENGINE TO SHUT DOWN DROPPING AMPS.'.
**15.08.1989** Service defect: 'TS - FUEL SYSTEM - FUEL DILUTION 204 LITRES OF SUMP OIL PUMPED OUT.'.

**15.08.1989** Service defect: 'TS - GENERAL - 'A'SERVICE.'.
**23.08.1989** Service defect: 'UN - FUEL SYSTEM INJECTORS - SET OF INJECTORS REPL.'.
**23.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**25.08.1989** Service defect: 'B - BATTERY MAINTENANCE - BATTERIES CHECKED.(EARTH FAULT).'.
**25.08.1989** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - COMPRESSOR CUT OUT VALVE REPAIRED.'.
**25.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**25.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - W/FLANGE LUBRICATOR UNIT REPL.'.
**11.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**13.09.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.
**13.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED.'.
**13.09.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**02.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.'.
**02.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**02.10.1989** Service defect: 'TW - RADIO REPAIR - RADIO RENEWED.'.
**27.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL CHANGED.'.
**08.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**28.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - REPAIRED WIRING ON FDC1 & GFC1.'.
**12.12.1989** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTS ADJ.'.
**12.12.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**12.12.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**12.12.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**15.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**15.12.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**12.03.1990** Service defect: 'TS - GENERAL - *LOCO BOOKED OUT ON 20-12-89.'.
**13.03.1990** Service defect: 'B - AUXILLARY MACHINES - (1)SET OF BRUSHES REPL.IN AUX.GEN.'.
**13.03.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - NO.2 W/FLANGE DOWN TO GAUGE.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - (2)LAMPS REPL.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REPL.NUMEROUS LAMPS.'.
**13.03.1990** Service defect: 'B - ENGINE - REPL.CAM FOLLOWER,TIMING CHAIN ADJ.'.
**13.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 15-02-90.SPEEDO READ 808105K/M.'.
**13.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (7)SETS OF BRUSHES REPL.'.
**13.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**13.03.1990** Service defect: 'B - RADIO REPAIR - REPL.FAULTY RADIO.'.
**13.03.1990** Service defect: 'B - VIGILANCE - REPAIRED EMERG.VIG.VALVE.'.
**13.03.1990** Service defect: 'TW - GENERAL - (A)SERVICE.'.
**20.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**20.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - GAUGE LIGHT REPLACED.'.
**26.03.1990** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - REPLACED VOLTAGE REGULATOR.'.
**30.03.1990** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - LIGHT REPL.IN DYN BRAKE GAUGE.'.
**30.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**30.03.1990** Service defect: 'UN - RADIO REPAIR - RADIO RENEWED.'.
**03.04.1990** Service defect: 'UN - RADIO REPAIR - RADIO CHANGED & TESTED 'OK'.'.
**02.07.1990** Service defect: 'B - FUEL SYSTEM - REPLACED FUEL GAUGE F/SIDE.'.
**02.07.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - RENEWED BRAKE HEAD HANDLES (BOTH SIDES).'.
**02.07.1990** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - REPAIRED SPEEDO F/SIDE.'.
**01.10.1990** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - (2)SAND PIPES RENEWED.'.
**01.10.1990** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS REPL.'.
**24.01.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - CAB FANS REPAIRED (RADIO NO.27016)'.
**24.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 850482KM.'.
**24.01.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - FULL SET GENERATOR BRUSHES'.
**24.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT - EXHAUST BELLOW REPLACED'.
**24.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED'.
**24.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED'.
**17.04.1991** Service defect: 'B - COOLING SYSTEM RADIATOR - 2 RADIATOR POCKETS CHANGED'.
**17.04.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 861337KM.'.
**17.04.1991** Service defect: 'B - MECHANICAL EQUIPMENT - EXHAUST BELLOW'.
**17.04.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**17.04.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED'.
**07.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ROOF LIGHTS RECONNECTED'.
**07.06.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BLOCKS REPLACED'.
**18.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT D/S WINDSCREEN WIPER REPAIRED'.
**18.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT

SANDING GEAR - FRONT SAND VALVE REPLACED'.
**22.06.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL PIPE NEAR GOV.REPAIRED'.
**27.06.1991** Service defect: 'UN - GENERAL - ***** A SERVICE ****'.
**27.06.1991** Service defect: 'UN - TRACTION MOTOR EARTH - CABLE CLAMP BROKEN ON NO.1 TRACTION MOTOR REPLACED, RUBBED CABLE ON NO.1 TRACTION MOTOR REPAIRED'.
**02.08.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**02.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - GAUGE LIGHT DIMMER REPLACED,HEATER SWITCH REPLACED'.
**02.08.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 20 MAIN GENERATOR BRUSHES REPLACED'.
**02.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT - WIPER REPAIRED'.
**02.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 3 SANDERS REPAIRED'.
**02.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED & PIN REPLACED'.
**02.08.1991** Service defect: 'B - TRACTION MOTOR EARTH - NO.1 TRACTION MOTOR REPLACED A/C LOW READINGS'.
**02.08.1991** Service defect: 'B - TRACTION MOTOR THROWING SOLDER - NO.6 TRACTION MOTOR REPLACED A/C THROWING SOLDER FROM BRUSH BOX CONNECTION'.
**05.08.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO BATTERIES CHARGED'.
**09.08.1991** Service defect: 'TS - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.
**09.08.1991** Service defect: 'TS - GENERAL - **** A SERVICE COMPLETED ****'.
**19.08.1991** Service defect: 'TS - FUEL SYSTEM - LEAK IN FUEL TANK TEMPORARILY REPAIRED'.
**21.08.1991** Service defect: 'UN - FUEL SYSTEM - LOCO SENT INTO TRAFFIC TO USE UP FUEL IN FUEL TANK A/C LEAKS'.
**24.09.1991** Service defect: 'UN - FUEL SYSTEM - FUEL TANK REPAIRED'.
**27.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED & TESTED OK.'.
**02.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN D/S REAR WINDOW REPLACED'.
**02.10.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**03.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - D/S WIPER ADJUSTED'.
**03.10.1991** Service defect: 'UN - RADIO REPAIR - STATIC CONVERTER REPLACED'.
**16.10.1991** Service defect: 'UN - RADIO REPAIR - STATIC CONVERTER REPLACED'.
**17.10.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETED **'.
**17.10.1991** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND VALVES REPLACED'.
**05.11.1991** Service defect: 'UN - NO FAULT FOUND - BATTERIES TESTED OK.'.
**09.12.1991** Service defect: 'TS - BOGIE - BOGIES REPLACED'.
**06.05.1992** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - FIELD DIVERSION FAULT.'.
**16.05.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FIREMANS SIDE HEATER SWITCH REPLACED.'.
**16.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**16.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED.'.
**20.05.1992** Service defect: 'TW - DYNAMIC BRAKE REGULATOR - DYNAMIC BRAKE FAULT RECTIFIED BY REPLACING TDR4.'.
**20.05.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - EQUALISING PRESSURE FEED VALVE CHANGED. EQUALISING PRESSURE GAUGE ADJUSTED.'.
**20.05.1992** Service defect: 'TW - NO FAULT FOUND - FIREMANS SIDE HEATER REPORTED FAULTY. NO FAULT FOUND.'.
**06.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DAMP SAND CLEARED FROM SANDERS.'.
**10.06.1992** Service defect: 'TW - RADIO REPAIR - UHF RADIO INSTALLATION.'.
**17.06.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO INSTALLED.'.
**08.07.1992** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - LOW TENSION EARTH FAULT IN OLD VHF RADIO WIRING. OLD WIRING REMOVED.'.
**27.03.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE VALVE SOLENOID REPLACED.'.

### ZC 16

Details: locomotive 'ZC 16 C' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $115950
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1968
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1315
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 11.09.1996 | | |
| A Service Mileage: | 556441 KM | A Service Date: | 13.09.1994 |
| B Service Mileage: | 646671 KM | B Service Date: | 21.06.1996 |
| C Service Mileage: | 615388 KM | C Service Date: | 14.12.1995 |
| US Service Mileage: | 665214 KM | A Service Date: | 11.09.1996 |

**19.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FRONT L/HAND SIDE WHEEL DOWN TO GAUGE.(KEEP CHECK)'.
**20.07.1989** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - NO.1 AXLE RENEWED.'.

**20.07.1989** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**20.07.1989** Service defect: ‘TW - NO FAULT FOUND - MAIN CIRCUIT BREAKER CHECKED ‘OK’.’.
**31.07.1989** Service defect: ‘UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)’.
**01.08.1989** Service defect: ‘TS - LUBRICATING SYSTEM - BROKEN OIL PIPE REPAIRED.’.
**07.08.1989** Service defect: ‘UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES),BATTERIES WATERED.’.
**07.08.1989** Service defect: ‘UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.’.
**14.08.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - REPL SPEEDO CABLE.’.
**14.08.1989** Service defect: ‘UN - NO FAULT FOUND - FIELD DIVERSION TESTED ‘OK’.’.
**24.08.1989** Service defect: ‘B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.’.
**24.08.1989** Service defect: ‘B - ELECTRICAL MAINTENANCE -WIRING - HOTPLATE & HEATER WIRING REPAIRED.’.
**24.08.1989** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.’.
**24.08.1989** Service defect: ‘B - EXHAUST - (1)BELLOW REPL.’.
**24.08.1989** Service defect: ‘B - FUEL SYSTEM INJECTORS - ‘B’ BANK INJECTORS REPL.’.
**24.08.1989** Service defect: ‘B - GENERAL - TESTED ON LOAD TANK.’.
**11.09.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**14.09.1989** Service defect: ‘UN - FUEL SYSTEM INJECTORS - (6)INJECTORS REPL.ON ‘A‘BANK.’.
**14.09.1989** Service defect: ‘UN - GENERAL - OIL SAMPLE TAKEN.’.
**14.09.1989** Service defect: ‘UN - NO FAULT FOUND - CHECKED FOR OIL LEAKS ‘OK’.’.
**26.09.1989** Service defect: ‘TW - ELECTRICAL MISC - FUSES/HOLDERS - CAB LIGHT SWITCH REPL.’.
**26.09.1989** Service defect: ‘TW - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.’.
**26.09.1989** Service defect: ‘TW - GENERAL - ‘A‘SERVICE.’.
**26.09.1989** Service defect: ‘TW - MECHANICAL MAINTENANCE - SOUND WARNING - FAULT HORN REPAIRED.’.
**26.09.1989** Service defect: ‘TW - RADIO REPAIR - RADIO RENEWED.’.
**02.10.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.’.
**02.10.1989** Service defect: ‘UN - NO FAULT FOUND - RADIO TESTED ‘OK’.’.
**09.10.1989** Service defect: ‘UN - NO FAULT FOUND - SAND CIRCUIT BREAKER & FAULT BELL TESTED ‘OK’.’.
**12.10.1989** Service defect: ‘UN - NO FAULT FOUND - AMPS,F/DIVERSION & LOCO CHECKED FOR JUMPING ‘OK’.’.
**19.10.1989** Service defect: ‘UN - LUBRICATING SYSTEM - OIL SAMPLE TAKEN.’.
**19.10.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**19.10.1989** Service defect: ‘UN - NO FAULT FOUND - AMPS TESTED ‘OK’.’.
**15.11.1989** Service defect: ‘UN - GENERAL - PART OF CAB FLOOR REPL.’.
**15.11.1989** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPL.’.
**20.11.1989** Service defect: ‘UN - NO FAULT FOUND - AMPS TESTED ‘OK’.(COUPLED WITH ZC19)’.
**22.11.1989** Service defect: ‘B - BOGIE - F/LUBE PIPE RENEWED.’.
**22.11.1989** Service defect: ‘B - CONTACTOR MISCELLANEOUS - ALL CONTACTS CLEANED & TRUED UP.’.
**22.11.1989** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.& INTERIOR LIGHT SECURED.’.
**22.11.1989** Service defect: ‘B - MAIN GENERATOR BRUSHES - (8)BRUSHES REPL.’.
**22.11.1989** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.’.
**22.11.1989** Service defect: ‘B - TRACTION MOTOR BRUSHES - (12)BRUSHES REPL.’.
**05.12.1989** Service defect: ‘UN - GENERAL - AIR LEAK REPAIRED ON FLOW METER.’.
**05.12.1989** Service defect: ‘UN - GENERAL - TESTED ON LOAD TANK.’.
**28.03.1990** Service defect: ‘B - AUXILLARY MACHINES - (4) AUX.GENERATOR BRUSHES REPLACED.’.
**28.03.1990** Service defect: ‘B - CONTACTOR MISCELLANEOUS - MC.2 REPLACED.’.
**28.03.1990** Service defect: ‘B - ELECTRICAL MISCELLANEOUS - (5)GLOBES REPLACED.’.
**28.03.1990** Service defect: ‘B - GENERAL - *LOCO BOOKED OUT ON 15-03-90 AT 1500HRS.’.
**28.03.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.’.
**28.03.1990** Service defect: ‘B - RADIO REPAIR - RADIO NO. 79311 FITTED.’.
**28.03.1990** Service defect: ‘B - TRACTION MOTOR - (3)TRACTION MOTOR BRUSHES REPLACED.’.
**23.05.1990** Service defect: ‘UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.’.
**23.05.1990** Service defect: ‘UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO OUTER CABLE REPAIRED.’.
**23.05.1990** Service defect: ‘UN - RADIO REPAIR - RADIO REPLACED.’.
**28.05.1990** Service defect: ‘B - ENGINE - TIMING CHAIN TIGHTENED UP.’.
**28.05.1990** Service defect: ‘B - ENGINE WATER LEAK - WATER LEAKS REPAIRED.’.
**28.05.1990** Service defect: ‘B - FUEL SYSTEM - FUEL FILTER CHANGED, FUEL BLEED.’.
**28.05.1990** Service defect: ‘B - GENERAL - *LOCO BOOKED OUT ON 28-05-1990 AT 1600HRS.’.
**28.05.1990** Service defect: ‘B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.’.
**22.08.1990** Service defect: ‘C - GENERAL - SPEEDO ON LOCO 825266K/M.’.
**22.08.1990** Service defect: ‘C - MECHANICAL EQUIPMENT - (2)WIPER BLADES REPL.’.
**22.08.1990** Service defect: ‘C - MECHANICAL EQUIPMENT SANDING GEAR - (2)PIPES STRAIGHTENED & (2) HOSES REPL.’.
**22.08.1990** Service defect: ‘C - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.’.
**31.01.1991** Service defect: ‘B - ELECTRICAL MAINTENANCE -WIRING - FIRE DETECTORS WIRING REPAIRED’.
**31.01.1991** Service defect: ‘B - ELECTRICAL

MISCELLANEOUS - CAB FANS REPAIRED,INSTRUMENT LIGHTS REPAIRED'.
**31.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 837286KM.'.
**31.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT - EXHAUST BELLOW CHANGED,D/S SPEEDO CABLE REPLACED AND WIPER REPAIRED'.
**31.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED'.
**14.05.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**14.05.1991** Service defect: 'B - ENGINE WATER LEAK - WATER LEAKS REPAIRED'.
**14.05.1991** Service defect: 'B - EXHAUST - NO.6'B'EXHAUST GASKET REPLACED'.
**14.05.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 841796KM.'.
**14.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 3 BUMP RUBBERS REPLACED,LUBRICATOR BOX SECURED'.
**14.05.1991** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - COUPLING BOLT REPLACED'.
**14.05.1991** Service defect: 'B - OTHER BODY REPAIRS - F/S STEP REPAIRED'.
**03.06.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE TESTED O.K.'.
**18.06.1991** Service defect: 'UN - RADIO REPAIR - STATIC CONVERTER REPLACED,RADIO TESTED O/K.'.
**22.06.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**24.06.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**24.06.1991** Service defect: 'TW - RADIO REPAIR - RADIO REPLACED'.
**28.06.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**06.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - CONTROL EARTHS REPAIRED'.
**08.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE ADJUSTED'.
**09.07.1991** Service defect: 'UN - RADIO REPAIR - STATIC CONVERTER REPLACED'.
**11.07.1991** Service defect: 'UN - GENERAL - NO FAULTS BOOKED,LOCO CHECKED OK.'.
**16.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**16.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**20.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOXES REPAIRED A/C LEAKING,4 INJECTOR NOZZLES REPLACED'.
**25.07.1991** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH REPLACED'.
**25.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPLACED'.
**08.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETED ****'.
**08.08.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - FLOW METER REPAIRED'.
**08.08.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED'.
**23.08.1991** Service defect: 'TS - NO FAULT FOUND - NO FAULT FOUND WITH PANEL LIGHTS'.
**28.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TELEPHONE INSTALLED'.
**28.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**31.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED OK.'.
**10.09.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.
**10.09.1991** Service defect: 'TW - OTHER BODY REPAIRS - HOT PLATE DRAIN REPAIRED'.
**17.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED OK. FOR OIL LEAKS'.
**24.10.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**25.10.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETE **'.
**25.10.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - M.R.GAUGE GLASS REPLACED'.
**05.11.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS REPAIRED,DYNAMIC BRAKE GAUGE LIGHT REPAIRED'.
**05.11.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - SPEEDO CLOCK REPAIRED'.
**08.11.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**08.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AUTO BRAKE HANDLE LUBRICATED'.
**08.11.1991** Service defect: 'UN - NO FAULT FOUND - VIG. TESTED OK.'.
**08.11.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**12.11.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT TUBES REPLACED'.
**21.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPLACED'.
**21.05.1992** Service defect: 'TW - BATTERY MAINTENANCE - BATTERIES CHARGED AND WATERED.'.
**18.06.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - FULL SET OF BRAKE BLOCKS REPLACED.'.
**18.06.1992** Service defect: 'TW - RADIO REPAIR - UHF RADIO INSTALLED.'.
**22.06.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO REPLACED.'.
**23.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - WET SAND IN SANDERS CLEARED.'.
**06.07.1992** Service defect: 'TS - TRACTION MOTOR - NUMBER 3 TRACTION MOTOR CHANGED.'.
**10.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FLICKERING CAB LIGHT ON DRIVERS SIDE REPAIRED.'.
**10.07.1992** Service defect: 'UN - FUEL SYSTEM LINES - LEAK IN RETURN TO TANK PIPE ON INJECTOR #6 B BANK REPAIRED.'.
**14.07.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - FLICKERING CAB LIGHTS REPAIRED.'.
**14.07.1992** Service defect: 'TW - OTHER BODY REPAIRS -

CAB DRAUGHTS PLUGGED.'.
**14.07.1992** Service defect: 'TW - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**17.07.1992** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE WORKABLE.'.
**17.07.1992** Service defect: 'TW - NO FAULT FOUND - PC2 CHECKED AND OK.'.
**22.07.1992** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND IN DRIVERS SIDE SPEEDOMETER.'.
**05.08.1992** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION CARRIED OUT ON AXLES.'.
**05.08.1992** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - BLOWER FAILURE SWITCH REPLACED.'.
**05.08.1992** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOWS RENEWED.'.
**05.08.1992** Service defect: 'B - MECHANICAL EQUIPMENT - MAIN GAUGES MODIFIED.'.
**05.08.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND VALVE REPLACED. 1 SAND HOSE REPLACED. 2 SAND HOSES SET TO RAIL.'.
**05.08.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. AIR LEAK ON MAIN RESERVOIR REPAIRED.'.
**02.09.1992** Service defect: 'TW - OTHER BODY REPAIRS - BROKEN DRIVERS SIDE WINDOW REPLACED.'.
**10.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER INNER CABLE REPLACED.'.
**18.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - EQUALISING RESERVOIR GAUGE ADJUSTED.'.
**28.09.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - FLANGE LUBRICATOR POWER SUPPLY REPLACED.'.
**28.09.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - FLANGE LUBE NOZZLE BRACKET WELDED ON BOGIE.'.
**30.09.1992** Service defect: 'UN - BROKEN PIPE - BREAK IN OIL PIPE TO POTENTIOMETER REPAIRED.'.
**30.09.1992** Service defect: 'UN - GENERAL - OIL ALL OVER BODY WASHED OFF.'.
**09.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDOW WIPERS TIGHTENED.'.
**09.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**22.10.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - COMPLETE SET OF INJECTORS CHANGED.'.
**31.10.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDO LIGHT DROPPING RESISTOR REPLACED.'.
**31.10.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRE TO GAUGE LIGHTS REPLACED.'.
**31.10.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED PHONE FAULT. NO FAULT FOUND.'.
**03.11.1992** Service defect: 'TW - FUEL SYSTEM LINES - NUMBER 5 A BANK HIGH PRESSURE PIPE REPLACED.'.
**03.11.1992** Service defect: 'TW - FUEL SYSTEM PUMP - NUMBER 2 B BANK FUEL PUMP REPLACED.'.
**07.11.1992** Service defect: 'UN - FUEL SYSTEM PUMP - NUMBER 2 B BANK FUEL PUMP REPLACED. TIMING ADJUSTED ON ALL FUEL PUMPS. LOAD TANK TEST OK.'.
**09.11.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMPRESSOR GOVERNOR COIL CLEANED TO REMOVE WATER.'.
**10.11.1992** Service defect: 'UN - ELECTRICAL MISC. LOOSE CONNECTIONS - LOOSE WIRE ON WHEEL SLIP RESISTANCE FOR NUMBER 2 & 5 TRAC MOTORS REPAIRED. TEST RUN TOMORROW.'.
**12.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED.'.
**12.12.1992** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET REPLACED.'.
**12.12.1992** Service defect: 'UN - TRACTION MOTOR BRUSHES - REPAINTED VEE RINGS AND REPLACED 3 SETS OF BRUSHES ON TRACTION MOTORS 2 AND 5.'.
**22.12.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED'.
**28.01.1993** Service defect: 'C - COOLING SYSTEM - CLAMP TIGHTENED ON WATER RAIL.'.
**28.01.1993** Service defect: 'C - ENGINE - 2 COTTER PINS REPLACED ON ONE CON ROD.'.
**28.01.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**28.01.1993** Service defect: 'C - FUEL SYSTEM LINES - 1 BANJO FUEL PIPE REPLACED ON A BANK.'.
**28.01.1993** Service defect: 'C - MECHANICAL EQUIPMENT - WINDSCREEN WIPER TIGHTENED.'.
**28.01.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**28.01.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**16.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - REAR COUPLING BUSHES REPLACED. HALF MOON SADDLE REPLACED.'.
**24.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**24.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.03.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NUMBER 2 A BANK CYLINDER HEAD GASKET REPLACED.'.
**29.03.1993** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - CONTROL EARTHS CLEARED.'.
**13.04.1993** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL FUEL DILUTION 17
**13.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**30.04.1993** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED.'.
**30.04.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - CAB LIGHT REFLECTOR REPLACED.'.
**30.04.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**30.04.1993** Service defect: 'B - FUEL SYSTEM LINES - ONE HIGH PRESSURE PIPE TIGHTENED ON A BANK.'.
**30.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED. 2 SAND PIPES REPAIRED AND ALIGNED TO RAIL.'.
**30.04.1993** Service defect: 'B - MECHANICAL

MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.

**04.06.1993** Service defect: 'TW - BOGIE - 1 CRATER BOX REPAIRED.'.

**04.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - DERAILMENT DAMAGED SAND PIPES REPAIRED.'.

**19.06.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - A5 CYLINDER HEAD REPLACED.'.

**19.06.1993** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED DUE TO 19

**14.07.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**14.07.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**17.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - OVERHEAD CAB LIGHT REPLACED.'.

**27.07.1993** Service defect: 'UN - NO FAULT FOUND - CHECK.'.

**28.07.1993** Service defect: 'TS - ELECTRICAL MISC. JUMPER CABLES - FAULTY JUMPER CABLE. SPARE SENT TO SCOTTSDALE TO REPLACE FAULTY CABLE.'.

**03.08.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NUMBER 5 TRACTION MOTOR EARTH FAULT. CLEANED INSULATORS AND PAINTED V RING. THEN CHECKED OK.'.

**27.08.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**27.08.1993** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOW REPLACED.'.

**27.08.1993** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - REAR FAN GEARBOX SEAL REPLACED.'.

**27.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDBOX REPAIRED AND SANDERS CLEARED.'.

**18.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**18.09.1993** Service defect: 'UN - RADIO REPAIR - PHONE REPAIRS CARRIED OUT.'.

**22.09.1993** Service defect: 'TS - NO FAULT FOUND - TRACK STOPPAGE REPORTED AS CAUSED BY DROPPING AMPS. CHECKED IN SHOP AND NO FAULT FOUND.'.

**29.09.1993** Service defect: 'UN - TRACTION MOTOR EARTH - EARTH FAULT IN NUMBER 2 AND NUMBER 5 TRACTION MOTORS. ELECT FITTERS CHANGED ONE MOTOR AND CLEANED OTHER, DONT KNOW WHICH'.

**13.10.1993** Service defect: 'UN - LUBRICATING SYSTEM - COMPLETE ENGINE OIL CHANGE CARRIED OUT DUE TO 20

**02.02.1994** Service defect: 'B - LUBRICATING SYSTEM - ENGINE OIL DRAINED AND REPLACED DUE TO FUEL DILUTION.**'.

**02.02.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SANDING VALVES REPLACED. 1 SAND HOSE REPLACED.'.

**15.02.1994** Service defect: 'UN - TRACTION MOTOR - NUMBER 2 AND 5 TRACTION MOTORS REPLACED.'.

**16.02.1994** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.

**18.02.1994** Service defect: 'UN - ENGINE LINER - NUMBER 4A WATER JACKET REPLACED.'.

**25.02.1994** Service defect: 'UN - MAIN GENERATOR - LOW MEGGER READINGS ON MAIN GENERATOR FIXED BY GENERAL CLEANING AROUND GENERATOR.'.

**09.03.1994** Service defect: 'UN - INSULATION WORN - NUMBER 1 TRACTION MOTOR CABLE INSULATED.'.

**15.03.1994** Service defect: 'UN - LUBRICATING SYSTEM - OIL PIPE TO BLOWER REPAIRED.'.

**15.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED AND REPAIRED.'.

**15.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.1 BLOCK REPLACED.'.

**25.03.1994** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION DAMAGE FROM ROAD TRUCK REPAIRED.'.

**04.05.1994** Service defect: 'TS - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING REPLACED AROUND TURBOCHARGER. SET ON FIRE WHEN BLOWER DRAIN FELL OFF.'.

**04.05.1994** Service defect: 'TS - FUEL SYSTEM INJECTORS - FUEL INJECTOR REPLACED. CAUSE OF FUEL DILUTION PROBLEM.'.

**04.05.1994** Service defect: 'TS - MECHANICAL EQUIPMENT - TAPPETS AND TIMING CHAIN ADJUSTED.'.

**04.05.1994** Service defect: 'TS - TRACTION MOTOR - TRACTION MOTORS #2 AND #5 REPLACED.**********'.

**27.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER VALVE REPAIRED.'.

**27.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - COW CATCHER REPAIRED. DAMAGED BY LOG ON TRACK.'.

**28.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJ'.

**07.07.1994** Service defect: 'TS - ENGINE TURBOCHARGER/SUPERCHARGER - DUE TO FIRE IN TURBO FILTERS BOTH TURBOCHARGERS REPLACED WITH TURBOS REMOVED FROM Z2.'.

**12.08.1994** Service defect: 'B - BOGIE MAINTENANCE - WICKS - #6 AXLE DUST SEAL REPLACED. 1 FLANGE LUBE AIR HOSE REPLACED.'.

**12.08.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC4 AND MC6 CONTACTS REPLACED. LOAD REGULATOR GIVEN BLOW JOB.'.

**12.08.1994** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - PLUG ON GOVERNOR REWIRED.'.

**12.08.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS - OLD STATIC CONVERTOR REMOVED. OLD RADIO CRADLE REMOVED.'.

**12.08.1994** Service defect: 'B - ENGINE - 1 CAM COVER GASKET REPLACED. #4A HEAD GASKET REPLACED. #6A WATER JACKET GASKET REPLACED. HEAD TIGHTENED.'.

**12.08.1994** Service defect: 'B - RADIO REPAIR - NEW RADIO AND PHONE POWER SUPPLY INSTALLED. NEW ANTENNA FITTED.'.

### ZC 17

Details: locomotive 'ZC 17 L' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne

**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $112820
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1968
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1316
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 03.10.1996 | | |
| A Service Mileage: | 476000 KM | A Service Date: | 03.08.1994 |
| B Service Mileage: | 543392 KM | B Service Date: | 16.04.1996 |
| C Service Mileage: | 573572 KM | C Service Date: | 03.10.1996 |
| US Service Mileage: | 565208 KM | A Service Date: | 25.07.1996 |

**12.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**12.07.1989** Service defect: 'TW - ENGINE GOVERNOR - TOPPED UP WITH OIL.'.
**12.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**12.07.1989** Service defect: 'TW - VIGILANCE - REPL.DIODE.'.
**13.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LIGHTING CIRCUIT BREAKER TESTED 'OK'.'.
**13.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO RENEWED.'.
**14.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - (4)INSIDE BRACKETS RENEWED & (4)NOZZLES RENEWED ON FLANGE LUBRICATORS.'.
**17.07.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN & LOCO CHECKED.'.
**17.07.1989** Service defect: 'UN - NO FAULT FOUND - WHEELSLIP CHECKED 'OK'.'.
**19.07.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**20.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED B.M.R. CONTACTS 'OK'.'.
**20.07.1989** Service defect: 'UN - OTHER BODY REPAIRS -
**28.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER REPAIRED.'.
**28.07.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.
**28.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**28.07.1989** Service defect: 'UN - VIGILANCE - REPAIRED VIGILANCE.'.
**03.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**03.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED.'.
**03.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPAIRED.'.
**29.08.1989** Service defect: 'B - AUXILLARY MACHINES - (1)AUX.GENERATOR BRUSH REPL.'.
**29.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**29.08.1989** Service defect: 'B - EXHAUST - (2)BELLOWS REPL.'.
**29.08.1989** Service defect: 'B - GENERAL - CONTROL 0.03MEG. POWER 2MEG.'.
**29.08.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (1)BRUSH REPL.'.
**29.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR UNLOADER REPAIRED.'.
**29.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (1)SAND PIPE REPAIRED.'.
**29.08.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**29.08.1989** Service defect: 'B - WHEELSLIP - W/SLIP RESISTORS REPAIRED.'.
**30.08.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**07.09.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**07.09.1989** Service defect: 'UN - NO FAULT FOUND - TESTED HEATER & W/SLIP.'OK'.'.
**29.09.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (12)LAMPS REPL.'.
**29.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**09.10.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED T/MOTORS & W/SLIP 'OK'.'.
**16.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGED.'.
**16.10.1989** Service defect: 'UN - NO FAULT FOUND - F/DIVERSION TESTED 'OK'.'.
**18.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED HEATER.'.
**18.10.1989** Service defect: 'UN - NO FAULT FOUND - VIG. TESTED 'OK'.'.
**18.10.1989** Service defect: 'UN - RADIO REPAIR - REPAIRED RADIO.'.
**10.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**20.11.1989** Service defect: 'UN - NO FAULT FOUND - VIG. & W/SLIP TESTED 'OK'.'.
**23.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPL FAULT HORN.'.
**28.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED HOT PLATE.'.
**28.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - W/WIPER REPAIRED.'.
**05.12.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - (10)BLOCKS REPL.'.
**05.12.1989** Service defect: 'UN - NO FAULT FOUND - W/SLIP TESTED 'OK'.'.
**19.03.1990** Service defect: 'B - AUXILLARY MACHINES - (1)AUX. GENERATOR BRUSH REPLACED.'.
**19.03.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**19.03.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC.3 AUX.CONTACTS ADJ.& ALL CONTACTS TRUED UP.'.
**19.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (2)LAMPS REPLACED & INTERIOR CAB LIGHT REPAIRED.'.
**19.03.1990** Service defect: 'B - EXHAUST - REPLACED EXPANSION JOINT.'.
**19.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (4)BRUSHES REPLACED.'.
**19.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPLACED.'.
**06.04.1990** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - JUMPER RENEWED.'.

**06.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 04-04-90 AT 1300HRS.'.
**06.04.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**06.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALLL BRAKES ADJ.'.
**23.04.1990** Service defect: 'TW - GENERAL - *LOCO BOOKED OUT ON 18-04-90.'.
**04.05.1990** Service defect: 'CA - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**04.05.1990** Service defect: 'CA - OTHER BODY REPAIRS - REPL.COW CATCHER.'.
**08.05.1990** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE REGULATOR CHECKED 'OK'.'.
**18.06.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 868674K/M.'.
**18.06.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 18-06-1990, AT 1600HRS.'.
**20.09.1990** Service defect: 'B - COOLING SYSTEM - REPAIRED WATER DRAIN COCK.'.
**20.09.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**20.09.1990** Service defect: 'B - ENGINE CYLINDER HEADS - REPL.NO.3 'B'BANK H/GASKET.'.
**20.09.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (2)BRUSHES REPL.'.
**20.09.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**20.09.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**20.03.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**20.03.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**22.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - DRIVERS SIDE BRAKE HEAD REPLACED DUE TO IT LEAKING.'.
**06.06.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV.OIL REFILLED & CHECKED O.K.'.
**07.06.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV.OIL TOPPED UP'.
**19.06.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE RESET & OPERATION OF O.V.R. CHECKED O.K.'.
**22.06.1991** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - EARTH FOUND TO BE WIRE HANGING OFF FIRE DETECTOR'.
**25.06.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - LOCO COULD NOT BE FAULTED'.
**05.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER REPAIRED'.
**09.07.1991** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - ADJUSTED COMPENSATING NEEDLE IN GOVERNOR & GOVERNOR BLED.'.
**27.07.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED'.
**27.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**27.08.1991** Service defect: 'C - ELECTRICAL MAINTENANCE - REVERSER - BOLT IN REVERSER REPLACED'.
**27.08.1991** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - 2 WATER TEMPERATURE SWITCHES REPLACED'.
**27.08.1991** Service defect: 'C - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE RESET A/C SETTING TO HIGH'.
**27.08.1991** Service defect: 'C - ELECTRICAL MISCELLANEOUS - 12 GLOBES REPLACED'.
**27.08.1991** Service defect: 'C - EXHAUST - EXHAUST BELLOWS CHANGED'.
**27.08.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**27.08.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BLOCKS REPLACED'.
**27.08.1991** Service defect: 'C - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED NO.1 TRACTION MOTOR GREASE NIPPLE REPLACED'.
**27.08.1991** Service defect: 'C - WHEELSLIP - WHEELSLIP RELAYS RESET'.
**29.08.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL SEAL REPLACED'.
**29.08.1991** Service defect: 'UN - WHEELSLIP - NO FAULT FOUND WITH LOCO SLIPPING'.
**04.09.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOV. SHUT DOWN ROD ADJUSTED A/C LOCO SHUTTING DOWN'.
**09.09.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH DOOR LOCK'.
**10.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**10.10.1991** Service defect: 'UN - NO FAULT FOUND - VIGILANCE TESTED OK.'.
**25.10.1991** Service defect: 'TW - GENERAL - ** A SERVICE COMPLETE **'.
**25.10.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BLOCKS REPLACED'.
**19.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO GLASS REPLACED'.
**25.11.1991** Service defect: 'UN - OTHER BODY REPAIRS - SMASHED WINDOWS REPLACED'.
**08.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START. VOLTAGE CHECK.'.
**08.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK IN FLOWMETER REPAIRED.'.
**11.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - THREE BATTERIES REPLACED.'.
**15.05.1992** Service defect: 'UN - RADIO REPAIR - RADIO FAULT CAUSED BY POWER SUPPLY UNDER VOLTAGE.'.
**23.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.05.1992** Service defect: 'UN - NO FAULT FOUND - BOOST NO FAULT FOUND.'.
**11.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - NOISY FRONT TRACTION MOTOR BLOWER REPLACED. TWO CRATER BOXES REPLACED DUE TO DERAILMENT DAMAGE.'.
**11.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - TWO SAND PIPES REPLACED DUE TO DERAILMENT DAMAGE.'.
**16.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT BRAKE CYLINDER BROKEN COLLAR REPLACED, LEADING BOGIE FIREMANS SIDE.'.

**23.06.1992** Service defect: 'TS - WHEELSLIP - WHEEL SLIP RELAY ADJUSTED.'.
**27.06.1992** Service defect: 'UN - WHEELSLIP - INTERMITTENT WHEEL SLIP FAULT NOT FOUND.'.
**03.07.1992** Service defect: 'B - AUXILLARY MACHINES - TWO AUXILLIARY GENERATOR BRUSHES CHANGED.'.
**03.07.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - TWO FAULT LIGHTS REPLACED.'.
**03.07.1992** Service defect: 'B - ENGINE CYLINDER HEADS - CYLINDER HEAD #1 A BANK TIGHTENED DOWN.'.
**03.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT - ONE FLANGE LUBE PIPE RENEWED.'.
**03.07.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**03.07.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - TWO BRAKE BLOCKS CHANGED AND BRAKES ADJUSTED.'.
**03.07.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - FIVE TRACTION MOTOR BRUSHES CHANGED.'.
**23.07.1992** Service defect: 'UN - WHEELSLIP - NUMBER 3 AND 4 TRACTION MOTORS REPLACED.'.
**06.08.1992** Service defect: 'TW - LUBRICATING SYSTEM - OIL LEAK AT CAB END OF ENGINE REPAIRED.'.
**04.09.1992** Service defect: 'TW - ENGINE GOVERNOR - GOVERNOR OIL TOPPED UP.'.
**04.09.1992** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDS MADE FUNCTIONAL.'.
**04.09.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.09.1992** Service defect: 'UN - OTHER BODY REPAIRS - MISSING DOG BOX COVER REPLACED.'.
**23.09.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**29.09.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - NUMBERS 1 & 4 CRATER BOXES REPLACED. FRONT TRACTION MOTOR BLOWER REPLACED.'.
**28.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - TRACTION MOTOR BELLOWS REPLACED ON NUMBER 4 TRACTION MOTOR.'.
**28.11.1992** Service defect: 'UN - NO FAULT FOUND - VIGILANCE ISOLATED. TESTED AND NO FAULT FOUND.'.
**01.12.1992** Service defect: 'B - COOLING SYSTEM - 1 WATER HOSE TIGHTENED ON B BANK.'.
**01.12.1992** Service defect: 'B - MECHANICAL EQUIPMENT - 1 FLANGE LUBE HOSE REPLACED.'.
**01.12.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 3 SANDERS MADE FUNCTIONAL.'.
**01.12.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**11.12.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - DYNAMIC BRAKE GAUGE LIGHT REPLACED.'.
**11.12.1992** Service defect: 'UN - FUEL SYSTEM - SMALL HOLE IN FUEL TANK REPAIRED.'.
**13.01.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - BROKEN SAND TRAPS REPLACED.'.
**10.02.1993** Service defect: 'UN - TRACTION MOTOR BURNTOUT - CABLE BLOWN OFF TRACTION MOTOR #6. TRACTION MOTOR REPLACED.'.
**18.02.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - PANEL LIGHT FLUORESCENT STARTER REPLACED.'.
**18.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE PIPE UNDER STEP REPAIRED. NUMBER 2 TRACTION MOTOR BELLOWS REPLACED.'.
**18.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - FIREMANS SIDE SPEEDOMETER CABLE REPLACED.'.
**24.02.1993** Service defect: 'TS - MECHANICAL EQUIPMENT - FRONT WINDSCREEN WIPERS REPAIRED.'.
**24.02.1993** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**24.02.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**24.02.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - A 15 MINUTE TRACK STOPPAGE WAS CAUSED BECAUSE SPEEDOMETER CABLE DETATCHED FROM SPEEDO. REFASTENED BY LOCO SUPERVISOR.'.
**24.03.1993** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - REPORTED TRACK STOPPAGE DUE TO SLIPPING. SANDERS CLEARED.'.
**24.03.1993** Service defect: 'TW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER AIR MANIFOLD REPLACED.'.
**29.03.1993** Service defect: 'UN - ENGINE GOVERNOR ELECTRICAL - BURNT THROTTLE PIPE TO GOVERNOR REPLACED.'.
**29.03.1993** Service defect: 'UN - GENERAL - FIRE EXTINGUISHERS REPLACED.'.
**29.03.1993** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MAIN GENERATOR FLASHOVER CAUSED FIRE. GENERATOR CLEANED AND WHEN INSPECTED NO SIGNIFICANT DAMAGE FOUND.'.
**21.04.1993** Service defect: 'B - BOGIE MAINTENANCE - SPRINGS - ULTRASOUND INSPECTION CARRIED OUT ON ALL AXLES.'.
**21.04.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**21.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - REAR CENTRE COUPLING KNUCKLE REPLACED. REAR COUPLING BRAKET REPAIRED.'.
**21.04.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE REPAIRED.'.
**21.04.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**21.04.1993** Service defect: 'B - NO FAULT FOUND - ELECTRICAL SERVICE SHEET REPORTS NO PARTS REPLACED.'.
**29.04.1993** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - LOCOMOTIVE DRAGGED WITH BRAKES ON. CHECKED AND ALLOWED TO GOBACK INTO SERVICE.'.
**29.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKE BLOCKS REPLACED.'.
**19.05.1993** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT STRIP LIGHTS INSTALLED IN GAUGES.'.
**19.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**05.06.1993** Service defect: 'UN - WHEELSLIP - WHEEL SLIP BELL AND LIGHT REPAIRED.'.
**12.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT

SANDING GEAR - SANDERS CLEARED.'.
**12.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**17.06.1993** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**17.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - FRONT TRACTION MOTOR BLOWER BRACKET REPAIRED.'.
**19.06.1993** Service defect: 'UN - NO FAULT FOUND - BOOST FAULT REPORTED. CHECKED AND NO FAULT FOUND.'.
**23.06.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - FIELD DIVERSION FAULT. CLR1 & CLR2 RESET.'.
**09.07.1993** Service defect: 'UN - BATTERY MAINTENANCE - 1 BATTERY REPLACED.'.
**14.07.1993** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**16.07.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED WHEELSLIP FAULT. NO FAULT FOUND.'.
**16.09.1993** Service defect: 'UN - MAIN GENERATOR FLASHOVER - ***ALPHA ELECTRIC REBUILT GENERATOR INSTALLED.**********'.
**17.09.1993** Service defect: 'UN - RADIO REPAIR - PHONE REPAIRS CARRIED OUT.'.
**01.10.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE OPERATIONAL.'.
**06.10.1993** Service defect: 'TS - ENGINE GOVERNOR MECHANICAL - THOTTLE AIR PIPE TO GOV REPLACED.'.
**06.10.1993** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE OPERATIONAL.'.
**13.10.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE REPAIRS CARRIED OUT.'.
**14.10.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FRONT TRACTION MOTOR BLOWER SWITCH REPLACED.'.
**09.12.1993** Service defect: 'C - BOGIE - BOGIE CHANGE CARRIED OUT.'.
**09.12.1993** Service defect: 'C - FUEL SYSTEM - SPLIT FUEL TANK GAS FREED AND WELDED.'.
**04.02.1994** Service defect: 'UN - LUBRICATING SYSTEM - BROKEN OIL PIPE AT REAR OF MOTOR REPAIRED.'.
**04.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**08.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**09.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - BROKEN AIR LINE TO SANDER REPAIRED. ALL SANDS CLEARED.'.
**12.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.
**14.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX TIGHTENED.'.
**14.02.1994** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW HANDLE REPLACED.'.
**15.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER REPLACED.'.
**17.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REPAIRS CARRIED OUT ON TRAILING BOGIE.'.
**21.02.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ELECTRICAL FAULT IN SANDER SYSTEM REPAIRED. CAKED SAND REMOVED IN SANDBOXES.'.
**25.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE VALVE REPAIRED.'.
**25.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD CHECKED.'.
**28.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER MODIFICATIONS CARRIED OUT.'.
**28.02.1994** Service defect: 'UN - SANDER AND FLANGE LUBE REPAIRS TO BE COMPLETED.'.
**03.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE REPAIRS COMPLETED.'.
**03.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDBOX REPAIRS COMPLETED.'.
**16.03.1994** Service defect: 'UN - COOLING SYSTEM - WATER PIPE TO HEADER TANK REPAIRED.'.
**16.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**21.03.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED.'.
**21.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**22.03.1994** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WATERED AND WASHED.'.
**22.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBRICATOR PUMP AND TANK REPLACED.'.
**22.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**22.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**22.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED.'.
**25.03.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VIGILANCE WARNING REPAIRED.'.
**25.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**19.04.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**19.04.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**29.04.1994** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - FAULT ALARM SOUNDING. CRANKCASE RELAY C1R BRIDGED OUT OF CIRCUIT.'.
**05.05.1994** Service defect: 'UN - COOLING SYSTEM - FAN DRIVE CLUTCH REPLACED.***'.
**09.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - LEADING TRACTION MOTOR BLOWER BEARINGS REPLACED.'.
**25.05.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS CLEARED IN REAR FLANGE LUBE SOLENOIDS, AND BATTERY CIRCUIT.'.
**30.05.1994** Service defect: 'UN - TRACTION MOTOR - NUMBER 3 TRACTION MOTOR REPLACED.**********'.
**02.06.1994** Service defect: 'B - BATTERY MAINTENANCE - BATTERY WATER TOPPED UP.'.
**02.06.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC COVER REPLACED.'.

**02.06.1994** Service defect: 'B - EXHAUST - 1A EXHAUST GASKET REPLACED. WARNING HORNS FRONT AND REAR REPLACED.'.
**02.06.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED. 1 FLANGE LUBE LINE REPLACED.'.
**02.06.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 TRACTION MOTOR BRUSHES REPLACED. 3 LIGHT GLOBES.'.
**05.12.1994** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER REPLACED.**********'.
**14.02.1996** Service defect: 'UN - NO FAULT FOUND - REPORTED ENGINE OIL LEAK. CHECKED BY M. NUNN AND NO LEAK FOUND'.
**19.02.1996** Service defect: 'TS - ENGINE - NUMBER 5B FUEL PUMP REPLACED.'.

### ZC 19

Details: locomotive 'ZC 19 G' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $121890
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1968
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1318
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 12.08.1996 | | |
| A Service Mileage: | 493246 KM | A Service Date: | 26.05.1994 |
| B Service Mileage: | 530776 KM | B Service Date: | 23.04.1996 |
| C Service Mileage: | 467594 KM | C Service Date: | 10.08.1993 |
| US Service Mileage: | 557000 KM | A Service Date: | 05.08.1996 |

**15.11.1989** Service defect: 'UN - GENERAL - 'A'SERVICE.'.
**15.11.1989** Service defect: 'UN - GENERAL ACCIDENT - DERAILMENT DAMAGE REPAIRED.'.
**23.11.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**04.12.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.& FLURO REPAIRED.'.
**04.12.1989** Service defect: 'B - GENERAL - *BLOWER MOTOR SWITCH LINES TO BE BLOWN OUT NEXT SERVICE.'.
**04.12.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (6)BRUSHES REPL.'.
**04.12.1989** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE RENEWED.'.
**04.12.1989** Service defect: 'B - TRACTION MOTOR - (2)COVERS CUT OFF & REPL.'.
**06.12.1989** Service defect: 'UN - GENERAL - 'A'SERVICE.'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 20-12-89.'.
**12.04.1990** Service defect: 'B - EXHAUST - BELLOW RENEWED.'.
**12.04.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**12.04.1990** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE RENEWED.'.
**01.05.1990** Service defect: 'UN - FUEL SYSTEM - REPAIRED FUEL GAUGE.(LEAKING)'.
**01.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 23-04-90.'.
**01.05.1990** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED .'.
**08.05.1990** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - REPLACED HEATER SWITCH.'.
**08.05.1990** Service defect: 'UN - OTHER BODY REPAIRS - FOOTREST SECURED.'.
**23.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**04.10.1990** Service defect: 'B - AUXILLARY MACHINES - FULL SET AUXILLARY GEN.BRUSHES REPLACED'.
**04.10.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,LUBRICATOR HOSES REPAIRED'.
**04.10.1990** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - ENGINE ROOM LIGHT WIRING REPAIRED'.
**04.10.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - O.V.R RELAY CONTACT BLOCK REPLACED'.
**04.10.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 773554K/M.'.
**04.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT - EXHAUST BELLOW REPLACED'.
**04.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**10.01.1991** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - HEADLIGHTS REPAIRED'.
**10.01.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - RADIO NO.Q.R.72805'.
**10.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 785823KM.'.
**10.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SANDER VALVE REPLACED,1 SAND HOSE REPLACED'.
**10.01.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED'.
**24.05.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - INVERTER SUPPLYING RIBBON TYPE INSTRUMENT LIGHTS REPLACED, 9 GLOBES REPLACED'.
**24.05.1991** Service defect: 'TW - GENERAL - 'A' SERVICE'.
**24.05.1991** Service defect: 'TW - RADIO REPAIR - RADIO HANDSET REPLACED'.
**03.06.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**03.06.1991** Service defect: 'C - ELECTRICAL MISC. AC/DC RELAYS - FAULTY OIL PRESSURE RELAY REPLACED'.
**03.06.1991** Service defect: 'C - ELECTRICAL MISC. HEADLIGHT - HEADLIGHTS REPAIRED'.
**03.06.1991** Service defect: 'C - ELECTRICAL MISC. VOLTAGE REGULATOR - FAULTY VOLTAGE REGULATOR REPLACED'.
**03.06.1991** Service defect: 'C - ELECTRICAL

MISCELLANEOUS - WHEEL FLANGE LUBRICATOR PULSATOR UNIT REPLACED'.
**03.06.1991** Service defect: 'C - EXHAUST - EXHAUST BELLOW CLAMP TIGHTENED'.
**03.06.1991** Service defect: 'C - MECHANICAL EQUIPMENT - REAR T/M BLOWER SHAFT REPLACED'.
**03.06.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDS REPAIRED & CLEARED'.
**03.06.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BLOCKS REPLACED'.
**04.06.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE READJUSTED TO 110 VOLTS & LOCO AMPS TESTED O.K.'.
**12.06.1991** Service defect: 'UN - RADIO REPAIR - FAULTY RADIO REPLACED'.
**21.06.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - PANEL LIGHT INVERTER REPLACED'.
**21.06.1991** Service defect: 'TS - RADIO REPAIR - RADIO REPLACED'.
**25.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS TESTED OK.'.
**25.06.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED & AERIAL REPLACED,RADIO TESTED OK.ON BOTH CHANNELS'.
**26.06.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH PANEL LIGHTS OR RADIO INSPECTED BY G.LEO & L.CHANDLER'.
**28.06.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SUPPLY FUSE TO GAUGE LIGHT INVERTER REPLACED'.
**28.06.1991** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO OIL TOPPED UP'.
**03.07.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.
**09.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHT INVERTER REPLACED'.
**09.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO HANDSET CRADLE REPLACED'.
**11.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED & VOLTAGE TESTED OK.'.
**11.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHT INVERTER FUSE REPLACED'.
**11.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - FOOTREST REPAIRED'.
**12.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**16.07.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - OIL INTAKE PIPE TO GOVERNOR REPAIRED'.
**16.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL CLEANED OFF FOOT PLATE'.
**18.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED A/C FLAT BATTERIES,VOLTAGE REGULATOR RESET'.
**24.07.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO BATTERIES CHARGED OVERNIGHT'.
**24.07.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED'.
**25.07.1991** Service defect: 'TW - ELECTRICAL MISC - FUSES/HOLDERS - DRIVERS SIDE HEATER SWITCH REPLACED'.
**25.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**25.07.1991** Service defect: 'TW - OTHER BODY REPAIRS - DRAUGHTS SEALED AROUND BRAKE PEDESTAL'.
**14.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**14.08.1991** Service defect: 'TW - NO FAULT FOUND - NO FAULT FOUND WITH WHEELSLIP'.
**22.08.1991** Service defect: 'TS - FUEL SYSTEM PUMP - NO.4 'B' BANK FUEL PUMP REPLACED'.
**28.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TELEPHONE INSTALLED'.
**28.08.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**07.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - MARKER & STEP LIGHTS REPAIRED'.
**12.09.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**14.09.1991** Service defect: 'UN - RADIO REPAIR - STATIC CONVERTER REPLACED'.
**24.09.1991** Service defect: 'TS - GENERAL - *** A SERVICE COMPLETE ****'.
**24.09.1991** Service defect: 'TS - NO FAULT FOUND - JUMPER SOCKETS TESTED OK.'.
**24.09.1991** Service defect: 'TS - RADIO REPAIR - RADIO CRADLE REPLACED'.
**01.10.1991** Service defect: 'B - BOGIE - 1 FLANGE LUBE PIPE REPLACED'.
**01.10.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 GLOBES REPLACED'.
**01.10.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 8 MAIN GENERATOR BRUSHES REPLACED'.
**01.10.1991** Service defect: 'B - MECHANICAL EQUIPMENT - T/M BLOWER BEARINGS REPLACED & 4 MAIN AIR HOSES REPLACED'.
**01.10.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND VALVE & 1 SAND PIPE RENEWED'.
**01.10.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED'.
**01.10.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 SETS OF TRACTION MOTOR BRUSHES REPLACED'.
**05.10.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB FLOURO.REPLACED'.
**05.10.1991** Service defect: 'UN - RADIO REPAIR - RADIO CRADLE REFASTENED'.
**10.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPAIRED & 2 SAND VALVES REPLACED A/C DERAILMENT'.
**10.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**24.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - WINDSCREEN WIPER REPAIRED'.
**24.10.1991** Service defect: 'UN - OTHER BODY REPAIRS - SUN VISOR REPLACED'.
**24.10.1991** Service defect: 'UN - RADIO REPAIR - FAULTY RADIO REPLACED'.
**26.10.1991** Service defect: 'UN - BATTERY MAINTENANCE - LOCO JUMP STARTED'.
**26.10.1991** Service defect: 'UN - NO FAULT FOUND - AMPS

TESTED OK.'.
**08.05.1992** Service defect: 'C - ENGINE - TIMING CHAIN TENSIONED. ***B SERVICE COMPLETED***'.
**08.05.1992** Service defect: 'C - ENGINE CYLINDER HEADS - #2 B BANK & #4 B BANK HEAD GASKETS CHANGED.'.
**11.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - LOOSE PLATE ON FLOOR SECURED.'.
**21.05.1992** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - HIGHER WATTAGE GLOBES FITTED IN GAUGE PANELS.'.
**21.05.1992** Service defect: 'TW - NO FAULT FOUND - WHEEL SLIP FAULT REPORTED. NO FAULT FOUND.'.
**25.05.1992** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES. LOCO JUMPED STARTED.'.
**02.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DAMP SSAND CAUSING SANDING FAULT. SAND REPLACED AND OK.'.
**06.06.1992** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH PANEL LIGHTS.'.
**13.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE BLOCKS CHANGED AND ADJUSTED.'.
**27.06.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKING FROM SUMP OIL COUPLING, COUPLING TIGHTENED.'.
**22.07.1992** Service defect: 'TW - AUXILLARY MACHINES - PHONE CUTTING OUT CAUSED BY INCORRECT AUXILLIARY CONTROL VOLTAGE. VOLTAGE ADJUSTED.'.
**06.08.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - MAIN SWITCH SHAFT COUPLING TIGHTENED.'.
**15.08.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLOURESCENT PANEL LIGHT INVERTOR REPLACED.'.
**15.08.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - VIGILANCE FOOTPEDAL SECURED TO FLOOR.'.
**15.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - MISSING SANDBOX BUNG REPLACED.'.
**28.08.1992** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - THREE FLUORESCENT GAUGE LIGHTS REPLACED.'.
**28.08.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED OIL LEAKS. NO FAULTS FOUND.'.
**01.09.1992** Service defect: 'UN - BROKEN PIPE - BROKEN SUMP DRAIN PIPE REPAIRED.'.
**01.09.1992** Service defect: 'UN - FUEL SYSTEM - FUEL RACK SETTINGS CHECKED BY RUNNING ON LOAD TANK.'.
**18.09.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - INST PANEL, LOOSE NUT TIGHTENED.'.
**18.09.1992** Service defect: 'UN - NO FAULT FOUND - DYN BRAKE NO FAULT FOUND.'.
**22.09.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBRICATOR REPAIRS CARRIED OUT.'.
**05.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.11.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**13.11.1992** Service defect: 'B - FUEL SYSTEM PUMP - 1 FUEL PUMP WASHER REPLACED ON A BANK.'.
**13.11.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**13.11.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**13.11.1992** Service defect: 'B - NO FAULT FOUND - NO ELECTRICAL SERVICE SHEET RECEIVED AT THIS TIME.'.
**17.11.1992** Service defect: 'UN - RADIO REPAIR - MISSING RADIO TRANSCEIVER REPLACED.'.
**11.12.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE OPERATIONAL.'.
**11.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPAIRED.'.
**19.01.1993** Service defect: 'TW - FUEL SYSTEM - SPLIT FUEL TANK REPAIRED.'.
**25.01.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NUMBER 6 A BANK CYLINDER HEAD REPLACED.'.
**25.01.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**25.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER REPLACED. BRAKES ADJUSTED.'.
**22.03.1993** Service defect: 'B - DYNAMIC BRAKE - 1 DYNAMIC BRAKE BLOWER MOTOR REPLACED. 1 BANK OF DYNAMIC BRAKE RESISTORS REPLACED.'.
**22.03.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 1 B.C LIGHT FITTING REPLACED.'.
**22.03.1993** Service defect: 'B - ENGINE - RELIEF VALVE REPLACED ON 6A HEAD.'.
**22.03.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**22.03.1993** Service defect: 'B - LUBRICATING SYSTEM - OIL HOSE REPLACED ON 3B HEAD.'.
**22.03.1993** Service defect: 'B - MAIN GENERATOR BRUSHES - 1 SET OF GENERATOR BRUSHES REPLACED.'.
**22.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**22.03.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**26.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**01.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - LEAKING BRAKE PIPE REPAIRED.'.
**02.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR PIPE UNION ABOVE COMPRESSOR TIGHTENED.'.
**13.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - FIREMANS SIDE SPEEDOMETER CABLE REPLACED.'.
**06.05.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - THROTTLE QUADRANT ADVANCED.'.
**06.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED ON FIREMANS SIDE.'.
**08.05.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - INSTRUMENT LIGHT REPAIRS CARRIED OUT.'.
**08.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - FIREMANS SIDE SPEEDOMETER REPLACED.'.

**02.06.1993** Service defect: 'TW - BATTERY MAINTENANCE - FLAT BATTERIES CHARGED.'.
**02.06.1993** Service defect: 'TW - BOGIE - CRATER BOX WELDED.'.
**05.06.1993** Service defect: 'UN - NO FAULT FOUND - WORK CARRIED OUT ON THIS LOCO UNKNOWN. A BUTT WAS SUPERVISORFOR SATURDAY. HE IS OFF ON LEAVE.'.
**12.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**12.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**19.06.1993** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - THROTTLE AIR PRESSURE PIPE REPLACED.'.
**25.06.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - CORRECTION MADE TO INCORRECTLY WIRED FLUORO GAUGE LIGHTS.'.
**24.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE OPERATIONAL.'.
**06.08.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NUMBER 1 B BANK HEAD REPLACED DUE TO DROPPED VALVE.'.
**06.08.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - B BANK TURBOCHARGER REPLACED.'.
**10.08.1993** Service defect: 'C - CONTACTOR MISCELLANEOUS - CONTACTS REPLACED ON MC3 & 6.'.
**10.08.1993** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - FRONT MARKER WIRING REPAIRED.'.
**10.08.1993** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - WTS 3 REPLACED.'.
**10.08.1993** Service defect: 'C - ELECTRICAL MISCELLANEOUS - CAB FLOURESCENT LAMPS REPLACED.'.
**10.08.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO DRAINS CLEARED.'.
**10.08.1993** Service defect: 'C - FUEL SYSTEM PUMP - NUMBER 6B FUEL PUMP REPLACED.'.
**10.08.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**10.08.1993** Service defect: 'C - TRACTION MOTOR BRUSHES - ALL TOP TRACTION MOTOR BRUSHES REPLACED.'.
**20.08.1993** Service defect: 'TS - ENGINE GOVERNOR - WATER IN ENGINE GOVERNOR. GOVERNOR REPLACED.'.
**20.08.1993** Service defect: 'TS - TRACTION MOTOR EARTH - TRACTION MOTOR EARTH FAULT CAUSED BY LOOSE WASHER SHORTING OUT CABLES.'.
**15.09.1993** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FIREMANS SIDE HEATER SWITCH REPLACED.'.
**15.09.1993** Service defect: 'UN - GENERAL - MISSING FIRE EXTINGUISHER REPLACED.'.
**15.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**15.09.1993** Service defect: 'UN - NO FAULT FOUND - PHONE FAULT REPORTED. CHECKED AND NO FAULT FOUND. VIGILANCE CHECKED.'.
**07.10.1993** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGE CARRIED OUT AT QUICK FIX DUE TO FUEL DILUTION. CHECK FOR FUEL LEAKS CARRIED OUT.'.
**07.10.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.10.1993** Service defect: 'UN - OTHER BODY REPAIRS - STEP STRAIGHTENED ON 09/10/93 AT UNKNOWN KILOMETRES.'.
**22.10.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - GAUGE LIGHTS REPAIRED.'.
**11.02.1994** Service defect: 'TW - MECHANICAL EQUIPMENT - DRIVERS SIDE WIPER REPAIRED.'.
**11.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**12.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.
**09.03.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES REPAIRED.'.
**10.03.1994** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**25.03.1994** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**25.03.1994** Service defect: 'TS - NO FAULT FOUND - THERE ARE A NUMBER OF OTHER FAULTS TO BE LOOKED AT. THE LOCOIS TO BE BOOKED IN FOR A B SERVICE TODAY. WILL BE DONE THEN.'.
**25.03.1994** Service defect: 'TS - TRACTION MOTOR - TRACTION MOTOR CABLE BRACKETS REPAIRED.'.
**06.04.1994** Service defect: 'B - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT OUT CONDUIT AND ASSORTED WIRING REPAIRED.'.
**06.04.1994** Service defect: 'B - MECHANICAL EQUIPMENT - 1 AIR HOSE REPLACED. 1 SHAFT COUPLING BOLT REPLACED. FRONT SAND BOX REPAIRED.'.
**06.04.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**06.04.1994** Service defect: 'B - TRACTION MOTOR - TRACTION MOTOR CABLES AND BRAKETS REPAIRED ON #4 AND #6 MOTORS.'.
**19.04.1994** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - ADJUSTED OIL SUPPLY TO POTENTIOMETER.'.
**19.04.1994** Service defect: 'UN - EXHAUST - EXHAUST PLUG REPLACED.'.
**26.05.1994** Service defect: 'A - ELECTRICAL MISC - FUSES/HOLDERS - HAND BRAKE SWITCH ADJUSTED.'.
**26.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED.'.
**08.07.1994** Service defect: 'UN - AUXILLARY MACHINES - AUXILLIARY GENERATOR BELT REPLACED.'.
**22.08.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REVERSER REPAIRS CARRIED OUT.'.
**22.08.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED LOW POWER. CHECKED ON LOAD TANK.'.

**ZC 20**

Details: locomotive 'ZC 20 C' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D

**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $114260
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1968
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1319
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 12.09.1996 | | |
| B Service Mileage: | 579062 KM | B Service Date: | 12.09.1996 |
| C Service Mileage: | 480988 KM | C Service Date: | 23.08.1994 |
| US Service Mileage: | 575906 KM | A Service Date: | 13.08.1996 |

**06.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE GREASED.'.
**10.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERIES WATERED (DRY).'.
**01.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - LEADING SET OF WHEELS CHANGED.(OUT OF ZC15)'.
**01.08.1989** Service defect: 'B - COOLING SYSTEM - WATER RAIL CLAMPS TIGHTENED.'.
**01.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**01.08.1989** Service defect: 'B - EXHAUST - BELLOWS REPL.'.
**01.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**07.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES),BATTERIES WATERED.'.
**01.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**12.09.1989** Service defect: 'UN - NO FAULT FOUND - CIRCUIT BREAKER & HOT PLATE TESTED 'OK'.'.
**14.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES.)'.
**18.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES)'.
**21.09.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**06.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**16.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**16.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - 200 LITRES OF SUMP OIL DRAINED & TOPPED UP.'.
**14.11.1989** Service defect: 'CA - BODY REPAIRS - ACCIDENT - COLLISION REPAIRS TO REAR END.'.
**22.11.1989** Service defect: 'C - CONTACTOR MISCELLANEOUS - ALL CONTACTS TRUED UP.'.
**22.11.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.& STEP LIGHT REPAIRED.'.
**22.11.1989** Service defect: 'C - GENERAL - JUMPER LEAD INSTALLED ON LOCO.'.
**22.11.1989** Service defect: 'C - MAIN GENERATOR BRUSHES - (3)BRUSHES REPL.'.
**22.11.1989** Service defect: 'C - MECHANICAL MAINTENANCE - SPEEDOMETER - F/SIDE SPEEDO BOX DRIVE REPAIRED.'.
**22.11.1989** Service defect: 'C - TRACTION MOTOR BRUSHES - (16)BRUSHES REPL.'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 12-12-89.'.
**06.04.1990** Service defect: 'B - AUXILLARY MACHINES - (4)AUX.GENERATOR BRUSHES REPL.'.
**06.04.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**06.04.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 02-04-90 AT 1600HRS.'.
**06.04.1990** Service defect: 'B - RADIO REPAIR - RADIO NO.79651 INSTALLED.'.
**06.04.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**23.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 11-04-90.'.
**23.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES.'.
**23.04.1990** Service defect: 'UN - NO FAULT FOUND - VIGILANCE CHECKED &TESTED OK.'.
**01.05.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**01.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.*LOCO BOOKED OUT AT 1730HRS ON 30-04-90.'.
**02.08.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBES.'.
**02.08.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - REPAIRED M.C.4.'.
**02.08.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO.2 HEAD ON 'A'&'B' BANK REPL.'.
**02.08.1990** Service defect: 'B - EXHAUST - (3)BELLOWS REPL.'.
**02.08.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 761169K/M.'.
**02.08.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (2)BRUSHES REPL.'.
**02.08.1990** Service defect: 'B - TRACTION MOTOR - (1)BELLOW REPL.'.
**02.08.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.&NO.5 MOTOR BRUSH BOX REPAIRED'.
**30.10.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**30.10.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - M.4.CONTACTOR REPLACED'.
**30.10.1990** Service defect: 'B - ENGINE - TAPPETS ADJUSTED'.
**30.10.1990** Service defect: 'B - GENERAL - SEATS LOWERED'.
**30.10.1990** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN CLUTCH CHANGED'.
**30.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT - EXHAUST BELLOW CHANGED'.
**30.10.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 T/M BRUSHES REPLACED'.
**19.02.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**19.02.1991** Service defect: 'B - FUEL SYSTEM LINES - NO.2 (B) H.P.PIPE TIGHTENED'.
**19.02.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 789130KM.'.

**19.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - TOP EXHAUST BELLOW RENEWED,FLANGE LUBE PIPE REPLACED, TRIMOUNTS GREASED'.
**19.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SANDS CLEARED'.
**06.06.1991** Service defect: 'TW - GENERAL - ****** A SERVICE ******'.
**06.06.1991** Service defect: 'TW - MECHANICAL EQUIPMENT - T/M BLOWER REPLACED'.
**02.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CONTROL EARTHS TRACED & CLEARED'.
**03.07.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - MAIN CONTROL CIRCIUT BREAKER REPLACED'.
**23.10.1991** Service defect: 'CA - OTHER BODY REPAIRS - LOCO CAB REBUILT A/C COLLISION DAMAGE'.
**04.11.1991** Service defect: 'UN - BOGIE - GEAR CASE REPAIRED'.
**04.11.1991** Service defect: 'UN - FUEL SYSTEM - 1 & 5 'B' BANK FUEL CAM FOLLOWERS ADJUSTED'.
**07.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDING PIPES BLOCKED.'.
**22.05.1992** Service defect: 'C - ENGINE - TIMING CHAIN ADJUSTED.'.
**22.05.1992** Service defect: 'C - FUEL SYSTEM INJECTORS - FUEL INJECTORS CHANGED.'.
**28.05.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND TRAP REPLACED.'.
**28.05.1992** Service defect: 'UN - NO FAULT FOUND - B P PRESSURE NO FAULT FOUND.'.
**06.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DAMP SAND CLEARED FROM SANDERS.'.
**13.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**13.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE BLOCKS CHANGED AND ADJUSTED.'.
**19.06.1992** Service defect: 'TW - OTHER BODY REPAIRS - WINDOW SEAL REPAIRED.'.
**19.06.1992** Service defect: 'TW - RADIO REPAIR - RADIO HANDSET REPLACED.'.
**23.06.1992** Service defect: 'UN - NO FAULT FOUND - FAULT WITH MAIN CIRCUIT BREAKER THROWING OUT WHEN DIRECTION SELECTED. THERE WAS NO FAULT FOUND.'.
**01.07.1992** Service defect: 'UN - GENERAL - OIL ON FOOTPLATE FROM ENGINE EXHAUST. FOOTPLATE CLEANED.'.
**23.07.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**25.07.1992** Service defect: 'UN - NO FAULT FOUND - FAULT SUSPECTED IN PHONE/RADIO POWER SUPPLY A CHECK WAS CARRIED OUT ON UNIT WITH NO FAULTS BEING FOUND.'.
**31.07.1992** Service defect: 'UN - NO FAULT FOUND - REPORTED AMPS FAULT CAUSED BY JUMPER CABLE FALLING OUT WHEN COUPLED TO ZC42.'.
**03.08.1992** Service defect: 'TS - NO FAULT FOUND - FAULT LOW AMPS AT MAX POWER SETTING. NO FAULT FOUND, THOUGHTTO BE COLD GOVERNOR OIL AT TIME OF FAULT.'.
**10.08.1992** Service defect: 'UN - ENGINE GOVERNOR - HOLE IN AIR PIPE TO GOVERNOR REPAIRED.'.
**19.08.1992** Service defect: 'TW - RADIO REPAIR - RADIO/PHONE POWER SUPPLY REPLACED.'.
**26.08.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FIREMANS SIDE WINDOW WIPER REPAIRED.'.
**03.09.1992** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - GOVERNOR SENSITIVITY SCREW ADJUSTED.'.
**23.09.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.10.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - FIELD DIVERT CONTACTOR NUMBER 1 CONTACTS RENEWED.'.
**07.10.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.
**07.10.1992** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOWS REPLACED.'.
**07.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT - 2 GLASS FILTERS AND 1 FLANGE LUBE NOZZLE REPLACED.'.
**07.10.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**07.10.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND BRAKES ADJUSTED.'.
**07.10.1992** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 TRACTION MOTOR BRUSHES REPLACED.'.
**26.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**05.11.1992** Service defect: 'UN - NO FAULT FOUND - EQUALISING PRESSURE FAULT REPORTED. NO FAULT FOUND.'.
**10.11.1992** Service defect: 'UN - CONTACTOR MISCELLANEOUS - LOW AMPS FAULT REPORTED. FIELD DIVERSION CONTACTS STATIC CHECK. TEST RUN TOMORROW.'.
**13.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DAMAGED SANDBOX REPAIRED.'.
**13.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MISSING BRAKE HANGER REPLACED.'.
**17.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - MISSING BRAKE ADJUSTER REPLACED.'.
**20.01.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**06.02.1993** Service defect: 'UN - NO FAULT FOUND - AMPS FAULT REPORTED AND EARTH LINK OUT. CHECKED AND NO FAULTFOUND.'.
**15.02.1993** Service defect: 'TW - TRACTION MOTOR EARTH - NUMBER 1 TRACTION MOTOR CABLES WORN. CABLES REINSULATED.'.
**20.02.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED FLUCTUATING AMPS. CHECKED AND TEST RUN NO FAULT FOUND.'.
**23.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - CHECK. SANDERS CLEARED.'.
**26.02.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED DROPPING AMPS. CHECKED AND NO FAULT FOUND.'.
**03.03.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - EARTH FAULT RELAY REPAIRED.'.
**05.03.1993** Service defect: 'UN - NO FAULT FOUND -

REPORTED LOW BOOST PRESSURE AND SMOKE COMING FROM TRACTION MOTORS. CHECKED AND NO FAULT FOUND.'.

**10.03.1993** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - CRANKCASE INDICATOR RELAY REMOVED FROM CIRCUIT.'.

**18.03.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 1 NEW CAB LIGHT INSTALLED.'.

**18.03.1993** Service defect: 'B - ENGINE LINER - NUMBER 6B LINER REPLACED.'.

**18.03.1993** Service defect: 'B - ENGINE PISTON - NUMBER 6B PISTON REPLACED.'.

**18.03.1993** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOWS REPLACED.'.

**18.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT - WATER GAUGE COCK REPLACED. 2 FLANGE LUBE NOZZLES SET TO WHEEL.'.

**18.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPAIRED. SANDERS CLEARED.'.

**18.03.1993** Service defect: 'B - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.

**18.03.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 SETS OF TRACTION MOTOR BRUSHES REPLACED.'.

**03.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**03.04.1993** Service defect: 'UN - NO FAULT FOUND - EARTH FAULTS REPORTED. CHECKED AND NO FAULT FOUND.'.

**06.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**06.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AS SLOW TO PICK UP POWER. THIS LOCOMOTIVE IS SLOW TO PICK UP POWER COMPARED TO LATER ZC LOCOS. NO FAULT FOUND.'.

**08.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**29.04.1993** Service defect: 'TW - EARTH FAULT MISCELLANEOUS - LIGHTING CIRCUIT EARTH FAULT CLEARED.'.

**07.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AS DROPPING AMPS UNDER FULL LOAD. CHECKED AND TAKENFOR TEST RUN TO ROCHERLEA. NO FAULT FOUND.'.

**14.05.1993** Service defect: 'UN - CONTACTOR MISCELLANEOUS - FITTER T. STEARNS REPORTED THAT MC5 MECHANISM WORN. M3 OVERLOAD RETURN SPRING STICKING SOMETIMES.'.

**14.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED EARTH FAULT IN NUMBER 2 AND 5 TRACTION MOTORS. CHECKED AND NO FAULT FOUND.'.

**19.05.1993** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - CURRENT LIMITING RELAYS 1 AND 2 RESET.'.

**29.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - NEW GASKETS FITTED TO FLEXMASTER COUPLING.'.

**29.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR LEAK REPAIRED IN COMPRESSOR COMPARTMENT.'.

**04.06.1993** Service defect: 'TW - BOGIE - TRACTION MOTOR COVER REPAIRED.'.

**04.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - DERAILMENT DAMAGED SAND PIPES REPAIRED.'.

**05.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - ENGINE ROOM START BUTTON STUCK. FREED UP WITH PENETRATING LUBRICANT.'.

**12.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**12.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**21.06.1993** Service defect: 'B - COOLING SYSTEM - WATER LEAKS REPAIRED ON A BANK WATER RAIL.'.

**21.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WINDSCREEN WIPER REPAIRED.'.

**21.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED.'.

**21.06.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**05.07.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT RIBBONS MODIFICATION CARRIED OUT ON GAUGES.'.

**05.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATER MODS CARRIED OUT.'.

**10.07.1993** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - DYNAMIC BRAKE CURRENT RELAY RESET. ADJUSTED FIELD DIVERSION RELAYS.'.

**22.07.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**04.10.1993** Service defect: 'UN - BOGIE MAINTENANCE - WICKS - AXLE WICKS REPLACED.'.

**04.10.1993** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN WINDOW REPLACED.'.

**30.11.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**28.01.1994** Service defect: 'TW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER OIL TOPPED UP.'.

**28.01.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**10.02.1994** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - LOCOMOTIVE WAS TAKEN OUT OF SERVICE DUE TO SHARP WHEEL FLANGES. MR BELL THINKS THEY WILL DO A WHILE YET. O.K.LET GO'.

**17.02.1994** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT WIPER BLADE REPLACED.'.

**17.02.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.

**17.02.1994** Service defect: 'B - NO FAULT FOUND - NO ELECTRICAL SERVICE SHEET RECEIVED AT THIS TIME.'.

**18.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**01.03.1994** Service defect: 'TW - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO OIL TOPPED UP.'.

**01.03.1994** Service defect: 'TW - MECHANICAL EQUIPMENT - LUBES CHECKED.'.

**10.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**15.03.1994** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - REAR HEADLIGHT REPLACED. WIRING TO HEADLIGHT REPAIRED.'.

**15.03.1994** Service defect: 'UN - MECHANICAL

MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**15.03.1994** Service defect: 'UN - RADIO REPAIR - PHONE REPAIRED.'.
**15.08.1994** Service defect: 'UN - BOGIE - BOGIE CHANGE CARRIED OUT.**********'.
**23.08.1994** Service defect: 'C - CONTACTOR MISCELLANEOUS - MC RELAYS REPLACED WITH ALL NEW CONTACTS.**********COMPRESSOR EP VALVE REPLACED.'.
**23.08.1994** Service defect: 'C - ELECTRICAL MAINTENANCE -WIRING - FLANGE LUBE WIRING REPAIRED.'.
**23.08.1994** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR DOOR SWITCH REPAIRED.'.
**23.08.1994** Service defect: 'C - EXHAUST - 2 EXHAUST BELLOWS GASKETS REPLACED.'.
**23.08.1994** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 2 SANDER VALVES REPLACED. 1 FLANGE LUBE PIPE REPLACED.'.
**23.08.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTERS REPLACED. INDEPENDANT BRAKE HOSE REPLACED.'.

**ZC 21**

**19.07.1989** Service defect: 'UN - TRACTION MOTOR - NO.3 MOTOR REPL.'.
**02.08.1989** Service defect: 'B - ELECTRICAL MISC - LOAD REGULATOR - POTENTIOMETER & COVER REPL.'.
**02.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**02.08.1989** Service defect: 'B - ENGINE WATER LEAK - WATER PIPE ON 'B' BANK REPAIRED.'.
**02.08.1989** Service defect: 'B - EXHAUST - (1)EXHAUST BELLOW REPL.'.
**02.08.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (6)BRUSHES REPL.'.
**02.08.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**02.08.1989** Service defect: 'B - TRACTION MOTOR EARTH - NO.3&4 MOTORS REPAIRED.(EARTH)'.
**02.08.1989** Service defect: 'B - VIGILANCE - TIMER ADJ.'.
**04.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATERS REPAIRED & LOCO CHECKED ELECT.'OK'(JUMPING).'.
**07.08.1989** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - REPAIRED FIRE ALARM RELAY (WELDED CONTACTS).'.
**09.08.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED LOAD REGULATOR 'OK'.'.
**30.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**30.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**30.08.1989** Service defect: 'TW - RADIO REPAIR - RADIO REPL.'.
**07.09.1989** Service defect: 'UN - NO FAULT FOUND - EXHAUST SYSTEM CHECKED FOR FUMES.'OK''.
**12.09.1989** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.
**14.09.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED FAULT HORN.'.
**14.09.1989** Service defect: 'UN - NO FAULT FOUND - D/BRAKE TESTED 'OK'.'.
**18.09.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**22.09.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - LAMP REPL.'.
**22.09.1989** Service defect: 'UN - EXHAUST - EXHAUST SYSTEM CHECKED FOR FUMES 'OK'.'.
**22.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - OIL CHANGED.'.
**22.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**30.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**11.10.1989** Service defect: 'TS - ENGINE CYLINDER HEADS - NO.5 'B' BANK HEAD REPL.'.
**11.10.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**11.10.1989** Service defect: 'TS - TRACTION MOTOR BURNTOUT - NO.3 MOTOR REPL.(CAUGHT ON FIRE)'.
**01.11.1989** Service defect: 'B - CONTACTOR MISCELLANEOUS - BMR,WS1,WS2 & WS3 CONTACTS CLEANED.'.
**01.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (14)LAMPS REPL.& FIRE WARNING LAMP REPL.'.
**01.11.1989** Service defect: 'B - ENGINE - REPL.CAM FOLLOWER NO.4 'A'BANK.'.
**01.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (7)BLOCKS REPL.'.
**08.11.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - BMR CONTACTS FAULTY .*TO BE REPAIRED NEXT SERVICE.'.
**06.12.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**06.12.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**06.12.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED.'.
**06.12.1989** Service defect: 'TW - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**12.03.1990** Service defect: 'UN - GENERAL - LOCO BOOKED OUT ON 20-12-89'.
**22.03.1990** Service defect: 'B - AUXILLARY MACHINES - (2)AUX.GENERATOR BRUSHES REPLACED.'.
**22.03.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL CONTACTS TRUED UP.'.
**22.03.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - FAR RELAY REPLACED.'.
**22.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPLACED.'.
**22.03.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO.5 'B'BANK HEAD GASKET REPLACED.'.
**22.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (6)BRUSHES REPLACED.'.
**22.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (4)BLOCKS REPLACED & ALL BRAKES ADJ.'.
**22.03.1990** Service defect: 'B - RADIO REPAIR - REPLACED HAND SET.'.
**22.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (10)BRUSHES REPLACED.'.
**06.04.1990** Service defect: 'UN - COOLING SYSTEM WATER PUMP - RENEWED WATER PUMP.'.
**06.04.1990** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CONTROL PANELS REPLACED.(TESTED 'OK')'.
**06.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED

OUT ON 04-04-90 AT 1800HRS.'.
**06.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**30.05.1991** Service defect: 'UN - WHEELS 1MM'.

### ZC 22

**03.07.1989** Service defect: 'UN - EXHAUST - REPL. MISSING PLUG & EXHAUST BOLTS TIGHTENED.'.
**03.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**03.07.1989** Service defect: 'UN - NO FAULT FOUND - TURBO CHECKED 'OK'.'.
**12.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.'.
**12.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**12.07.1989** Service defect: 'TW - RADIO REPAIR - HANDSET SECURED.'.
**21.07.1989** Service defect: 'UN - EXHAUST - EXHAUST SYSTEM CHECKED FOR FUMES.'.
**21.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**21.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED BOOST 'OK'.'.
**26.07.1989** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - BLOWER MOTOR RELAY REPL.'.
**28.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS REPAIRED.'.
**01.08.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - LEAK REPAIRED.'.
**06.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**06.09.1989** Service defect: 'TW - OTHER BODY REPAIRS - STEP REPAIRED.'.
**06.09.1989** Service defect: 'TW - TRACTION MOTOR EARTH - EARTH FAULT ON NO.6 T/MOTOR.'.
**15.09.1989** Service defect: 'B - COOLING SYSTEM RADIATOR - RADIATOR ELEMENT REPL.'.
**15.09.1989** Service defect: 'B - ENGINE WATER LEAK - WATER JOINTS TIGHTENED.'.
**15.09.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**18.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (15)LAMPS REPL.'.
**18.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE. *WRONG BOOKING SHOULD BE 17-10-89.'.
**18.10.1989** Service defect: 'TW - TRACTION MOTOR - REPL.COVER.'.
**25.10.1989** Service defect: 'UN - NO FAULT FOUND - TESTED BOOST & VIG. 'OK'.'.
**25.10.1989** Service defect: 'UN - RADIO REPAIR - REPAIRED RADIO.'.
**02.11.1989** Service defect: 'UN - NO FAULT FOUND - COMPRESSOR UNLOADER TESTED 'OK'.'.
**02.11.1989** Service defect: 'UN - RADIATOR/PRESSURISING FAN - REPL.FAN BEARINGS.'.
**07.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPL.TDR 2 SWITCH IN COMPRESSOR.'.
**07.11.1989** Service defect: 'UN - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**13.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**13.11.1989** Service defect: 'TW - GENERAL - FLOOR REPAIRED.'.
**13.11.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**12.03.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - WTR RELAY TAKEN OFF & REPAIRED.'.
**12.03.1990** Service defect: 'B - ELECTRICAL MISC. JUMPER CABLES - JUMPER PUT ON LOCO.'.
**12.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)GLOBES REPLACED.'.
**12.03.1990** Service defect: 'B - ENGINE - RE-TIGHTENED ENGINE MOUNTING BOLTS.'.
**12.03.1990** Service defect: 'B - ENGINE CYLINDER HEADS - RE-TENSIONED HEAD ON NO.3 'B'BANK.'.
**12.03.1990** Service defect: 'B - FUEL SYSTEM PUMP - CHANGED FUEL PUMP WASHER ON NO.2 'A' BANK.'.
**12.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 12-12-89.'.
**12.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (4) MAIN GENERATOR BRUSHES REPLACED.'.
**12.03.1990** Service defect: 'B - TRACTION MOTOR - (16)TRACTION MOTOR BRUSHERS REPLACED CABLES SECURED BACK.'.
**12.03.1990** Service defect: 'B - TRACTION MOTOR - CHANGED TRACTION MOTOR BELLOW.'.
**30.05.1991** Service defect: 'UN - DUE FOR (F) SERVICE,FLANGE 2MM,TURBO NOISY'.

### ZC 24

**03.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED.'.
**06.07.1989** Service defect: 'UN - NO FAULT FOUND - RADIO CHECKED 'OK'.'.
**08.08.1989** Service defect: 'UN - GENERAL - TESTED ON LOAD TANK.(SMOKING BADLY)'.
**15.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - AIR LEAK REPAIRED.'.
**25.08.1989** Service defect: 'TW - BOGIE - REPAIRED MANGANESE PLATES.'.
**25.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**25.08.1989** Service defect: 'TW - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR SHAFT REPL.'.
**25.08.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**19.09.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.& SOCKET SECURED.'.
**19.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**09.10.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - GASKET REPL.ON NO.2 'B'BANK.'.
**09.10.1989** Service defect: 'UN - EXHAUST - (2)BELLOWS REPL.'.
**09.10.1989** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PUMP REPL.ON NO.2 'B'BANK.'.
**09.10.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.
**23.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - W/WIPER REPAIRED.'.
**23.10.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**26.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPL. GAUGE LAMPS.'.
**26.10.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**27.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (9)LAMPS REPL.& F/ALARM REPL.'.

**27.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**02.11.1989** Service defect: 'B - BOGIE - F/LUBE PIPE RENEWED.'.
**02.11.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - NO.6 AXLE CRACKED.'.
**02.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**02.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - SOUND WARNING - BOTH HORNS MADE WORKABLE.'.
**07.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**07.11.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**07.11.1989** Service defect: 'UN - OTHER BODY REPAIRS - CAB FLOOR REPAIRED.'.
**10.11.1989** Service defect: 'UN - GENERAL - REPAIRED CLOCK WINDER.'.
**10.11.1989** Service defect: 'UN - NO FAULT FOUND - AMPS,RADIO &VIG.TESTED 'OK'.'.
**23.11.1989** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - REPAIRED WIRING IN SPEEDO PLUG.'.
**30.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 15-12-89.'.
**19.03.1990** Service defect: 'UN - GENERAL - ENGINE TOP OVERHAUL.'.
**24.04.1990** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - FAULTY JUMPER CABLE. JUMPER REPLACED'.
**24.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - INDEP. BRAKE CHECKED, OK.'.
**26.04.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOCO JUMPED STARTED, VOLTAGE (CONTROL) ADJUSTED OK.'.
**26.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE CHANGED.'.
**08.05.1990** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**08.05.1990** Service defect: 'TW - GENERAL - 'A'SERVICE.*LOCO BOOKED OUT ON 05-05-90.'.
**28.05.1990** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR CHANGED, VOLTAGE& CHARGE CURRENT CHECKED OK.'.
**28.05.1990** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOCO JUMP STARTED.'.
**28.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON THE 24-05-1990 AT 1600HRS.'.
**06.07.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO.1 'B'BANK HEAD REPL.'.
**06.07.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 589142K/M.'.
**06.07.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - REPL.SAND HOSE.'.
**26.09.1990** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - ADJ.FROM 117 V TO 112.6 V.'.
**30.05.1991** Service defect: 'UN - STORED'.
**99.99.9999** Service defect: 'SW - STORED'.

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**16.10.1989** Service defect: 'CA - BOGIE MAINTENANCE - WHEELS - WHEELS WORN OUT (BOGIE CHANGE)'.
**18.10.1989** Service defect: 'B - AUXILLARY MACHINES - (2)AUX.GEN BRUSHES REPL.'.
**18.10.1989** Service defect: 'B - BOGIE - RUBBING PADS FITTED ON BOGIES.'.
**18.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**18.10.1989** Service defect: 'B - EXHAUST - (1)BELLOW REPL.'.
**18.10.1989** Service defect: 'B - GENERAL - NEW SEATS FITTED.'.
**18.10.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (9)BRUSHES REPL.'.
**18.10.1989** Service defect: 'B - MECHANICAL EQUIPMENT - MAIN RESERVIOR AIR PIPE RUBBERS RENEWED.'.
**18.10.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES SET TO RAIL & SEVERAL NEW ONES FITTED.'.
**18.10.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**18.10.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (2)BRUSHES REPL.'.
**26.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**26.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - DOOR SEALS CHECKED FOR DRAUGHTS.'.
**01.11.1989** Service defect: 'UN - OTHER BODY REPAIRS - REPAIRED CAB FLOOR.'.
**28.11.1989** Service defect: 'UN - COOLING SYSTEM - CHANGED WATER.'.
**28.11.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED ELECTRICALLY 'OK'.'.
**28.11.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED NOISE IN BACK PANEL 'OK'.'.
**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 22-12-89.'.
**13.03.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - (1)FLANGE LUB.MADE WORKABLE.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - POWER 3 MEG CONTROL 0.25 MEG (RAG REMOVED FROM FRONT CUBICAL'.
**13.03.1990** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK ON WATER RAIL TIGHTENED.'.
**13.03.1990** Service defect: 'B - EXHAUST - (2)BELLOWS CHANGED.'.
**13.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 17-01-90.SPEEDO READ 554051K/M.'.
**13.03.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS RENEWED.'.
**22.03.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**23.04.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - REPAIRED (2)M.C. & REPLACED (6) M.C. CONTACTS.'.
**23.04.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REPAIRED FLANGE LUBE WIRING.'.
**23.04.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - REPLACED (13) LIGHT GLOBES.'.
**23.04.1990** Service defect: 'B - ENGINE - TIMING CHAIN ADJUSTED.'.
**23.04.1990** Service defect: 'B - ENGINE WATER LEAK - WATER LEAKS TIGHTENED UP.'.
**23.04.1990** Service defect: 'B - GENERAL - *LOCO BOOKED

OUT ON 20-04-90.'.
**23.04.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - REPLACED (14) GENERATOR BRUSHES CLEANED MAIN GENERATOR.'.
**23.04.1990** Service defect: 'B - MECHANICAL EQUIPMENT - BLOWER DRAINS CLEARED.'.
**23.04.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPE & VALVE RENEWED.'.
**23.04.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**23.04.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - REPLACED (1)TRACTION MOTOR BRUSH, CLEANED T.M.INSULATORS AND REPLACED (1)COVER. REPAIRED T.M. CABLE (RELUGGED).'.
**30.05.1991** Service defect: 'UN - TOP O/HAUL'.

**ZC 27**

**12.03.1990** Service defect: 'UN - GENERAL - LOCO BOOKED OUT ON 15-11-89.'.
**03.05.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - F/LUBE PIPE REPL.'.
**03.05.1990** Service defect: 'B - EXHAUST - (2)BELLOWS REPL.'.
**03.05.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 424290K/M.'.
**03.05.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (3)BRUSHES REPL.'.
**03.05.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND VALVE REPL.'.
**03.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**03.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - REPL.F/SIDE SPEEDO LIGHT RESISTOR .'.
**03.05.1990** Service defect: 'B - RADIO REPAIR - RADIO & H/SET REPL.'.
**04.09.1990** Service defect: 'B - ELECTRICAL MISC - LOAD REGULATOR - POTENTIOMETER COVER REPL.& CONDUIT TO LOW WATER SWITCH REP.'.
**04.09.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**04.09.1990** Service defect: 'B - ENGINE WATER LEAK - REPAIRED WATER LEAKS.'.
**04.09.1990** Service defect: 'B - EXHAUST - BELLOWS REPL.'.
**04.09.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 434789K/M.'.
**04.09.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**30.05.1991** Service defect: 'UN - STORED'.
**99.99.9999** Service defect: 'SW - STORED'.

**ZC 28**

Details: locomotive 'ZC 28 F' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $117780
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1968
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1327
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| B Service Mileage: | 691795 KM | B Service Date: | 18.09.1989 |
| US Service Mileage: | 718691 KM | A Service Date: | 06.06.1991 |

**04.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**04.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ. & BRAKE ADJUSTER RENEWED.(BENT).'.
**21.07.1989** Service defect: 'UN - TRACTION MOTOR EARTH - NO.3 & 4 MOTORS CHECKED REPAIRED NO.4 MOTOR.'.
**26.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES.)'.
**28.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED 'OK'.'.
**01.08.1989** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - REPAIRED WIRING IN PLUG TO ENGINE ROOM & MAGNETIC COUPLING.'.
**01.08.1989** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - (2)LAMPS REPL.'.
**01.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - REPL. NUMEROUS LAMPS.'.
**01.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**02.08.1989** Service defect: 'UN - TRACTION MOTOR EARTH - NO.3 & NO.4 MOTORS REPL.'.
**14.08.1989** Service defect: 'UN - TRACTION MOTOR EARTH - MOTORS CHANGED A/C EARTHS'.
**23.08.1989** Service defect: 'UN - OTHER BODY REPAIRS - CHECKED FOR FUMES.'.
**18.09.1989** Service defect: 'B - ENGINE WATER LEAK - WATER CLAMPS TIGHTENED.'.
**18.09.1989** Service defect: 'B - MAIN GENERATOR - V RING & INSULATORS CLEANED.'.
**18.09.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (8) BRUSHES REPL.'.
**18.09.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**18.09.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**02.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**02.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - ENGINE ROOM DOOR SECURED.'.
**16.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (11)LAMPS REPL.'.
**16.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**16.10.1989** Service defect: 'TW - NO FAULT FOUND - RADIO TESTED 'OK'.'.
**19.10.1989** Service defect: 'UN - ENGINE WATER LEAK - REPAIRED WATER LEAKS.'.
**19.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**24.10.1989** Service defect: 'UN - ENGINE CYLINDER HEADS - SEVERAL TAPPETS ADJ.'.
**24.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.

**22.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**22.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**13.03.1990** Service defect: 'TW - GENERAL - *LOCO BOOKED OUT ON 30-01-90.'.
**30.05.1991** Service defect: 'UN - DUE FOR (F) SERVICE'.

**ZC 29**

**11.07.1989** Service defect: 'TS - ELECT. MISC. - GAUGES & INSTRUMENTS - REPAIRED GAUGE LIGHT.'.
**11.07.1989** Service defect: 'TS - EXHAUST - CHECKED EXHAUST SYSTEM FOR FUMES 'OK'.'.
**11.07.1989** Service defect: 'TS - RADIO REPAIR - RADIO TESTED 'OK'.'.
**11.07.1989** Service defect: 'TS - VIGILANCE - ALERTING SYSTEM TESTED 'OK'.(FOOTSWITCH JAMMED BY DRIVERS)'.
**14.07.1989** Service defect: 'UN - -
**14.07.1989** Service defect: 'UN - EXHAUST - SMOKING BADLY (CHECKED EXHAUST SYSTEM)'.
**18.07.1989** Service defect: 'UN - EXHAUST - EXHAUST SYSTEM CHECKED FOR FUMES.'.
**18.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - SIDE WINDOW REPAIRED.'.
**18.07.1989** Service defect: 'UN - RADIO REPAIR - RADIO TESTED 'OK'.'.
**21.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHTS REPAIRED.'.
**21.07.1989** Service defect: 'UN - EXHAUST - EXHAUST SYSTEM CHECKED FOR FUMES.'.
**03.08.1989** Service defect: 'B - AUXILLARY MACHINES - (4) AUX.GENERATOR BRUSHES REPL.'.
**03.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**03.08.1989** Service defect: 'B - ELECTRICAL MISC. JUMPER CABLES - JUMPER CABLE REPL.'.
**03.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**03.08.1989** Service defect: 'B - ENGINE - HEAD RELIEF VALVE REPL.& NO.6'B' BANK TAPPETS ADJ.'.
**03.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (1)SANDPIPE REPL.'.
**03.08.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (2)BLOCKS REPL. & ALL BRAKES ADJ.'.
**03.08.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**03.08.1989** Service defect: 'UN - GENERAL - TESTED ON LOAD TANK FOR FUMES.'OK'.'.
**22.08.1989** Service defect: 'UN - GENERAL - M.R.ISOLATING COCK REPL.'.
**22.08.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED ELECT.'OK''.
**11.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**11.09.1989** Service defect: 'TW - NO FAULT FOUND - RADIO & HANDSET TESTED 'OK'.'.
**14.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.& CHECKED.'.
**14.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE NEEDS REPL.(NONE AVAILABLE)'.
**22.09.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - LAMP REPL.'.
**26.09.1989** Service defect: 'UN - ENGINE WATER LEAK - WATER PIPE JOINT REPL.'.
**29.09.1989** Service defect: 'UN - GENERAL - F/SIDE SEAT REPAIRED.'.
**29.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**29.09.1989** Service defect: 'UN - NO FAULT FOUND - FLOW METER CHECKED 'OK'.'.
**04.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - REPAIRED OIL LEAK.'.
**04.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**09.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.'.
**09.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**09.10.1989** Service defect: 'TW - TRACTION MOTOR - COVER REPL.'.
**12.10.1989** Service defect: 'UN - GENERAL - DRIVERS SEAT REPAIRED.'.
**20.10.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**01.11.1989** Service defect: 'UN - COOLING SYSTEM RADIATOR - REPAIRED WATER LEAKS.'.
**10.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**10.11.1989** Service defect: 'B - ENGINE WATER LEAK - HOSE ON WATER RAIL TIGHTENED UP.'.
**10.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (8)BLOCKS REPL. & ALL BRAKES ADJ.'.
**10.11.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (22)BRUSHES REPL.'.
**17.11.1989** Service defect: 'UN - CONTACTOR WELDED - BLOWER MOTOR RELAY REPL.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**13.03.1990** Service defect: 'B - GENERAL - LOCO BOOKED OUT ON 22-02-90.SPEEDO READ 607928K/M.'.
**13.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (8)BRUSHES REPL.'.
**30.05.1991** Service defect: 'UN - DUE FOR (F) SERVICE'.

**ZC 31**

**08.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**08.08.1989** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - REPL.BOOST DETECTION RELAY.'.
**08.08.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPL.'.
**08.08.1989** Service defect: 'B - ENGINE - NO.5 'A'BANK INLET ROLLER REPL.'.
**08.08.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - RENEWED (1)SANDBOX. (MISSING)'.
**08.08.1989** Service defect: 'B - OTHER BODY REPAIRS - BRACKET ON 'B'BANK SIDE ROOF FITTED.'.
**08.08.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (12)BRUSHES REPL.'.
**15.08.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - REPL.HEATER SWITCH.'.
**15.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPL.FAULT HORN.'.

**24.10.1989** Service defect: 'TW - ELECTRICAL MISC. JUMPER CABLES - JUMPER INSTALLED.'.
**24.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.& STEP LIGHT REPAIRED.'.
**24.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**15.11.1989** Service defect: 'UN - NO FAULT FOUND - LOCO BOOST TESTED 'OK'.'.
**16.11.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED FOR ROUGH RIDING,FUMES & BOOST 'OK'.'.
**27.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**27.11.1989** Service defect: 'B - EXHAUST - PLUG RENEWED.'.
**27.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT - WIPER & REAR WIPER MOTOR RENEWED.'.
**27.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - REPL SAND BOX LID.'.
**27.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE RENEWED.'.
**27.11.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (10)BRUSHES REPL.'.
**29.11.1989** Service defect: 'UN - COOLING SYSTEM - WATER LEAKS REPAIRED.'.
**29.11.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED BY ELECT.'OK'.'.
**13.12.1989** Service defect: 'UN - NO FAULT FOUND - VIGILANCE TESTED 'OK'.'.
**26.03.1990** Service defect: 'TW - ENGINE CYLINDER HEADS - NO.6 'A'BANK HEAD REPL.'.
**26.03.1990** Service defect: 'TW - GENERAL - 'C'SERVICE COMPLETED.'.
**28.03.1990** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED NEAR OIL FILLER CAP.'.
**30.05.1991** Service defect: 'UN - STORED'.
**99.99.9999** Service defect: 'SW - STORED'.

**ZC 32**

Details: locomotive 'ZC 32 F' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1970
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1331
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| SW Service Mileage: | 587986 KM | SW Service Date: | 24.09.1991 |
| A Service Mileage: | 588188 KM | A Service Date: | 15.10.1994 |
| B Service Mileage: | 681850 KM | B Service Date: | 24.07.1996 |
| C Service Mileage: | 541379 KM | C Service Date: | 19.10.1993 |
| US Service Mileage: | 683658 KM | A Service Date: | 05.08.1996 |

**28.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6) LAMPS REPL.'.
**28.08.1989** Service defect: 'TW - RADIO REPAIR - RADIO WIRING REPAIRED & HANDSET REPL.'.
**10.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - BATTERY CHANGED.'.
**10.10.1989** Service defect: 'UN - MECHANICAL AIR BRAKE REPAIRS - ACCIDENT - REPAIRED AIR PIPE (BROKEN).'.
**10.10.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - GREASED HANDBRAKE.'.
**11.10.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES)'.
**11.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**23.10.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED & (2)F/LUBE NOZZLES RENEWED.'.
**23.10.1989** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.'.
**23.10.1989** Service defect: 'C - EXHAUST - (2)BELLOWS RENEWED.'.
**23.10.1989** Service defect: 'C - MECHANICAL EQUIPMENT - REPAIRED H/BRAKE.'.
**23.10.1989** Service defect: 'C - TRACTION MOTOR BRUSHES - REPL.BRUSHES IN TOP OF ALL MOTORS,NO.1 MOTOR B/BOX REPL.'.
**26.10.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - LAMP REPL.'.
**26.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TDR1 TIMMER REPL.'.
**31.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - IND.BRAKE HEAD REPL.& ALL BRAKES ADJ.'.
**31.10.1989** Service defect: 'UN - NO FAULT FOUND - AMPS,RADIO & VIGILANCE TESTED 'OK'.'.
**12.03.1990** Service defect: 'TW - GENERAL - *LOCO BOOKED OUT ON 18-12-89.'.
**13.03.1990** Service defect: 'B - AUXILLARY MACHINES - (2)AUX.GEN. BRUSHES REPL.'.
**13.03.1990** Service defect: 'B - BOGIE - GEAR CASES REPAIRED.'.
**13.03.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE NOZZEL FITTED.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - B.D.R.1 RELAY REPL.'.
**13.03.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**13.03.1990** Service defect: 'B - EXHAUST - EXHAUST BELLOWS REPLACED.'.
**13.03.1990** Service defect: 'B - GENERAL - *LOCO BOOKED OUT ON 20-02-90.SPEEDO READ 518949K/M.'.
**13.03.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (4)BRUSHES REPL.'.
**13.03.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**13.03.1990** Service defect: 'B - VIGILANCE - SONALERT REPL.'.
**13.03.1990** Service defect: 'TW - GENERAL - (A)SERVICE.'.
**03.04.1990** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**21.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 10-05-90 AT 1600HRS.'.
**21.05.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - REPAIRED SAND BOX.'.

**21.05.1990** Service defect: 'UN - NO FAULT FOUND - VIGILANCE CHECKED 'OK'.'.
**21.05.1990** Service defect: 'UN - RADIO REPAIR - RADIO REPL.'.
**22.05.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (9)LAMPS REPL.'.
**22.05.1990** Service defect: 'B - ENGINE WATER LEAK - WATER HOSES ON 'A'BANK WATER RAIL TIGHTENED.'.
**22.05.1990** Service defect: 'B - FUEL SYSTEM PUMP - REPL.NO.5 'A'BANK PUMP.'.
**22.05.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (1)BRUSH REPL.'.
**22.05.1990** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - REPAIRED FAULTY UNLOADER.'.
**22.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (7)BLOCKS REPL.& ADJ.'.
**22.05.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (5)BRUSHES REPL.'.
**22.08.1990** Service defect: 'B - AUXILLARY MACHINES - (5)BRUSHES REPL.(AUX.GEN.)'.
**22.08.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - REPAIRED F/LUBE PIPE.'.
**22.08.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - REPL.RELAY CONTACT BLOCK ON B.D.R.1.'.
**22.08.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**22.08.1990** Service defect: 'B - EXHAUST - (1)BELLOW REPL.'.
**22.08.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 554513K/M.'.
**22.08.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (8)BRUSHES REPL.'.
**22.08.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**22.08.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (5)BRUSHES REPL.'.
**08.02.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**08.02.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 5 LAMPS REPLACED'.
**08.02.1991** Service defect: 'B - ENGINE WATER LEAK - WATER PIPE REPAIRED'.
**08.02.1991** Service defect: 'B - FUEL SYSTEM PUMP - (A) FUEL PUMP WASHER CHANGED'.
**08.02.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 564975KM.'.
**08.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 3 T/M BELLOWS REPLACED,EXHAUST BELLOW CLAMPS TIGHTENED'.
**08.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - T/M BLOWER BOLTS TIGHTENED'.
**08.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX WELDED,'.
**08.02.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED,BRAKE ADJUSTER AND HANGER RUBBING PLATE REPLACED'.
**08.02.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 T/M BRUSHES REPLACED'.
**08.02.1991** Service defect: 'B - TRACTION MOTOR EARTH - OIL CLEANED OUT OF NO. 5 T/M'.
**27.05.1991** Service defect: 'UN - AUXILLARY MACHINES - AUXILLARY GENERATOR MOUNTING BRACKET REPAIRED'.
**27.05.1991** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - ENGINE GOVERNOR REPLACED,ENGINE TESTED O.K.ON LOAD TANK'.
**28.05.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOAD REGULATOR POTENTIOMETER REPLACED DUE TO EXCESSIVE AMPS WHEN THROTTLING UP'.
**22.06.1991** Service defect: 'UN - BOGIE - LOCO FITTED WITH BOGIES OUT OF ZC 28.'.
**08.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HOT PLATE ARM REPLACED'.
**09.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDING VALVE REPLACED'.
**09.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**18.07.1991** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - FLANGE LUBE PUMP REPLACED'.
**18.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**18.07.1991** Service defect: 'TW - OTHER BODY REPAIRS - OIL CLEANED OFF FOOTPLATE'.
**25.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - OIL WASHED OFF FOOTPLATE'.
**26.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - OIL WASHED OFF FOOTPLATE'.
**03.08.1991** Service defect: 'UN - NO FAULT FOUND - REVERSER FAULT FOUND TO BE INCORRECTLY FITTED JUMPER'.
**05.08.1991** Service defect: 'UN - NO FAULT FOUND - FIELD DIVERSION TESTED OK.'.
**09.08.1991** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK ABOVE GOVERNOR REPAIRED'.
**24.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND VALVE REPLACED'.
**31.08.1991** Service defect: 'UN - GENERAL - NO BOOKINGS'.
**06.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**06.09.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - WATER REMOVED FROM BRAKE VALVES'.
**09.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TELEPHONE INSTALLED'.
**28.09.1991** Service defect: 'C - EXHAUST - 1 EXHAUST BELLOW REPLACED'.
**28.09.1991** Service defect: 'C - FUEL SYSTEM PUMP - NO.4 'A' BANK FUEL PUMP REPLACED'.
**28.09.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND BOX REPAIRED & SANDS MADE WORKABLE'.
**28.09.1991** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BLOCKS REPLACED & ADJUSTED,BRAKE HANGER REPAIRED'.
**01.10.1991** Service defect: 'TS - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**05.10.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK REPAIRED'.
**16.10.1991** Service defect: 'UN - NO FAULT FOUND - WHEELSLIP TESTED OK.'.
**19.12.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - SLIP BELL SOUNDING.'.
**12.05.1992** Service defect: 'UN - RADIO REPAIR - CRACKLING RADIO FAULT RECTIFIED.'.
**15.05.1992** Service defect: 'UN - COOLING SYSTEM -

REPORTED WATER LEAK CAUSED BY OVERFILLING HEADER TANK. NO FAULT EXISTS.'.

**15.05.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - LOOSE HOTPLATE TIGHTENED.'.

**15.05.1992** Service defect: 'UN - RADIO REPAIR - RADIO AND PHONE REPAIRED.'.

**21.05.1992** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - HIGHER WATTAGE GLOBES FITTED IN GAUGE PANELS.'.

**21.05.1992** Service defect: 'TW - NO FAULT FOUND - WHEEL SLIP FAULT REPORTED. NO FAULT FOUND.'.

**02.06.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDER FAULT CAUSED BY DAMP SAND. SAND REPLACED AND OK.'.

**06.06.1992** Service defect: 'UN - WHEELSLIP - WHEEL SLIP RESISTANCE CHANGED.'.

**13.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE BLOCKS CHANGED AND ADJUSTED.'.

**27.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.

**07.07.1992** Service defect: 'TW - AUXILLARY MACHINES - AUXILLIARY GENERATOR DRIVE BELT RE-TENSIONED.'.

**09.07.1992** Service defect: 'UN - ENGINE GOVERNOR - SHUTTING DOWN. GOVERNOR OIL TOP UP AND OK.'.

**15.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER RECORDING TAPE JAMMED IN MECHANISM. REPAIRED OK.'.

**17.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - DERAILMENT DAMAGE TO SANDING EQUIPMENT REPAIRED.'.

**18.08.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - REAR WINDSCREEN WIPER REPAIRED.'.

**17.09.1992** Service defect: 'B - COOLING SYSTEM - WATER FITTING RUBBERS REPLACED UNDER HEADER TANK.'.

**17.09.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - MAIN GENERATOR AND AUXILLIARY GENERATOR CLEANED.'.

**17.09.1992** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 2 A BANK CYLINDER HEAD REPLACED.'.

**17.09.1992** Service defect: 'B - ENGINE GOVERNOR MECHANICAL - GOVERNOR OIL TOPPED UP.'.

**17.09.1992** Service defect: 'B - EXHAUST - 2 EXHAUST BELLOW CLAMPS TIGHTENED.'.

**17.09.1992** Service defect: 'B - FUEL SYSTEM LINES - 4 BANJO WASHERS REPLACED ON B BANK.'.

**17.09.1992** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FRONT SPLINE SHAFT RUBBERS RENEWED.'.

**17.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BLOWER SHAFT TIGHTENED. FLANGE LUBRICATOR PIPE REPAIRED.'.

**17.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND PIPE REPAIRED AND SANDS CLEARED.'.

**17.09.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.

**17.09.1992** Service defect: 'B - RADIATOR/PRESSURISING FAN - EDDY CURRENT CLUTCH CLEANED.'.

**17.09.1992** Service defect: 'B - RADIO REPAIR - RADIO BRACKET REPAIRED.'.

**23.09.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED.'.

**31.10.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - HOTPLATE SECURED.'.

**31.10.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - MISSING FUEL FILLER CAP REPLACED.'.

**31.10.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**31.10.1992** Service defect: 'TW - RADIO REPAIR - SMALL OIL FIRE BURNED RADIO POWER SUPPLY CABLES. POWER SUPPLY REPLACED.'.

**07.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - NUMBER 3 TRACTION MOTOR BLOWER BELLOWS REPLACED.'.

**09.11.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - BLOWER MOTOR RELAY REPLACED.'.

**21.11.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - BLOWER MOTOR RELAY CLEANED.'.

**19.12.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**23.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE VALVE REPLACED.'.

**23.01.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND VALVE REPLACED.'.

**30.01.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**05.02.1993** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.

**10.02.1993** Service defect: 'B - AUXILLARY MACHINES - 1 AUXILLIARY GENERATOR BRUSH REPLACED.'.

**10.02.1993** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - BDR1 RELAY REPLACED.'.

**10.02.1993** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 7 LIGHTS REPLACED. SANDER SOLENOIDS REPLACED.'.

**10.02.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.

**10.02.1993** Service defect: 'B - EXHAUST - EXHAUST BELLOWS REPLACED.'.

**10.02.1993** Service defect: 'B - MAIN GENERATOR BRUSHES - 6 SETS OF MAIN GENERATOR BRUSHES REPLACED.'.

**10.02.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**10.02.1993** Service defect: 'B - TRACTION MOTOR BRUSHES - 6 SETS OF TRACTION MOTOR BRUSHES REPLACED.'.

**22.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER REPLACED DUE TO BROKEN CLOCK SPRING.'.

**24.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT TRACTION MOTOR BLOWER BOLTS TIGHTENED.'.

**24.02.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - REAR COUPLING KNUCKLE REPLACED.'.

**24.02.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED PANEL LIGHTS PROVIDING POOR VISIBILITY OF GAUGES. PANEL LIGHTS TO BE MODIFIED AT NEXT MAJOR SERVICE.'.

**02.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - LEADING TRACTION MOTOR BLOWER REPLACED.'.

**02.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - TRAILING CENTRE COUPLER REPLACED

DUE TO WORN BUSHES.'.

**06.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - FIREMANS SIDE SPEEDOMETER CABLE REPLACED.'.

**24.03.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**27.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**15.04.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED.'.

**15.04.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - FIREMANS SIDE SPEEDOMETER REPAIRED.'.

**23.04.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE CONTROL VALVE AND INDEPENDANT RELEASE REPLACED. BRAKE MAINTAIN FEATURE BLANKED OFF.'.

**15.05.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**15.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**24.06.1993** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ULTRASOUND INSPECTION CARRIED OUT ON ALL AXLES.'.

**24.06.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC 4 AND MC6 REPAIRED DUE TO AIR LEAKS AND BAD CONNECTIONS.'.

**24.06.1993** Service defect: 'B - COOLING SYSTEM - WATER LEAKS REPAIRED ON B BANK WATER RAIL.'.

**24.06.1993** Service defect: 'B - ENGINE CYLINDER HEADS - NUMBER 5 A HEAD GASKET REPLACED.'.

**24.06.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - BOTH TURBOCHARGERS REPLACED.'.

**24.06.1993** Service defect: 'B - EXHAUST - 4 BELLOWS GASKETS REPLACED. 1 EXHAUST BELLOW REPLACED ON B BANK.'.

**24.06.1993** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN GEARBOX OIL SEAL REPLACED.'.

**08.07.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT RIBBON GAUGE LIGHT MODIFICATION CARRIED OUT.'.

**08.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATER MOD CARRIED OUT.'.

**13.07.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CIRCUIT BOARDS REPLACED.'.

**15.07.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED.'.

**07.09.1993** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**20.09.1993** Service defect: 'TS - TRACTION MOTOR EARTH - NUMBER 2 AND 5 TRACTION MOTORS CLEANED AND V RINGS PAINTED TO CLEAR EARTHS.'.

**27.09.1993** Service defect: 'UN - TRACTION MOTOR EARTH - NUMBER 2 AND 5 TRACTION MOTORS EARTH FAULT. ELEC FITTERS UNSURE BUT THINK CHANGED #5 MOTOR AND CLEANED UP #2 MOTOR.'.

**09.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - 1 FLANGE LUBE NOZZLE REPAIRED.'.

**09.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - ALL SANDERS CLEARED.'.

**09.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.

**12.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.

**15.02.1994** Service defect: 'TW - EXHAUST - EXHAUST PLUG REPLACED.'.

**17.02.1994** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - AMP METER REPLACED.'.

**17.02.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REMOVED REPAIRED AND REPLACED ON LEADING BOGIE.'.

**21.03.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL EARTHS IN BATTERY CHARGE CIRCUIT CLEARED.'.

**21.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**16.04.1994** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS REPAIRED.'.

**22.04.1994** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED.'.

**25.04.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.

**02.05.1994** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLING WEAR PLATES REPLACED.'.

**02.05.1994** Service defect: 'UN - TRACTION MOTOR - NUMBER 3 TRACTION MOTOR REPLACED.**********'.

**16.05.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - REPORTED EARTH FAULT. CHECKED AND NO FAULT FOUND.'.

**24.05.1994** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.

**24.05.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**02.07.1994** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - NUMBER 2 TRACTION MOTOR REPLACED.'.

**02.07.1994** Service defect: 'UN - OTHER BODY REPAIRS - DERAILMENT DAMAGE RERAIRED.'.

**06.07.1994** Service defect: 'UN - TRACTION MOTOR BRUSHES - #2 TRACTION MOTOR TOP BRUSH HOLDER REPAIRED.'.

**22.07.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL MC CONTACTS REPLACED. FIELD DIVERSION CONTACTS CLEANED.'.

**22.07.1994** Service defect: 'B - COOLING SYSTEM RADIATOR - 1 RADIATOR ELEMENT REPLACED. 4 RADIATOR ELEMENT GASKETS REPLACED.'.

**22.07.1994** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - VIGILANCE PANEL RELAYS CLEANED AND COVER REPLACED. STEP LIGHTS REPAIRED.'.

**22.07.1994** Service defect: 'B - ENGINE - #6B FUEL CAM AND ROLLER REPLACED. #6A BANJO REPLACED.'.

**22.07.1994** Service defect: 'B - EXHAUST - 4 EXHAUST BELLOWS REPLACED. #1B EXHAUST TAPPET ADJUSTED'.

**22.07.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 2 SAND EJECTORS AND HOSES REPLACED.'.

**22.07.1994** Service defect: 'B - TRACTION MOTOR BRUSHES

- 6 TRACTION MOTOR BRUSHES REPLACED. BURNT WIRE TO SCC REPLACED.'.

**22.08.1994** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BLOWER MOTOR SWITCHES ON BOTH BOGIES REPLACED.'.

**01.09.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - LOAD REGULATOR WIRING REPLACED.'.

**01.09.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - EARTH FAULT. KV10 LOAD REGULATOR REPLACED.**********'.

**01.09.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL SEAL REPLACED ON FAN GEARBOX.'.

**09.02.1996** Service defect: 'TS - ENGINE - LOOSE CONNECTION TO ENGINE SPEED VALVE.'.

**27.03.1996** Service defect: 'UN - ENGINE - #5B INJECTOR REPLACED'.

**99.99.9999** Service defect: 'TS - SMOKE COMING FROM NUMBER 1 TRACTION MOTOR.'.

### ZC 34

Details: locomotive 'ZC 34 A' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $112850
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1970
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** STORED 30.06.92;EX Q.R. 1333
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 10.07.1992 | | |
| B Service Mileage: | 802073 KM | B Service Date: | 15.04.1992 |
| C Service Mileage: | 766249 KM | C Service Date: | 09.07.1991 |
| US Service Mileage: | 806259 KM | A Service Date: | 10.07.1992 |

**10.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START (FLAT BATTERIES)'.

**12.07.1989** Service defect: 'UN - ELECTRICAL MISC. TRANSITION - FIELD DIVERTER NO.3 REPAIRED & TESTED 'OK'.'.

**12.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - BOTH SPEEDO'S RENEWED.'.

**13.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES)'.

**14.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START.(FLAT BATTERIES)'.

**18.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START (FLAT BATTERIES.)'.

**20.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES.)'.

**21.07.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.

**21.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED BATTERIES 'OK'.'.

**24.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPL.'.

**24.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**24.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - SPRING WASHERS ON ADJUSTERS RENEWED.'.

**26.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES.)'.

**31.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES).'.

**14.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - REPL.BATTERIES BY NEW SET FROM ZB 15.'.

**24.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - (9)LAMPS REPL.'.

**24.08.1989** Service defect: 'UN - GENERAL - 'A'SERVICE.'.

**24.08.1989** Service defect: 'UN - RADIO REPAIR - REPL. RADIO & STATIC CONVERTER.'.

**28.08.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START.(FLAT BATTERIES)'.

**28.08.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HANDBRAKE SWITCH REPAIRED.'.

**28.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - B.C.5 REPAIRED ON ALERTING SYSTEM.'.

**30.08.1989** Service defect: 'UN - RADIO REPAIR - RADIO CONVERTER REPL. TESTED 'OK'.'.

**07.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**07.09.1989** Service defect: 'UN - NO FAULT FOUND - VIGILANCE TESTED 'OK'.'.

**22.09.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - LAMP REPL.'.

**22.09.1989** Service defect: 'UN - GENERAL - OIL SAMPLE TAKEN.'.

**14.12.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED.(FLAT BATTERIES)'.

**12.03.1990** Service defect: 'C - CONTACTOR MISCELLANEOUS - ALL CONTACTS TRUED.POTENTIOMETER WIRES FOUND LOOSE.'.

**12.03.1990** Service defect: 'C - ELECTRICAL MISC. HEADLIGHT - FRONT HEADLIGHT GLOBE REPLACED.'.

**12.03.1990** Service defect: 'C - ELECTRICAL MISC. JUMPER CABLES - JUMPER PUT ON LOCO.'.

**12.03.1990** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (5)GLOBES REPLACED.'.

**12.03.1990** Service defect: 'C - GENERAL - LOCO BOOKED OUT ON 03-01-90 AT 1200HRS.SPEEDO READ 705003K/M'.

**12.03.1990** Service defect: 'C - MAIN GENERATOR BRUSHES - (13)MAIN GENERATOR BRUSHES REPLACED.'.

**12.03.1990** Service defect: 'C - TRACTION MOTOR BRUSHES - (16)TRACTION MOTOR BRUSHES REPLACED.'.

**02.04.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 474277K/M.'.

**14.08.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - F.D.C.2 FITTED WITH NEW PISTON SEAT.'.

**14.08.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.

**14.08.1990** Service defect: 'B - EXHAUST - TOP & BOTTOM

BELLOW REPL.'.
**14.08.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 492836K/M.'.
**14.08.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**14.08.1990** Service defect: 'B - RADIO REPAIR - REPAIRED RADIO H/SET & TESTED RADIO 'OK'.'.
**14.08.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**12.11.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - M.C.AND START CONTACTS REMOVED AND CLEANED'.
**12.11.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 9 LAMPS REPLACED'.
**12.11.1990** Service defect: 'B - ENGINE GOVERNOR MECHANICAL - GOV. OIL ADDED'.
**12.11.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 503464KM.'.
**12.11.1990** Service defect: 'B - MECHANICAL EQUIPMENT - AIR PIPE REPAIRED,AIR HOSE RENEWED'.
**12.11.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED'.
**12.11.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 2 T/M BRUSHES REPLACED'.
**07.02.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,1:3:6 FLANGES DOWN'.
**07.02.1991** Service defect: 'B - FUEL SYSTEM PUMP - FUEL PUMP TAPPET REPLACED'.
**07.02.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 522825KM.'.
**07.02.1991** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN COUPLING RUBBER REPLACED'.
**07.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT - PIPE REPLACED TO BLOWER SEAL,DOOR WIPER REPLACED'.
**07.02.1991** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR COUPLING RUBBER REPLACED'.
**24.05.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - PANEL,CAB & SPEEDO LAMPS REPLACED'.
**24.05.1991** Service defect: 'TW - GENERAL - (A) SERVICE'.
**24.05.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 8 BRAKE BLOCKS REPLACED'.
**12.06.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO.3 TRACTION MOTOR VEE RING PAINTED,CHECKED O.K. FOR EARTHS'.
**09.07.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**09.07.1991** Service defect: 'C - ELECTRICAL MISCELLANEOUS - 2 GLOBES REPLACED,FUSE REPLACED IN FLANGE LUBE BOX'.
**09.07.1991** Service defect: 'C - ENGINE - 4 SPLIT PINS IN CON ROD BOLTS REPLACED'.
**09.07.1991** Service defect: 'C - FUEL SYSTEM - NO.4 FUEL CAM & ROLLER CHANGED ON 'A' BANK'.
**09.07.1991** Service defect: 'C - MAIN GENERATOR BRUSHES - 5 MAIN GENERATOR BRUSHES REPLACED'.
**09.07.1991** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**09.07.1991** Service defect: 'C - TRACTION MOTOR EARTH - NO.2,NO.3 & NO.4 TRACTION MOTORS REPLACED'.
**09.07.1991** Service defect: 'C - VIGILANCE - BRIDGE WIRE FAULTY ON P.K.S. IS.SWITCH CAUSING NO AMPS, FAULT RECTIFIED AMPS OK.'.
**10.07.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR ADJUSTED & AMPS TESTED OK.'.
**13.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - AMPING FAULT CAUSED BY HAND BRAKE SWITCH NOT WORKING.'.
**17.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HANDBRAKE SWITCH ADJUSTED A/C LOCO WOULD NOT AMP'.
**26.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**26.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - OIL WASHED OFF FOOTPLATE'.
**09.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**09.08.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE GREASED A/C JUMPING SPEEDO'.
**21.08.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - MAIN RESERVOIR AIR COCK REPLACED'.
**26.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - MAIN RESERVOIR AIR GAUGE REPAIRED'.
**26.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - COUPLING NUCKLE REPLACED'.
**29.08.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT GLOBE REPLACED'.
**02.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPLACED'.
**06.09.1991** Service defect: 'TS - NO FAULT FOUND - LOCO AMPS CHECKED OK.'.
**09.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - HAND BRAKE ROD REPAIRED'.
**10.09.1991** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR ELECTRONIC CARDS REPLACED'.
**18.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**18.09.1991** Service defect: 'UN - NO FAULT FOUND - LOCO TESTED OK FOR AMPS'.
**28.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - F/S SPEEDO INNER CABLE REPLACED'.
**01.10.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**01.10.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER REPLACED'.
**04.10.1991** Service defect: 'TS - GENERAL - * A SERVICE COMPLETED *'.
**04.10.1991** Service defect: 'TS - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**22.10.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - 'P'WIRE FOUND TO BE DOWN TO FRAME,WIRE REPLACED & LOCO TESTED OK.'.
**24.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REPAIRED'.
**26.10.1991** Service defect: 'UN - WHEELSLIP - WHEELSLIP BUZZER REPLACED'.

**19.12.1991** Service defect: 'UN - ELECTRICAL MISC - RADAR TRANSCEIVER - RADIO FAULT.'.
**16.06.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**19.06.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE NOT WORKING. ALLOWED TO GO TO BURNIE FOR SHUNTING PURPOSES.'.
**19.06.1992** Service defect: 'UN - NO FAULT FOUND - PHONE FAULT REPORTED. NO FAULT FOUND.'.
**29.06.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - WHEEL SLIP FAULT. CURRENT BALANCE RELAYS TESTED, WHEEL SLIP RELAY PICK UP VOLTAGE CHECKED.'.

**ZC 35**

**10.07.1989** Service defect: 'UN - BLOCKED FILTERS - LARGE OIL FILTERS RENEWED.'.
**10.07.1989** Service defect: 'UN - ENGINE GOVERNOR - GOVERNOR RENEWED.'.
**10.07.1989** Service defect: 'UN - GENERAL - TESTED ON LOAD TANK.'.
**19.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPL.& MARKER LIGHT SOCKET SECURED.'.
**19.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**19.07.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD CHECKED 'OK'.'.
**20.07.1989** Service defect: 'TS - ENGINE WATER LEAK - WATER LEAK REPAIRED.'.
**20.07.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD RENEWED.'.
**21.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD RENEWED.'.
**21.07.1989** Service defect: 'UN - OTHER BODY REPAIRS - SEATS REPAIRED.'.
**26.07.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - FAULT HORN REPAIRED.'.
**26.07.1989** Service defect: 'UN - NO FAULT FOUND - FIELD DIVERSION TESTED 'OK'.'.
**06.09.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**06.09.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - W/FLANGE LUBRICATOR MODIFICATION COMPLETED.'.
**06.09.1989** Service defect: 'C - ELECTRICAL MISC - FUSES/HOLDERS - FUEL PRIMING SWITCH REPAIRED.'.
**06.09.1989** Service defect: 'C - EXHAUST - (3)EXHAUST BELLOWS REPL.'.
**06.09.1989** Service defect: 'C - MECHANICAL EQUIPMENT - SEVERAL BIG END SPLIT PINS REPL.(MISSING)'.
**06.09.1989** Service defect: 'C - RADIO REPAIR - RADIO REPL.'.
**06.09.1989** Service defect: 'C - TRACTION MOTOR - NO1&2 MOTORS FULL OF OIL (CLEANED.)NO.1MOTOR BRUSH BOX REPL.'.
**06.09.1989** Service defect: 'C - TRACTION MOTOR BRUSHES - (20)BRUSHES REPL.'.
**11.09.1989** Service defect: 'UN - ENGINE WATER LEAK - REPAIRED WATER LEAKS.'.
**11.09.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED FOR FUMES 'OK'.'.
**13.09.1989** Service defect: 'UN - ENGINE WATER LEAK - REPL.WATER PIPE JOINT.'.
**19.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**19.09.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIN REPL.(MISSING)'.
**19.09.1989** Service defect: 'TW - NO FAULT FOUND - EXHAUST SYSTEM CHECKED 'OK'.'.
**21.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT - COUPLING COCK REPAIRED.'.
**21.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**21.09.1989** Service defect: 'UN - OTHER BODY REPAIRS - SEATS BOLTED DOWN.'.
**22.09.1989** Service defect: 'UN - NO FAULT FOUND - MAIN CIRCUIT BREAKER CHECKED 'OK'.'.
**26.09.1989** Service defect: 'UN - ENGINE WATER LEAK - WATER PIPE REPAIRED.(BROKEN)'.
**29.09.1989** Service defect: 'UN - COOLING SYSTEM WATER PUMP - REPAIRED WATER LEAK.'.
**29.09.1989** Service defect: 'UN - NO FAULT FOUND - EXHAUST & AIR INLET SYSTEM CHECKED 'OK'.'.
**03.10.1989** Service defect: 'UN - NO FAULT FOUND - MAIN CIRCUIT BREAKER TESTED 'OK'.'.
**13.10.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - REPAIRED H/LIGHT.'.
**13.10.1989** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPL.(BROKEN)'.
**26.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL,& E/ROOM LIGHTING REWIRED.'.
**26.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**07.11.1989** Service defect: 'UN - NO FAULT FOUND - FAULT BELL TESTED 'OK'.'.
**09.11.1989** Service defect: 'UN - BATTERY MAINTENANCE - REMOVED EARTHS FROM BATTERIES.'.
**22.11.1989** Service defect: 'UN - NO FAULT FOUND - FAULT BELL TESTED 'OK'.'.
**22.11.1989** Service defect: 'UN - TRACTION MOTOR - T/M BELLOWS REPL.'.
**13.12.1989** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - FRONT HEADLIGHT SECURED.'.
**13.12.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5) GLOBES REPLACED.'.
**13.12.1989** Service defect: 'B - ENGINE CYLINDER HEADS - NO.6 'A' BANK HEAD RE-TENSIONED.'.
**13.12.1989** Service defect: 'B - FUEL SYSTEM - NO.5 'B' BANK FUEL CAM ADJUSTER RE-SET.'.
**13.12.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (24)TOP MAIN GENERATOR BRUSHES REPLACED, ALL CONTACTS TRUED.'.
**13.12.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (8)TRACTION MOTOR BRUSHES REPLACED,CABLES TIED UP.'.
**30.05.1991** Service defect: 'UN - DUE FOR (F) SERVICE,BLOWING OIL'.

**ZC 37**

Details: locomotive 'ZC 37 E' in AN 'Tasmania Division'.

**Owner:** T
**Operator:** D

**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $119140
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1973
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** STORED;EX Q.R. 1336
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 08.05.1992 | | |
| B Service Mileage: | 538614 KM | B Service Date: | 06.06.1991 |
| C Service Mileage: | 557643 KM | C Service Date: | 13.12.1991 |
| US Service Mileage: | 557643 KM | A Service Date: | 15.10.1991 |

**03.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP START (FLAT BATTERIES)'.
**14.07.1989** Service defect: 'UN - BATTERY MAINTENANCE - JUMP STARTED (FLAT BATTERIES.)'.
**25.07.1989** Service defect: 'TW - COOLING SYSTEM - WATER CHANGE.'.
**25.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**14.08.1989** Service defect: 'UN - NO FAULT FOUND - LOCO CHECKED 'OK'.'.
**07.09.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - HEATER TESTED 'OK'.(SMOKE FROM NEW PAINT)'.
**07.09.1989** Service defect: 'TW - FUEL SYSTEM - H/PRESSURE FUEL PIPE REPL.'.
**07.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**15.09.1989** Service defect: 'TS - GENERAL - FLYWHEEL COVER REPL.'.
**15.09.1989** Service defect: 'TS - NO FAULT FOUND - HOTPLATE TESTED 'OK'.'.
**19.09.1989** Service defect: 'UN - BROKEN PIPE - REPAIRED FLANGE LUBE PIPE (BROKEN).'.
**19.09.1989** Service defect: 'UN - FUEL SYSTEM LINES - REPAIRED SEVERAL FUEL LEAKS.'.
**19.09.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - REPAIRED SANDBOX (CRACKED).'.
**05.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**05.10.1989** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - (2)BRUSHES REPL.'.
**05.10.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (12)LAMPS REPL.'.
**05.10.1989** Service defect: 'B - EXHAUST - (2)BELLOWS REPL.'.
**05.10.1989** Service defect: 'B - MAIN GENERATOR - PAINTED WITH ANTI-TRACK COMPOUND.'.
**05.10.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (5)BLOCKS REPL.& ALL BRAKES ADJ.'.
**05.10.1989** Service defect: 'B - TRACTION MOTOR - PAINTED WITH ANTI-TRACK COMPOUND.'.
**05.10.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (18)BRUSHES REPL.'.
**23.11.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**30.03.1990** Service defect: 'UN - TRACTION MOTOR EARTH - NO.3 MOTOR RENEWED.'.
**06.04.1990** Service defect: 'UN - LUBRICATING SYSTEM - REPAIRED OIL LEAK AT CAM COVER.'.
**01.05.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 24-04-90.'.
**17.05.1990** Service defect: 'TW - GENERAL - *LOCO BOOKED OUT ON 09-05-90 AT 1600HRS.'.
**10.08.1990** Service defect: 'B - COOLING SYSTEM - (2)WATER HOSES ON HEADER TANK REPL.'.
**10.08.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO.2 'B'BANK HEAD RETENSIONED.'.
**10.08.1990** Service defect: 'B - EXHAUST - (3)BELLOWS REPL.'.
**10.08.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 431434K/M.'.
**12.12.1990** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 442518KM.'.
**12.12.1990** Service defect: 'B - MECHANICAL EQUIPMENT - FUEL GAUGE REPLACED,FRONT WIPER BLADE REPLACED'.
**12.12.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**24.05.1991** Service defect: 'UN - GENERAL - SPEEDO ON LOCO READ 468053KM.'.
**24.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - REPLACED LEAKING INDEPENDANT BRAKE HEAD'.
**06.06.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 3 GLOBES REPLACED,STICKING AIR PRESSURE SWITCH REPAIRED'.
**06.06.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 469657 KM.'.
**06.06.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 23 MAIN GEN.BRUSHES REPLACED'.
**06.06.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 11 T/M BRUSHES REPLACED'.
**13.06.1991** Service defect: 'UN - ENGINE WATER LEAK - FAULTY PIPE JOINT REPAIRED'.
**01.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - REAR T/M BLOWER BEARINGS REPLACED'.
**04.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - HEATER SWITCH REPLACED'.
**10.07.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS TESTED OK.'.
**10.07.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**26.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**26.07.1991** Service defect: 'UN - OTHER BODY REPAIRS - OBSERVERS SEAT ADJUSTING BOLT REPLACED'.
**07.08.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**07.08.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED'.
**07.08.1991** Service defect: 'TW - RADIO REPAIR - RADIO REPLACED'.
**20.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - WINDOW REPLACED A/C BEING KICKED OUT'.
**22.08.1991** Service defect: 'UN - NO FAULT FOUND - BRAKES TESTED OK.'.

**24.08.1991** Service defect: 'UN - GENERAL - LOCO CHECKED OK.'.
**28.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT COMPRESSOR - COMPRESSOR CUT OUT ADJUSTED'.
**31.08.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMPRESSOR E.P.VALVE REPLACED'.
**10.09.1991** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - COMPRESSOR E.P. VALVE REPLACED'.
**10.09.1991** Service defect: 'TW - GENERAL - *** A SERVICE COMPLETE ***'.
**12.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - COMPRESSOR CUT=OUT E.P. VALVE REPLACED'.
**24.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE F/S REPLACED'.
**15.10.1991** Service defect: 'UN - GENERAL - LOCO MADE A 'C' SERVICE'.
**08.05.1992** Service defect: 'TS - MAIN GENERATOR - AWAITING GENERATOR OVERHAUL.'.

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**28.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED ON TRIAL RUN 'OK'.'.
**04.08.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**08.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**08.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**08.08.1989** Service defect: 'TW - GENERAL - SEAT SECURED.'.
**08.08.1989** Service defect: 'TW - MECHANICAL EQUIPMENT - D/SIDE WIPER BLADE ADJ.'.
**08.08.1989** Service defect: 'TW - TRACTION MOTOR - COVER REPL.'.
**09.08.1989** Service defect: 'UN - MECHANICAL EQUIPMENT COUPLER - FRONT CENTRE COUPLER REPL.(SIEZED).'.
**13.09.1989** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**13.09.1989** Service defect: 'C - MECHANICAL EQUIPMENT - REAR F/SIDE WIPER REPL.'.
**13.09.1989** Service defect: 'C - MECHANICAL EQUIPMENT COUPLER - CENTRE COUPLINGS REPL.'.
**13.09.1989** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - (1)HOSE REPL.'.
**13.09.1989** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.BRAKE HEAD & PRESSURE GAUGE REPL.'.
**29.09.1989** Service defect: 'TW - ELECTRICAL MAINTENANCE -WIRING - REPAIRED INSTRUMENT LIGHT DIMMER WIRING.'.
**29.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**29.09.1989** Service defect: 'TW - OTHER BODY REPAIRS - SEAT REPAIRED & DOOR SEALS REPL.'.
**04.10.1989** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - (2)LAMPS REPL.'.
**11.10.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - WATER TEMPERATURE SWITCH REPL.'.
**12.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR HOSE REPL.'.
**15.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**15.11.1989** Service defect: 'UN - NO FAULT FOUND - TRACTION MOTOR ISOLATED.(ELECTRICIANS DON'T KNOW WHY)'.
**16.11.1989** Service defect: 'UN - NO FAULT FOUND - TESTED AMPS 'OK'.'.
**27.11.1989** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL CONTACTS CLEANED & TRUED UP.'.
**27.11.1989** Service defect: 'B - CONTACTOR WELDED - MC.4 CONTACTOR REPAIRED (WELDED TOGETHER)'.
**27.11.1989** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - E/CURRENT CLUTCH BRUSH BOX ADJ.BACK ONTO SLIP RINGS.'.
**27.11.1989** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - REAR H/LIGHT SECURED.'.
**27.11.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**27.11.1989** Service defect: 'B - ENGINE CYLINDER HEADS - NO.3 'B' BANK HEAD RETENSIONED.'.
**27.11.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (15)BRUSHES REPL.'.
**27.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (7)BLOCKS REPL.'.
**27.11.1989** Service defect: 'B - RADIO REPAIR - RADIO & HANDSET REPL. AERIAL WIRE REPAIRED.'.
**27.11.1989** Service defect: 'B - TRACTION MOTOR - T/MOTOR CABLES TIED BACK.'.
**27.11.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**30.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - REPL.SPEEDO CABLE.(BROKEN)'.
**15.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO REPLACED.'.
**30.05.1991** Service defect: 'UN - STORED'.
**99.99.9999** Service defect: 'SW - STORED'.

**ZC 39**

Details: locomotive 'ZC 39 W' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $113670
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1970
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1338
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 09.09.1996 | | |
| A Service Mileage: | 767780 KM | A Service Date: | 22.08.1994 |
| B Service Mileage: | 851478 KM | B Service Date: | 01.08.1996 |
| C Service Mileage: | 760394 KM | C Service Date: | 31.05.1994 |
| US Service Mileage: | 855810 KM | A Service Date: | 03.09.1996 |

**14.07.1989** Service defect: 'TS - GENERAL - 'A'SERVICE.'.
**14.07.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD RENEWED.'.
**18.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**18.07.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**21.07.1989** Service defect: 'UN - NO FAULT FOUND - CHECKED BOOST & AMPS 'OK'.'.
**28.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**01.08.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - PANEL LIGHTS REPAIRED.'.
**02.08.1989** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES CHECKED 'OK'.'.
**02.08.1989** Service defect: 'TS - NO FAULT FOUND - AMPS CHECKED 'OK'.'.
**07.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**19.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - NO.2 AXLE CRACKED.'.
**19.10.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**19.10.1989** Service defect: 'B - EXHAUST - (2)BELLOWS REPL.'.
**19.10.1989** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 435549K/M.'.
**19.10.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**02.02.1990** Service defect: 'C - AUXILLARY MACHINES - (4)AUX.GEN.BRUSHES REPL.'.
**02.02.1990** Service defect: 'C - CONTACTOR MISCELLANEOUS - ALL CONTACTS SECURED & TRUED UP.'.
**02.02.1990** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (5)LAMPS REPL.'.
**02.02.1990** Service defect: 'C - GENERAL - *SPEEDO ON LOCO READ 453286K/M.'.
**02.02.1990** Service defect: 'C - MAIN GENERATOR BRUSHES - (4)BRUSHES REPL.'.
**02.02.1990** Service defect: 'C - TRACTION MOTOR BRUSHES - (15)BRUSHES REPLL.'.
**08.05.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (7)LAMPS REPL.'.
**08.05.1990** Service defect: 'B - ENGINE - ADJ.TIMING CHAIN.'.
**08.05.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 467704K/M.'.
**08.05.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (4)BRUSHES REPL.'.
**08.05.1990** Service defect: 'B - MECHANICAL EQUIPMENT - REAR WIPER REPAIRED & RENEWED DUST COVER NO.6 T/MOTOR.'.
**08.05.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - (8)BLOCKS REPL.& ADJ.REPL.BRAKE HANGER.'.
**08.05.1990** Service defect: 'B - RADIO REPAIR - RADIO REPL.'.
**08.05.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (6)BRUSHES REPL.'.
**06.08.1990** Service defect: 'B - EXHAUST - (3)BELLOWS REPL.'.
**06.08.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 479457K/M.'.
**06.08.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**06.08.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**22.10.1990** Service defect: 'B - - RADIO NO.37159 FITTED'.
**22.10.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED,LUBRICATORS CHECKED,SHARP WHEELS'.
**22.10.1990** Service defect: 'B - ENGINE - 3 SPLINE SHAFTS CHANGED'.
**22.10.1990** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO.REGULATING OIL PRESSURE VALVE CHANGED'.
**22.10.1990** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK RADIATOR COMPARTMENT REPAIRED'.
**22.10.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - 4 MAIN GENERATOR BRUSHES REPLACED'.
**22.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT T/M BLOWER BELT ADJUSTED'.
**22.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - REAR COUPLING COCK TIGHTENED'.
**22.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CHECKED'.
**11.09.1991** Service defect: 'B - ENGINE CYLINDER HEADS - NO.6 HEAD GASKET REPLACED ON 'A' BANK'.
**11.09.1991** Service defect: 'B - ENGINE WATER LEAK - WATER CLAMPS TIGHTENED'.
**11.09.1991** Service defect: 'B - FUEL SYSTEM PUMP - NO.2 FUEL PUMP TAPPET REPLACED ON 'A' BANK'.
**16.09.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - WATER TEMPERATURE REPLACED,TESTED & WIRING REPAIRED'.
**17.09.1991** Service defect: 'TS - RADIO REPAIR - RADIO TESTED OK.'.
**17.09.1991** Service defect: 'TS - VIGILANCE - VIGILANCE DIODE REPLACED'.
**25.09.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTHS TRACED TO FIRE DETECTORS & REPAIRED'.
**01.10.1991** Service defect: 'UN - NO FAULT FOUND - EARTH FAULTS CHECKED OK.'.
**03.10.1991** Service defect: 'TS - BATTERY MAINTENANCE - BATTERIES WASHED & TESTED'.
**03.10.1991** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE ADJUSTED'.
**29.10.1991** Service defect: 'UN - AUXILLARY MACHINES - AUXILLARY GENERATOR BELT REPLACED'.
**29.10.1991** Service defect: 'UN - TRACTION MOTOR EARTH - NO.2 & NO.5 TRACTION MOTORS REPLACED'.
**02.11.1991** Service defect: 'UN - AUXILLARY MACHINES - AUXILLARY GENERATOR BELT TIGHTENED'.
**02.11.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - BLOWN PANEL LAMPS REPLACED'.
**12.11.1991** Service defect: 'TS - AUXILLARY MACHINES - AUXILLARY GENERATOR BELT REPLACED'.
**13.11.1991** Service defect: 'UN - RADIO REPAIR - RADIO AERIAL CONNECTION REPAIRED'.
**15.11.1991** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR

REPLACED'.

**20.11.1991** Service defect: 'UN - AUXILLARY MACHINES - AUX. GENERATOR BELT REPLACED'.

**25.11.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - WIRING TO BATTERY CHARGE RESISTOR REPAIRED'.

**16.05.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTMENT.'.

**16.05.1992** Service defect: 'UN - OTHER BODY REPAIRS - DRAUGHTS IN CAB WALL PLUGGED.'.

**02.06.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC1 CONTACTOR REPLACED.'.

**02.06.1992** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - HEAD LIGHT DIMMER SWITCH ON DRIVERS SIDE REPLACED. WATER TEMP SWITCHES #2 & #3 REPLACED. WTS #3 & #4 REWIRED.'.

**02.06.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 3 INDICATOR LIGHTS AND 7 LIGHTS (UNSPECIFIED) REPLACED.'.

**02.06.1992** Service defect: 'B - EXHAUST - ONE EXHAUST BELLOW CHANGED.'.

**02.06.1992** Service defect: 'B - MAIN GENERATOR BRUSHES - 18 SETS OF MAIN GENERATOR BRUSHES REPLACED.'.

**02.06.1992** Service defect: 'B - MECHANICAL EQUIPMENT - HORN MODIFICATION CARRIED OUT.'.

**02.06.1992** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - MODIFICATION CARRIED OUT ON CENTRE COUPLERS.'.

**11.06.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDOMETER CABLE AND LAMP REPLACED ON FIREMANS SIDE.'.

**11.06.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - STEP LIGHT SWITCH REPLACED.'.

**11.06.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - BLOWN VOLTAGE REGULATOR FUSE CAUSED REPORTED AMPING FAULT. FUSE REPLACED.'.

**11.06.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - WATTAGE TOO HIGH ON GLOBES FITTED TO AUXILLIARY LIGHTING CIRCUIT TRIGERING CIRCUIT BRKR. LOWER WATTAGE GLOBES FITTED.'.

**11.06.1992** Service defect: 'UN - RADIO REPAIR - PHONE AND RADIO POWER SUPPLY REPLACED.'.

**11.06.1992** Service defect: 'UN - TRACTION MOTOR EARTH - TRACTION MOTOR EARTH LINK HAD BEEN DISCONNECTED BY UNKNOWN PERSON BEFORE ENTERING SHOP. RECONNECTED.'.

**19.06.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR FUSE AND HOLDER REPLACED.'.

**19.06.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DRIVERS SIDE HEATER REPAIRED. FAULT HORN REPLACED.'.

**19.06.1992** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAKS REPAIRED.'.

**19.06.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.

**25.06.1992** Service defect: 'UN - AUXILLARY MACHINES - AUXILLIARY GENERATOR CHANGED.'.

**25.06.1992** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR REPLACED. HOWEVER THE FAULT WAS LATER FOUND TO BE CAUSED BY AUXILLIARY GENERATOR.'.

**06.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE OIL TANK ALSO MISSING. ANOTHER TANK AND ASSOCIATED TUBEWORK FITTED.'.

**06.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - CAME INTO SHOP WITH FRONT DRIVERS SIDE SAND BOX MISSING. ANOTHER SAND BOX FITTED.'.

**14.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - DRIVERS SEAT REPAIRED.'.

**14.07.1992** Service defect: 'UN - NO FAULT FOUND - FIREMANS SIDE SPEEDOMETER REPORTED JUMPING. CHECKED AND NO FAULT FOUND.'.

**14.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - DRAUGHTS IN CAB PLUGGED. BENT STEP REPAIRED.'.

**20.07.1992** Service defect: 'UN - ENGINE GOVERNOR - HOLE IN AIR LINE TO GOVERNOR REPAIRED.'.

**23.07.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - BROKEN WIRE REPLACED TO SANDING PEDAL.'.

**13.08.1992** Service defect: 'TW - COOLING SYSTEM - WATER LEAKS STOPPED.'.

**13.08.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - CAB HEATERS REPAIRED.'.

**13.08.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**17.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED.'.

**26.08.1992** Service defect: 'UN - BATTERY MAINTENANCE - FLAT BATTERIES. JUMP STARTED AND ALLOWED TO CHARGE UP.'.

**26.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - OUTER SHEATH OF SPEEDOMETER CABLE SHORTENED.'.

**27.08.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY VOLTAGE ADJUSTED AND FILTER REPLACED.'.

**09.09.1992** Service defect: 'TS - BATTERY MAINTENANCE - JUMP STARTED AND RUN TO RECHARGE BATTERIES.'.

**09.09.1992** Service defect: 'TS - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED.'.

**22.09.1992** Service defect: 'TW - RADIO REPAIR - RADIO TRANSCEIVER REPLACED.'.

**01.10.1992** Service defect: 'UN - RADIO REPAIR - RADIO TRANSCEIVER REPLACED.'.

**05.10.1992** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC3 CONTACTS REPLACED.'.

**05.10.1992** Service defect: 'B - COOLING SYSTEM - WATER COUPLING UNDER HEADER TANK TIGHTENED.'.

**05.10.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAIN CLEARED.'.

**05.10.1992** Service defect: 'B - LUBRICATING SYSTEM - OIL PIPE FLANGE REPAIRED.'.

**05.10.1992** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - REAR SPLINE SHAFT REPLACED.'.

**16.10.1992** Service defect: 'UN - BROKEN PIPE - AIR LEAK REPAIRED.'.

**16.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - WET SANDERS FREED UP.'.

**16.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED.'.

**16.10.1992** Service defect: 'UN - RADIO REPAIR - RADIO POWER SUPPLY REPLACED.'.
**17.11.1992** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT RIBBON GAUGE LIGHT REPLACED.'.
**17.11.1992** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT TRACTION MOTOR BLOWER REPLACED. BRACKETS WELDED.'.
**20.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER INNER CABLE REPLACED.'.
**07.12.1992** Service defect: 'UN - LUBRICATING SYSTEM LOW OIL PRESSURE - CRACKED OIL PIPE WELDED UP.'.
**09.02.1993** Service defect: 'UN - NO FAULT FOUND - EARTH LINK OUT WHEN ENTERING SHOP. CHECKED AND NO FAULT FOUND.'.
**12.02.1993** Service defect: 'UN - TRACTION MOTOR EARTH - WORN CABLES REPAIRED ON TRACTION MOTOR #4.'.
**24.02.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE RE-ATTACHED TO AXLE SOCKET.'.
**05.03.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**05.03.1993** Service defect: 'B - EXHAUST - 1 EXHAUST BELLOW REPLACED.'.
**05.03.1993** Service defect: 'B - FUEL SYSTEM PUMP - NUMBER 5A FUEL PUMP ROLLER AND FUEL CAM REPLACED.'.
**05.03.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**05.03.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 3 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED.'.
**13.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**26.03.1993** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - REPORTED TRACK STOPPAGE DUE TO SLIPPING. SANDERS CLEARED.'.
**26.03.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**22.04.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**22.04.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - FRONT TRAIN PIPE COCK REPLACED.'.
**22.04.1993** Service defect: 'TW - OTHER BODY REPAIRS - FIRE MANS SIDE STEP STRAIGHTENED.'.
**30.04.1993** Service defect: 'UN - ENGINE CYLINDER HEADS - NUMBER 4B CYLINDER HEAD REPLACED.'.
**30.04.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - B BANK TURBOCHARGER REPLACED. TESTED ON LOAD TANK AND OK.'.
**11.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AS BLOWING SMOKE. CHECKED ON LOAD TANK AND NO FAULTFOUND.'.
**20.05.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE RELAY AND CONTROL VALVES REPLACED.'.
**21.05.1993** Service defect: 'TS - MECH. EQUIPMENT RADIATOR FAN GEARBOX - BROKEN FAN SHAFT REPAIRED.'.
**27.05.1993** Service defect: 'B - CONTACTOR MISCELLANEOUS - MC4 CONTACTS REPLACED.'.
**27.05.1993** Service defect: 'B - COOLING SYSTEM - WATER HOSES TIGHTENED ON A AND B BANK.'.
**27.05.1993** Service defect: 'B - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.
**27.05.1993** Service defect: 'B - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR ADJUSTED.'.
**27.05.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SANDER HOSE REPLACED. 1 SAND VALVE SECURED.'.
**27.05.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND BRAKES ADJUSTED. ULTRASONIC INSPECTION CARRIED OUT ON ALL AXLES.'.
**03.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATERS REPAIRED.'.
**03.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**07.06.1993** Service defect: 'TS - BATTERY MAINTENANCE - TRACK STOPPAGE CAUSED BY FLAT BATTERIES. LOCOMOTIVE JUMP STARTED.'.
**07.06.1993** Service defect: 'TS - RADIO REPAIR - RADIO POWER SUPPLY REPLACED AT LOCO LAUNCESTON LATER IN EVENING.'.
**15.06.1993** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAKS IN RADIATOR COMPARTMENT REPAIRED.'.
**15.06.1993** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER OIL TOPPED UP.'.
**19.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPLACED POWER SUPPLY FOR INSTRUMENT LIGHTS AND FLANGE LUBES'.
**23.06.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - REAR TRACTION MOTOR BLOWER REPLACED.'.
**30.06.1993** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - LOOSE WIRE TO SANDER SOLENOID REPAIRED.'.
**30.06.1993** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.07.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED SPLIT HEADER TANK. WHEN CHECKED HEADER TANK HAD JUST BEEN OVER FILLED.'.
**28.07.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**31.08.1993** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**31.08.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**31.08.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**18.09.1993** Service defect: 'UN - COOLING SYSTEM - WATER LEAK REPAIRED.'.
**08.10.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED. FUEL GAUGE REPAIRED.'.
**22.03.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING REPLACED BETWEEN LOAD POTENTIOMETER AND LOAD REGULATOR.'.
**22.03.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CARDS REPLACED.'.
**28.03.1994** Service defect: 'UN - NO FAULT FOUND -

REPORTED AS FAULT ALARM SOUNDING. CHECKED AND NO FAULT FOUND'.

**24.05.1994** Service defect: 'UN - MAIN GENERATOR BRUSHES - MAIN GENERATOR BRUSHES AND PIGTAILS REPLACED. BDR1 REPAIRED.'.

**24.05.1994** Service defect: 'UN - TRACTION MOTOR EARTH - #1 & #4 TRACTION MOTOR CABLES REPAIRED.'.

**31.05.1994** Service defect: 'C - CONTACTOR MISCELLANEOUS - ALL MC CONTACTS REPLACED.**********'.

**31.05.1994** Service defect: 'C - ELECTRICAL MISC. AC/DC RELAYS - PC1 AND PC2 RELAYS REPLACED.**********'.

**31.05.1994** Service defect: 'C - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPLACED.'.

**31.05.1994** Service defect: 'C - MECHANICAL EQUIPMENT - 1 FLANGE LUBE NOZZLE AND HOSE REPLACED.'.

**31.05.1994** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**31.05.1994** Service defect: 'C - TRACTION MOTOR BRUSHES - 6 TRACTION MOTOR BRUSHES REPLACED.'.

**20.06.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED EARTH FAULT NOT DUE TO THIS LOCO BUT DUE TO ZB1 ANDZB10 WHICH WERE COUPLED TO IT. OTHER TWO LOCOS BEING CHECKED'.

**02.08.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR REPLACED. EARTH FAULT CLEARED.'.

**02.08.1994** Service defect: 'UN - LUBRICATING SYSTEM - ENGINE OIL CHANGE DUE TO RISING LEAD LEVEL AND COOLING WATERCONTAMINATION.'.

**10.09.1994** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - MAIN SWITCH REPLACED.'.

**10.09.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - CHARGE COOLER REPLACED DUE TO WATER LEAK.'.

**10.09.1994** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR NUMBER 6 REPLACED DUE TO LOOSE PINION.'.

**19.09.1994** Service defect: 'UN - NO FAULT FOUND - REPORTED FAULT WONT COUPLE CHECKED OK.'.

**03.10.1994** Service defect: 'TS - ELECTRICAL MAINTENANCE -WIRING - WIRING REPLACED UNDER CAB FLOOR.'.

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**19.07.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRICATORS FITTED.'.

**20.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH RENEWED.'.

**26.07.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.

**26.07.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**04.08.1989** Service defect: 'UN - DYNAMIC BRAKE - D/BRAKE REPAIRED.'.

**04.08.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**04.08.1989** Service defect: 'UN - VIGILANCE - REPAIRED VIGILANCE.'.

**04.08.1989** Service defect: 'UN - WHEELSLIP - W/SLIP REPAIRED.'.

**18.08.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.

**18.08.1989** Service defect: 'B - EXHAUST - BELLOW CHANGED.'.

**18.08.1989** Service defect: 'UN - OTHER BODY REPAIRS - CHECKED DRAUGHTS IN CAB 'OK'.'.

**18.08.1989** Service defect: 'UN - TRACTION MOTOR - BELLOW REPL.'.

**18.10.1989** Service defect: 'TW - AUXILLARY MACHINES - REPLL. DRIVE BELT ON AUX.GENERATOR.'.

**18.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**20.10.1989** Service defect: 'UN - NO FAULT FOUND - AMPS & W/SLIP TESTED 'OK'.'.

**01.11.1989** Service defect: 'UN - NO FAULT FOUND - F/DIVERSION CHECKED 'OK'.'.

**14.11.1989** Service defect: 'B - MECHANICAL EQUIPMENT - REPAIRED FRONT WIPER.'.

**14.11.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.

**29.11.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - (1)SET OF WHEELS CHANGED. (SHARP FLANGES)'.

**14.12.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (11)LAMPS REPLACED.'.

**14.12.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**14.12.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.& AUTO B/HEAD REPL.(OVER CHARGING)'.

**14.12.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.

**12.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 21-12-89.'.

**27.09.1990** Service defect: 'B - BOGIE MAINTENANCE - SPRINGS - REAR MAIN SPRING HAS GONE WEAK'.

**27.09.1990** Service defect: 'B - CONTACTOR EP VALVES - E.P.VALVE ON REVERSER REPLACED'.

**27.09.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - FDC1 AND MC1 FREED UP'.

**27.09.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - SANDING VALVE REPLACED'.

**27.09.1990** Service defect: 'B - GENERAL - LOCO STORED AFTER SERVICE'.

**27.09.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - 6 MAIN GEN.BRUSHES REPLACED'.

**27.09.1990** Service defect: 'B - MECHANICAL EQUIPMENT - AIR HOSE REPLACED'.

**27.09.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 7 BRAKE BLOCKS REPLACED'.

**27.09.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 T/M BRUSHES REPLACED'.

**23.01.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - MCC1 CONTACT SPRING REPLACED'.

**23.01.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 6 LAMPS REPLACED'.

**23.01.1991** Service defect: 'B - ENGINE WATER LEAK - WATER HOSE REPLACED'.

**23.01.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 478379KM.'.

**23.01.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 14 MAIN GENERATOR BRUSHES REPLACED'.

**23.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 1 AIR FILTER REPLACED'.

**23.01.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND BOX REPLACED,1 SAND VALVE REPLACED'.

**23.01.1991** Service defect: 'B - MECHANICAL

MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED'.
**23.01.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - 4 T/M BRUSHES REPLACED'.

**ZC 42**

Details: locomotive 'ZC 42 N' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $113730
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1341
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 18.09.1996 | | |
| A Service Mileage: | 513543 KM | A Service Date: | 19.09.1994 |
| B Service Mileage: | 592816 KM | B Service Date: | 13.06.1996 |
| C Service Mileage: | 448621 KM | C Service Date: | 25.02.1993 |
| US Service Mileage: | 614542 KM | A Service Date: | 18.09.1996 |

**11.10.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS REPL.(WORN OUT)'.
**11.10.1989** Service defect: 'UN - GENERAL - 'A'SERVICE.'.
**17.10.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.& ENGINE ROOM LIGHT REPAIRED.'.
**17.10.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**17.10.1989** Service defect: 'TW - RADIO REPAIR - RADIO HANDSET REPL.'.
**30.10.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**30.10.1989** Service defect: 'UN - NO FAULT FOUND - LIGHTING CIRCUIT BREAKER TESTED 'OK''.
**16.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - H/BRAKE GREASED & ADJ.'.
**16.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SOUND WARNING - WHISTLE CLEARED.'.
**16.11.1989** Service defect: 'UN - TRACTION MOTOR - (1)BELLOW REPL.'.
**04.12.1989** Service defect: 'UN - COOLING SYSTEM - WATER GAUGE CLEANED.'.
**04.12.1989** Service defect: 'UN - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTS ADJ.'.
**04.12.1989** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**04.12.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE GREASED.'.
**04.12.1989** Service defect: 'UN - TRACTION MOTOR - T/MOTOR BELLOW REFITTED.'.
**15.12.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**15.12.1989** Service defect: 'TW - RADIO REPAIR - RADIO REPAIRED.'.
**21.12.1989** Service defect: 'UN - CONTACTOR MISCELLANEOUS - B.M.R.REPAIRED.'.
**28.03.1990** Service defect: 'TS - GENERAL - *LOCO BOOKED OUT AT 2000HRS.ON 20-03-90.'.
**28.03.1990** Service defect: 'UN - GENERAL - LOCO CHECKED FOR FUMES 'OK''.'.
**28.03.1990** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK''.'.
**28.03.1990** Service defect: 'UN - VIGILANCE - DIODE REPLACED IN VIG.'.
**06.04.1990** Service defect: 'TW - GENERAL - *LOCO BOOKED OUT ON 04-04-90 AT 1400HRS.'.
**23.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 19-04-90.'.
**08.05.1990** Service defect: 'B - - (2)AUX. GEN.BRUSHES REPL.'.
**08.05.1990** Service defect: 'B - CONTACTOR MISCELLANEOUS - REPAIRED AIR LEAK ON MC1.'.
**08.05.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (4)LAMPS REPL.'.
**08.05.1990** Service defect: 'B - ENGINE - TIMING CHAIN ADJ.'.
**08.05.1990** Service defect: 'B - ENGINE WATER LEAK - WATER LEAKS REPAIRED'.
**08.05.1990** Service defect: 'B - FUEL SYSTEM - NO.3 'A'BANK FUEL CAM GROUND SMOOTHER.'.
**08.05.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (17)BRUSHES REPL.'.
**08.05.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - (2)SANDERS REPL.'.
**08.05.1990** Service defect: 'B - RADIO REPAIR - REPL.RADIO & HANDSET.'.
**08.05.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (12)BRUSHES REPL.'.
**18.07.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**18.07.1990** Service defect: 'B - ENGINE CYLINDER HEADS - NO.1'A'BANK & NO.3'B'BANK HEAD GASKETS REPL.'.
**18.07.1990** Service defect: 'B - EXHAUST - (3)BELLOWS REPL.'.
**18.07.1990** Service defect: 'B - FUEL SYSTEM INJECTORS - NO.3&4 'A'BANK F/CAMS & ROLLERS REPL.& NO1 'A'BANK ROLLER'.
**18.07.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 441474K/M.'.
**18.07.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (5)BRUSHES REPL.'.
**18.07.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**15.10.1990** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**15.10.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - FRONT T/M BLOWER AND AUX.GEN.BELT REPLACED,EXHAUST BELLOW CHANGED'.
**15.10.1990** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBO .A.BANK CHARGE COOLER REPLACED'.
**15.10.1990** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - TOP FAN COUPLING PLATE REPLACED'.

**15.10.1990** Service defect: 'B - MECHANICAL EQUIPMENT COMPRESSOR - BOTH ENDS COMP.DRIVE SHAFT REPLACED'.
**17.02.1991** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**17.02.1991** Service defect: 'C - EXHAUST - EXHAUST BELLLOW REPLACED'.
**17.02.1991** Service defect: 'C - FUEL SYSTEM PUMP - NO.6 'A' FUEL PUMP WASHER REPLACED'.
**17.02.1991** Service defect: 'C - MECHANICAL EQUIPMENT - THROTTLE PIPE REPLACED'.
**10.07.1991** Service defect: 'TW - ELECTRICAL MISC. AC/DC RELAYS - C.L.R.2 CONTACT ASSEMBLY REPAIRED'.
**10.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**10.07.1991** Service defect: 'TW - RADIO REPAIR - RADIO REPLACED'.
**27.07.1991** Service defect: 'B - BOGIE - BOGIES OUT OF ZC6 FITTED A/C SHARP FLANGES ON 4 & 6 WHEELS'.
**27.07.1991** Service defect: 'B - CONTACTOR MISCELLANEOUS - AIR LEAKS ON MAIN CONTACTORS REPAIRED'.
**27.07.1991** Service defect: 'B - ELECTRICAL MISC - FUSES/HOLDERS - RADIATOR DOOR SWITCH REPAIRED'.
**27.07.1991** Service defect: 'B - MAIN GENERATOR BRUSHES - 2 MAIN GEN. BRUSHES REPLACED'.
**27.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT - 6 GLOBES REPLACED,CAB LIGHT REPAIRED.'.
**27.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT - WHISTLES MODIFIED'.
**27.07.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SANDER REPAIRED'.
**30.07.1991** Service defect: 'UN - NO FAULT FOUND - LOCO MEGGERED OK.,MAIN CIRCIUT BREAKER TESTED OK'.
**05.08.1991** Service defect: 'UN - GENERAL - **** A SERVICE COMPLETE ****'.
**05.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - WHEEL FLANGE LUBRICATORS REPAIRED A/C MAGNET IN SPEEDO NOT OPERATING SWITCH'.
**15.08.1991** Service defect: 'UN - DRIVER FAULT - AMP PROBLEM A RESULT OF JUMPER CABLE NOT FITTED PROPERLY'.
**20.08.1991** Service defect: 'UN - NO FAULT FOUND - COULD NOT FAULT AMPS'.
**24.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**24.09.1991** Service defect: 'TW - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**04.10.1991** Service defect: 'UN - ENGINE WATER LEAK - RUBBER HOSE ON WATER RAIL REPLACED'.
**04.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER REPLACED'.
**05.10.1991** Service defect: 'UN - NO FAULT FOUND - LOCO TESTED OK. A/C BELLS RINGING'.
**15.10.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK IN RADIATOR COMPARTMENT REPAIRED'.
**16.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED'.
**24.10.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - FLANGE LUBRICATORS MADE WORKABLE'.
**24.10.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DAMAGED TRACTION MOTOR COVER REPLACED ON NO.1 TRACTION MOTOR'.
**24.10.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - OIL CLEANED OFF FOOTPLATE'.
**04.11.1991** Service defect: 'UN - GENERAL - LOCO MADE A 'B' SERVICE'.
**12.11.1991** Service defect: 'B - BOGIE - AXLES TESTED,CRATER BOXES 1,4,5 & 6 REPAIRED,T/M BELLOW REPLACED'.
**12.11.1991** Service defect: 'B - ENGINE WATER LEAK - WATER HOSE CLAMP TIGHTENED IN RADIATOR COMPARTMENT'.
**12.11.1991** Service defect: 'B - EXHAUST - EXHAUST BELLOWS REPLACED'.
**12.11.1991** Service defect: 'B - MECHANICAL EQUIPMENT - FRONT TRACTION MOTOR BLOWER REPAIRED,HORNS REPAIRED'.
**12.11.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED & SAND HOSE REPAIRED'.
**15.11.1991** Service defect: 'UN - NO FAULT FOUND - LOCO MEGGERED OK..'.
**19.12.1991** Service defect: 'TW - GENERAL LOSS OF POWER - DROPPING AMPS. A SERVICE COMPLETED.'.
**07.05.1992** Service defect: 'TS - ENGINE WATER LEAK - NO WATER LEAK FOUND.'.
**07.05.1992** Service defect: 'TS - LUBRICATING SYSTEM - FLANGE LUBE OIL TANK REPLACED.'.
**07.05.1992** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER CABLE REPLACED.'.
**19.05.1992** Service defect: 'UN - COOLING SYSTEM - SPLIT HEADER TANK REPAIRED.'.
**19.05.1992** Service defect: 'UN - EXHAUST - TWO EXHAUST GASKETS REPLACED.'.
**19.05.1992** Service defect: 'UN - FUEL SYSTEM INJECTORS - FULL SET OF INJECTORS CHANGED.'.
**19.05.1992** Service defect: 'UN - FUEL SYSTEM PUMP - #3A FUEL PUMP REPLACED, #5B FUEL PUMP TIMED.'.
**25.05.1992** Service defect: 'UN - RADIO REPAIR - RADIO MODIFICATION COMPLETED.'.
**01.06.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - FRONT TRACTION MOTOR BLOWER BEARINGS NOISY. UNIT REPLACED.'.
**06.06.1992** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRE REPLACED ON VIGILANCE.'.
**06.06.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - AIR LEAK REPAIRED.'.
**09.06.1992** Service defect: 'UN - OTHER BODY REPAIRS - REPLACED BROKEN WINDOW CAUSED BY VANDALS.'.
**01.07.1992** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER CHANGED. CHARGE COOLER CHANGED.'.
**01.07.1992** Service defect: 'UN - OTHER BODY REPAIRS - CAB MODIFICATIONS CARRIED OUT.'.
**03.07.1992** Service defect: 'UN - NO FAULT FOUND - FAULT REPORTED AS NO POWER. LOAD REGULATOR CHECKED AND FIELDDIVERSION RELAYS CHECKED. NO FAULT FOUND.'.
**10.07.1992** Service defect: 'UN - GENERAL - MISSING FIRE EXTINGUISHER REPLACED.'.
**10.07.1992** Service defect: 'UN - NO FAULT FOUND - PHONE REPORTED FAULTY. NO FAULT FOUND.'.

**24.07.1992** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - ONE SAND BOX REPAIRED.'.
**24.07.1992** Service defect: 'TW - NO FAULT FOUND - FAULT IN PC2 SUSPECTED WITH REPORT OF 150 AMP DISCHARGE. TEST REVEALED NO FAULT.'.
**29.07.1992** Service defect: 'UN - ELECTRICAL MISC. AC/DC RELAYS - AUXILLIARY VOLTAGE RELAY REPLACED.'.
**29.07.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB LIGHT REPLACED.'.
**29.07.1992** Service defect: 'UN - GENERAL - ARM REST REPAIRED.'.
**31.07.1992** Service defect: 'UN - NO FAULT FOUND - AMPS FAULT REPORTED WHEN THIS LOCO CONNECTED TO ZC20. THOUGHT TO HAVE BEEN CAUSED BY LOOSE JUMPER LEAD.'.
**07.08.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE PRESSURE GAUGE ADJUSTED.'.
**10.08.1992** Service defect: 'UN - NO FAULT FOUND - LOW AMPS FAULT REPORTED WHEN THIS LOCO WORKING OUT OF LONG REACH. TAKEN FOR TEST RUN AND NO FAULT FOUND.'.
**12.08.1992** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - FAULTY HAND BRAKE SWITCH REPLACED.'.
**05.09.1992** Service defect: 'TW - FUEL SYSTEM PUMP - FUEL PRIMING PUMP REPLACED DUE TO NOISY WORN BEARINGS.'.
**10.09.1992** Service defect: 'B - COOLING SYSTEM - WATER FITTING REPAIRED AND RUBBERS RENEWED NEAR WATER PUMP.'.
**10.09.1992** Service defect: 'B - ELECTRICAL MISCELLANEOUS - NEW HOTPLATE INSTALLED.'.
**10.09.1992** Service defect: 'B - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**10.09.1992** Service defect: 'B - EXHAUST - EXHAUST BELLOW REPLACED.'.
**10.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT - FLANGE LUBRICATORS REPAIRED.'.
**10.09.1992** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED AND SAND PIPE SET TO RAIL.'.
**10.09.1992** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ONE BRAKE BLOCK REPLACED AND BRAKES ADJUSTED.'.
**26.09.1992** Service defect: 'UN - COOLING SYSTEM RADIATOR - WATER LEAK IN RADIATOR COMPARTMENT REPAIRED.'.
**17.10.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND PIPES ALIGNED.'.
**17.10.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**31.10.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - TRAILING HEADLIGHT GLOBES REPLACED.'.
**07.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**09.11.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE PIPE HOSE RUBBER REPLACED.'.
**08.12.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED SMOKE COMING FROM FAN. CHECKED AND NO FAULT FOUND.'.
**10.02.1993** Service defect: 'UN - ELECTRICAL MISC. GROUND RELAY - EARTH FAULTS REMOVED FROM CONTROL CIRCUIT.'.
**25.02.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**25.02.1993** Service defect: 'C - FUEL SYSTEM PUMP - NUMBER 5 AND 6 FUEL PUMP WASHERS REPLACED ON A BANK.'.
**25.02.1993** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - REAR FAN DRIVE COUPLING RUBBERS REPLACED.'.
**25.02.1993** Service defect: 'C - MECHANICAL EQUIPMENT - TRACTION MOTOR BELLOWS REPLACED.'.
**25.02.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED. 1 SAND PIPE REPAIRED.'.
**25.02.1993** Service defect: 'C - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**04.03.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE VALVE REPLACED.'.
**13.03.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB FAN REPOSITIONED.'.
**13.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS PLUGGED.'.
**26.03.1993** Service defect: 'UN - COOLING SYSTEM - WATER FILLER NON RETURN VALVE REPLACED.'.
**26.03.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB SINK HOLE PLUGGED TO STOP FUME ENTRY.'.
**22.04.1993** Service defect: 'TW - MECHANICAL EQUIPMENT SANDING GEAR - AIR PIPE REPLACED TO REAR BOGIE SANDERS. SAND PIPES SET TO RAIL.'.
**23.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AMPS WARNING ALARM SOUNDING. CHECKED NO FAULT FOUND'.
**23.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - BROKEN STEP WELDED.'.
**06.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED FAULT PC2, VIGILANCE AND SMOKE UNDER CAB. CHECKED AND NO FAULTS FOUND.'.
**15.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**15.05.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - OUTER CABLE SHORTENED ON DRIVERS SIDE SPEEDOMETER.'.
**17.06.1993** Service defect: 'B - DYNAMIC BRAKE - DYNAMIC BRAKE TAKEN OUT OF SERVICE. TO BE REPAIRED AT LATER DATE.'.
**17.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED.'.
**17.06.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**19.06.1993** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE RESISTANCES CATCHING FIRE. DYNAMIC BRAKE ISOLATED AND LOCO PUT BACK INTO SERVICE.'.
**30.06.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - CONTROL EARTHS IN ENGINE ROOM WIRING CLEARED.'.
**14.07.1993** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.
**16.07.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED AUX LIGHT CIR BREAKER TRIPPING. NO

FAULT FOUND.'.

**20.07.1993** Service defect: 'UN - RADIO REPAIR - TRANSCEIVER UNIT REPLACED. PHONE HANDSET CHECKED.'.

**26.07.1993** Service defect: 'UN - OTHER BODY REPAIRS - FIREMANS SIDE DOOR LOCK REPAIRED.'.

**28.07.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - 2 FLUORESCENT STRIPS AND 1 INVERTOR REPLACED IN GAUGE LIGHTS'.

**09.08.1993** Service defect: 'UN - MECHANICAL EQUIPMENT BRAKE VALVE - BRAKE HEAD REPLACED.'.

**11.08.1993** Service defect: 'UN - OTHER BODY REPAIRS - CAB DRAUGHTS REPAIRED.'.

**18.08.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**25.08.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - CIRCUIT BOARDS REPLACED IN LOAD REGULATOR.'.

**25.08.1993** Service defect: 'UN - VIGILANCE - MECHANICAL REPAIRS CARRIED OUT ON VIGILANCE.'.

**16.09.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**22.09.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS BURNT WIRING - BURNT WIRING REPLACED TO REAR MARKER LIGHT.'.

**14.12.1993** Service defect: 'UN - OTHER BODY REPAIRS - COLLISION DAMAGE REPAIRS CARRIED OUT.'.

**26.01.1994** Service defect: 'TW - ELECT. MISC. - GAUGES & INSTRUMENTS - SPEEDO LIGHT REPAIRED.'.

**26.01.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.

**03.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**12.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED.'.

**16.02.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 2 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**16.02.1994** Service defect: 'TW - RADIO REPAIR - HANDSET REPLACED.'.

**15.03.1994** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CARDS REPLACED.'.

**22.03.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.

**30.03.1994** Service defect: 'UN - FUEL SYSTEM PUMP - FUEL PRIMING PUMP REPLACED WITH PUMP EX ZC26.'.

**25.04.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.

**02.05.1994** Service defect: 'UN - COOLING SYSTEM - WATER LEAK IN HEADER TANK PIPE REPAIRED.'.

**02.05.1994** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULTS IN ENGINE ROOM TERMINAL BOARD CLEARED.'.

**10.05.1994** Service defect: 'UN - MAIN GENERATOR FLASHOVER - MINOR MAIN GENERATOR FLASHOVER. GENERATOR CLEANED AND TESTEDOK.'.

**06.06.1994** Service defect: 'B - CONTACTOR MISCELLANEOUS - REPLACED MOTOR CONTACTS. CLEANED PC1, PC2, EFR AND AR CONTACTS.'.

**06.06.1994** Service defect: 'B - MAIN GENERATOR BRUSHES - REPLACED 32 BRUSHES IN MAIN GENERATOR REPLACED 12 BRUSHES IN AUX GEN.'.

**06.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT - 2 FLANGE LUBE PIPES REPLACED. 1 TRAC MOT BLOWER BELT REPLACED.'.

**06.06.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED. 1 M.R. HOSE AND 1 WATER HOSE ON RADIATOR REPLACED.'.

**06.06.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED. 1 TRACTION MOTOR BOLT REPLACED.'.

**06.06.1994** Service defect: 'B - TRACTION MOTOR BRUSHES - 12 TRACTION MOTOR BRUSHES REPLACED. MODIFIED FLANGE LUBE ELECT EQUIPMENT.'.

**28.06.1995** Service defect: 'TS - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS FAILED'.

### ZC 43

Details: locomotive 'ZC 43 W' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $108720
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1342
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 13.09.1996 | | |
| A Service Mileage: | 724177 KM | A Service Date: | 29.09.1994 |
| B Service Mileage: | 793464 KM | B Service Date: | 27.05.1996 |
| C Service Mileage: | 744153 KM | C Service Date: | 05.05.1995 |
| US Service Mileage: | 793464 KM | A Service Date: | 24.06.1996 |

**16.08.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.

**16.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.

**11.09.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO LIGHT REPAIRED.'.

**11.09.1989** Service defect: 'UN - NO FAULT FOUND - VIGILANCE TESTED 'OK'.'.

**06.12.1989** Service defect: 'UN - FUEL SYSTEM - REPAIRED FUEL TANK.'.

**06.12.1989** Service defect: 'UN - GENERAL - WINDOW REPL.(BROKEN)'.

**11.12.1989** Service defect: 'B - CONTACTOR MISCELLANEOUS - ALL CONTACTS CLEANED & TRUED UP'.

**11.12.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (8)LAMPS REPL., INTERIOR LIGHT SECURED & RAD.DOOR SWITCH ADJ'.

**11.12.1989** Service defect: 'B - FUEL SYSTEM - FUEL GUAGE REPLACED.'.
**11.12.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (7)BRUSHES REPL.'.
**11.12.1989** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDER REPLACED.'.
**11.12.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**12.03.1990** Service defect: 'UN - GENERAL - LOCO BOOKED OUT ON 20-12-89.'.
**14.03.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 13-03-90.'.
**15.03.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - AXLES TESTED'.
**15.03.1991** Service defect: 'B - GENERAL - SPEEDO ON LOCO READ 135983KM.'.
**15.03.1991** Service defect: 'B - MECHANICAL EQUIPMENT - EXHUST BELLOW REPLACED,NO.3(B)BANK H.P.PIPE TIGHTENED'.
**22.05.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK IN RADIATOR COMPARTMENT REPAIRED'.
**22.05.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CHECKED O.K.'.
**17.07.1991** Service defect: 'TW - ENGINE WATER LEAK - WATER LEAK IN RADIATOR COMPARTMENT REPAIRED'.
**17.07.1991** Service defect: 'TW - GENERAL - **** A SERVICE ****'.
**17.07.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED'.
**17.07.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE GREASED'.
**18.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH WHEELSLIP OR FAULT LIGHTS'.
**19.07.1991** Service defect: 'UN - MECHANICAL EQUIPMENT - FRONT WINDSCREEN WIPER BLADE REPLACED'.
**23.07.1991** Service defect: 'UN - NO FAULT FOUND - NO FAULT FOUND WITH TRAIN PIPE OVERCHARGING'.
**24.07.1991** Service defect: 'UN - VIGILANCE - VIGILANCE PEDAL SECURED TO FLOOR'.
**25.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - DRIVERS SIDE SPEEDO CABLE REPLACED'.
**30.07.1991** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT DIM SWITCH REPLACED'.
**30.07.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED'.
**07.08.1991** Service defect: 'TS - ELECTRICAL MISCELLANEOUS - HANDBRAKE SWITCH ADJUSTED A/C AMP PROBLEMS'.
**07.08.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - SPEEDOMETER - DRIVE END OF D/S SPEEDO CABLE REPLACED'.
**08.08.1991** Service defect: 'UN - RADIO REPAIR - RADIO REPLACED'.
**14.08.1991** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - 1 FLANGE LUBE BOX REPAIRED'.
**14.08.1991** Service defect: 'B - ELECTRICAL MAINTENANCE -WIRING - WIRING TO VIGILANCE BUTTON REPAIRED'.
**14.08.1991** Service defect: 'B - ELECTRICAL MISCELLANEOUS - 8 GLOBES REPLACED'.
**14.08.1991** Service defect: 'B - ENGINE WATER LEAK - WATER LEAK ON WATER RAIL REPAIRED,WATER LEAK ON WATER PUMP REPAIRED'.
**14.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT - HORNS MODIFIED'.
**14.08.1991** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 4 SANDERS MADE WORKABLE,1 SAND VALVE REPLACED'.
**14.08.1991** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BLOCK REPLACED & ADJUSTED'.
**14.08.1991** Service defect: 'B - TRACTION MOTOR BRUSHES - BOTTOM BRUSH BOX INSULATOR ON NO.4 TRACTION MOTOR REPAIRED'.
**31.08.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEEL FLANGE LUBRICATOR RESERVOIR REPAIRED'.
**31.08.1991** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND BOX REPAIRED'.
**31.08.1991** Service defect: 'UN - OTHER BODY REPAIRS - SUNSHADE REPLACED'.
**03.09.1991** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - DIMMER KNOB REPLACED,CAB FAN REPAIRED'.
**03.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER REPLACED'.
**09.09.1991** Service defect: 'TW - BOGIE MAINTENANCE - WHEELS - WHEELS TESTED & LOCO ISSUED'.
**09.09.1991** Service defect: 'TW - GENERAL - **** A SERVICE COMPLETE ****'.
**09.09.1991** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE REPLACED'.
**09.09.1991** Service defect: 'TW - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**10.09.1991** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH IN VIGILANCE BOX TRACED & REPAIRED'.
**18.09.1991** Service defect: 'TS - FUEL SYSTEM - FUEL LEAK AT FUEL GAUGE REPAIRED'.
**18.09.1991** Service defect: 'TS - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED'.
**25.09.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BROKEN BRAKE PIPE COCK REPLACED'.
**02.10.1991** Service defect: 'TS - MECHANICAL EQUIPMENT - TRAIN PIPE LEAK REPAIRED'.
**02.10.1991** Service defect: 'TS - NO FAULT FOUND - LOCO AMPS TESTED OK.'.
**15.10.1991** Service defect: 'UN - ENGINE WATER LEAK - WATER LEAK REPAIRED'.
**15.10.1991** Service defect: 'UN - LUBRICATING SYSTEM OIL COOLER - OIL COOLER REPLACED'.
**16.10.1991** Service defect: 'UN - LUBRICATING SYSTEM - BROKEN OIL PIPE AT REAR OF ENGINE REPLACED'.
**22.10.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE HEAD REPLACED'.
**24.10.1991** Service defect: 'UN - ENGINE WATER LEAK -

WATER LEAK REPAIRED'.
**26.10.1991** Service defect: 'UN - ENGINE WATER LEAK - BROKEN WATER PIPE REPLACED'.
**08.11.1991** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - WHEELS CHECKED OK.'.
**08.11.1991** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDO CABLE CHECKED OK.,SPEEDO TO BE REPLACED'.
**19.12.1991** Service defect: 'UN - GENERAL LOSS OF POWER - DROPPING AMPS.'.
**08.05.1992** Service defect: 'UN - FUEL SYSTEM - DIRTY FUEL FILTERS CAUSING FUEL STARVATION AND POPPING GOVERNOR BUTTON OUT. FILTERS CHANGED AND TESTED ON LOAD TANK.'.
**12.05.1992** Service defect: 'UN - RADIO REPAIR - RADIO REPAIRED.'.
**14.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO FAULT REPAIRED.'.
**18.05.1992** Service defect: 'UN - RADIO REPAIR - UHF RADIO REPAIR.'.
**29.05.1992** Service defect: 'UN - DYNAMIC BRAKE - AMPS FLUCTUATNG, FAULT FIX.'.
**03.06.1992** Service defect: 'TS - ELECTRICAL MISC. AC/DC RELAYS - DLR2 RELAY REPAIRED.'.
**20.06.1992** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - CAB HEATER ELEMENTS REPLACED.'.
**27.06.1992** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - STIFF CONTROLLER FREED UP.'.
**27.06.1992** Service defect: 'UN - NO FAULT FOUND - FAULT IN LOCOMOTIVE WARNING HORN. CHECKED AND NO FAULT FOUND'.
**01.07.1992** Service defect: 'TW - MECHANICAL EQUIPMENT - REPORTED VIBRATION CAUSED BY LOOSE TRACTION MOTOR BLOWER COVER. PACKED OUT AND TIGHTENED.'.
**01.07.1992** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - JUMPING SPEEDOMETER CAUSED BY DRY SPEEDO CABLE. GREASED & OK'.
**01.07.1992** Service defect: 'TW - NO FAULT FOUND - REPORTED FAULT OF DROPPING AMPS. NO FAULT FOUND.'.
**15.07.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - ONE HEADLIGHT GLOBE REPLACED.'.
**15.07.1992** Service defect: 'UN - MECHANICAL MAINTENANCE - SPEEDOMETER - SPEEDOMETER INNER DRIVE CABLE REPLACED.'.
**16.07.1992** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - ONE LIGHT GLOBE REPLACED IN HEADLIGHT.'.
**23.07.1992** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDS CLEARED.'.
**23.07.1992** Service defect: 'UN - NO FAULT FOUND - WHEEL SLIP FAULT REPORTED. TEST RUN NO FAULT FOUND.'.
**23.07.1992** Service defect: 'UN - RADIO REPAIR - PHONE REPROGRAMMED.'.
**24.11.1992** Service defect: 'UN - MECH. EQUIPMENT RADIATOR FAN GEARBOX - BEARINGS REPLACED IN RADIATOR FAN GEARBOX.'.
**26.11.1992** Service defect: 'UN - DYNAMIC BRAKE - DYNAMIC BRAKE GRIDS BURNT OUT. DYNAMIC BRAKE DISCONNECTED.'.
**11.12.1992** Service defect: 'UN - NO FAULT FOUND - CHECK. NO FAULTS FOUND.'.
**21.12.1992** Service defect: 'TW - OTHER BODY REPAIRS - BODY REPAIRS CARRIED OUT FOLLOWING COLLISION WITH CONTAINER.'.
**05.03.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - TRACTION MOTOR BLOWER CONTACTS CLEANED.'.
**13.03.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - NUMBER 3 TRACTION MOTOR BELLOWS REPLACED.'.
**30.03.1993** Service defect: 'C - ENGINE CYLINDER HEADS - EXHAUST TAPPET ADJUSTED ON 5B HEAD.'.
**30.03.1993** Service defect: 'C - ENGINE TURBOCHARGER/SUPERCHARGER - TURBOCHARGER DRAINS CLEARED.'.
**30.03.1993** Service defect: 'C - FUEL SYSTEM LINES - HIGH PRESSURE PIPE REPLACED.'.
**30.03.1993** Service defect: 'C - LUBRICATING SYSTEM - FLANGE LUBE PUMP TIGHTENED.'.
**30.03.1993** Service defect: 'C - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN SPLINE SHAFT AND COUPLING REPLACED. FRONT AND REAR SPLINE SHAFTS AND COUPLINGS REPLACED.'.
**30.03.1993** Service defect: 'C - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**07.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT - FLANGE LUBE TANKS TOPPED UP.'.
**07.04.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**07.04.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**10.04.1993** Service defect: 'UN - RADIO REPAIR - PHONE WAS REMOVED TO PUT IN ANOTHER LOCOMOTIVE. PHONE REPLACED.'.
**21.04.1993** Service defect: 'TW - COOLING SYSTEM - CORROSION INHIBITOR ADDED TO COOLING WATER.'.
**21.04.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED FAULT HORN SOUNDING AND INTERMITTENT BOOST FAILURE.CHECKED AND NO FAULT FOUND.'.
**24.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AMPS FAULT. MEGGERED AND CHECKED OUT OK. PUT BACK INTO SERVICE.'.
**27.04.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED DROPPING AMPS UNDER FULL LOAD. CHECKED AND NO FAULTFOUND. TO BE TEST RUN TOMMOROW.'.
**27.04.1993** Service defect: 'UN - OTHER BODY REPAIRS - TIGHT FIREMANS SIDE CAB WINDOW FREED UP.'.
**06.05.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED ONLY GETTING 1100 AMPS AND RADIO FAULT. CHECKED ANDNO FAULTS FOUND.'.
**05.06.1993** Service defect: 'UN - ELECT. MISC. - GAUGES & INSTRUMENTS - FLUORESCENT RIBBON GAUGE LIGHT MOD CARRIED OUT.'.
**05.06.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - CAB HEATER MOD CARRIED OUT. FLUORESCENT LIGHTS INSTALLED IN CAB.'.
**05.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SAND HOSES REPLACED.'.
**12.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**12.06.1993** Service defect: 'UN - MECHANICAL

MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**19.06.1993** Service defect: 'UN - NO FAULT FOUND - REPORTED AMPS FAULT. CHECKED AND NO FAULT FOUND.'.
**23.06.1993** Service defect: 'B - MECH. EQUIPMENT RADIATOR FAN GEARBOX - FAN SHAFT REPLACED.'.
**23.06.1993** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS MADE WORKABLE. 1 SAND HOSE REPLACED.'.
**23.06.1993** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 6 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**30.06.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**30.06.1993** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**03.07.1993** Service defect: 'UN - NO FAULT FOUND - CHECK.'.
**12.07.1993** Service defect: 'UN - ELECTRICAL MISC - LOAD REGULATOR - LOAD REGULATOR CIRCUIT BOARDS REPLACED.'.
**12.07.1993** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - OVERLOADS ADJUSTED.'.
**19.07.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - LIGHTING EARTHS CLEARED.'.
**24.07.1993** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - WIRING REPLACED IN ONE SECTION OF LIGHTING CIRCUIT.'.
**28.07.1993** Service defect: 'TW - NO FAULT FOUND - REPORTED VIGILANCE DROPPING WITH NO WARNING. CHECKED AND NO FAULT FOUND.'.
**31.07.1993** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**31.07.1993** Service defect: 'UN - NO FAULT FOUND - VIGILANCE CHECHED OK.'.
**12.08.1993** Service defect: 'UN - EARTH FAULT MISCELLANEOUS - EARTH FAULT CLEARED IN FIELD DIVERSION BY CLEANING AND PAINTING INSULATORS.'.
**19.08.1993** Service defect: 'TW - MECHANICAL EQUIPMENT - FLANGE LUBE REPAIRS CARRIED OUT.'.
**19.08.1993** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJUSTED.'.
**28.08.1993** Service defect: 'UN - VIGILANCE - VIGILANCE BOX REPAIRED.'.
**06.09.1993** Service defect: 'UN - LUBRICATING SYSTEM - WATER CONTENT IN OIL AND OIL DISPERSANCY IMPAIRED. ENGINE OIL CHANGE CARRIED OUT.'.
**07.09.1993** Service defect: 'UN - NO FAULT FOUND - BOOST DETECTION RELAY FAULT REPORTED. CHECKED AND NO FAULT FOUND.'.
**06.10.1993** Service defect: 'TW - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED.'.
**08.02.1994** Service defect: 'B - EXHAUST - NUMBER 3A EXHAUST PIPE REPLACED. 1 EXHAUST BELLOW REPLACED.'.
**08.02.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED.'.
**08.02.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**10.02.1994** Service defect: 'B - EXHAUST - EXHAUST PIPE #3A REPLACED AS IT HAD HOLE BURNED IN IT.1 EXHTBELLOW REPLACED. THIS WAS LFO 10 TRIAL LOCO FOR 3 MONTHS'.
**10.02.1994** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - 1 SAND HOSE REPLACED.'.
**10.02.1994** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**17.02.1994** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH REPLACED.'.
**18.02.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 1 BRAKE BLOCK REPLACED AND ADJUSTED.'.
**15.03.1994** Service defect: 'UN - GENERAL - FIRE EXTINGUISHER REPLACED.'.
**15.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 5 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**15.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ADJUSTER REPLACED. BRAKE HANGER REPAIRED.'.
**15.03.1994** Service defect: 'UN - TRACTION MOTOR - TRACTION MOTOR COVER REPLACED.'.
**21.03.1994** Service defect: 'UN - ELECTRICAL MISC. HEADLIGHT - HEADLIGHT REPAIRED.'.
**21.03.1994** Service defect: 'UN - MECHANICAL EQUIPMENT - HORN REPAIRED.'.
**21.03.1994** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**21.03.1994** Service defect: 'UN - RADIO REPAIR - RADIO AND PHONE REPAIRED.'.
**20.04.1994** Service defect: 'TW - ELECTRICAL MISC. HEADLIGHT - HEADLIGHTS REPAIRED.'.
**20.04.1994** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - 4 BRAKE BLOCKS REPLACED AND ADJUSTED.'.
**02.05.1994** Service defect: 'UN - ELECTRICAL MIS. EDDY CURRENT CLUTCH - EDDY CURRENT CLUTCH MAGNET REPLACED.'.
**24.05.1994** Service defect: 'A - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED. BEARING BOX BOLT REPLACED.'.
**24.05.1994** Service defect: 'A - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**30.05.1994** Service defect: 'UN - OTHER BODY REPAIRS - ROOF REPAIRS CARRIED OUT.'.
**23.06.1994** Service defect: 'UN - ELECTRICAL MAINTENANCE -WIRING - REPLACED BURNT WIRE TO FUEL PRIMING PUMP.'.
**09.07.1994** Service defect: 'UN - ENGINE CYLINDER HEADS - NUMBER 1A CYLINDER HEAD REPLACED.'.
**09.07.1994** Service defect: 'UN - ENGINE TURBOCHARGER/SUPERCHARGER - A BANK TURBOCHARGER REPLACED.**********'.
**01.09.1994** Service defect: 'A - MECHANICAL EQUIPMENT - LOCO HORN REPAIRED.'.

**ZC 44**

Details: locomotive 'ZC 44 X' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D

**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Original Cost:** $123740
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** EX Q.R. 1343
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Corporate ID flag: | Y | | |
| Return to Service Date: | 30.05.1991 | | |
| B Service Mileage: | 437743 KM | B Service Date: | 18.10.1989 |
| US Service Mileage: | 445001 KM | A Service Date: | 30.05.1991 |

**13.07.1989** Service defect: 'UN - ELECTRICAL MISC - FUSES/HOLDERS - HEATER SWITCH RENEWED.'.
**13.07.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**10.08.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**10.08.1989** Service defect: 'TW - MECHANICAL MAINTENANCE - SPEEDOMETER - CABLE REPL.'.
**10.08.1989** Service defect: 'TW - OTHER BODY REPAIRS - STEP STRAIGHTENED.'.
**10.08.1989** Service defect: 'TW - TRACTION MOTOR - NO.3 COVER TIGHTENED UP.'.
**15.08.1989** Service defect: 'UN - NO FAULT FOUND - AMPS TESTED 'OK'.'.
**15.08.1989** Service defect: 'UN - VIGILANCE - REPAIRED VIGILANCE.'.
**14.09.1989** Service defect: 'TW - ELECTRICAL MISCELLANEOUS - (6)LAMPS REPL.'.
**14.09.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**18.10.1989** Service defect: 'B - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**18.10.1989** Service defect: 'B - ELECTRICAL MIS. EDDY CURRENT CLUTCH - E.C CLUTCH CLEANED.'.
**18.10.1989** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (10)LAMPS REPL.& ELECT.CUBICLE CLEANED OF OIL.'.
**18.10.1989** Service defect: 'B - EXHAUST - (2)BELLOWS RENEWED.'.
**18.10.1989** Service defect: 'B - FUEL SYSTEM PUMP - LEAK STOPPED AT NO.6 'B'BANK HEAD.'.
**18.10.1989** Service defect: 'B - MAIN GENERATOR BRUSHES - (6)BRUSHES REPL.'.
**18.10.1989** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE ROD REPAIRED.'.
**18.10.1989** Service defect: 'B - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**24.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKE BLOCK HANGER & SHOE REPL.(TWISTED)'.
**02.11.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - REPAIRED PANEL LIGHTS.'.
**02.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**22.11.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**04.12.1989** Service defect: 'UN - EXHAUST - BELLOWS REPL.'.
**04.12.1989** Service defect: 'UN - GENERAL - 'A'SERVICE.'.
**04.12.1989** Service defect: 'UN - TRACTION MOTOR - T/MOTOR BLOWER REPL.'.
**05.12.1989** Service defect: 'UN - RADIO REPAIR - REPAIRED FUSE HOLDER.'.
**30.05.1991** Service defect: 'UN - CENTRE COUPLING,BOGIES'.

**ZC 45**

Details: locomotive 'ZC 45 R' in AN 'Tasmania Division'.

**Owner:** AN
**Operator:** D
**Length Over Headstocks:** 14.6m
**Tare Weight:** 89.8tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** CO-CO
**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown
**Diagram Book Page No.:** T L35
**Date Built:** 01.01.1971
**Operating System:** AN
**Intended Use:** MAINLINE
**Installed Power:** 1082kw
**Remarks:** W/O 30.06.91;EX Q.R. 1344
**BSG Code:** LTAV

| | | | |
|---|---|---|---|
| Return to Service Date: | 30.05.1991 | | |
| B Service Mileage: | 400843 KM | B Service Date: | 24.08.1990 |
| C Service Mileage: | 373760 KM | C Service Date: | 12.03.1990 |
| US Service Mileage: | 401050 KM | A Service Date: | 30.05.1991 |

**19.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - GAUGE LIGHTS REPAIRED.'.
**19.10.1989** Service defect: 'UN - VIGILANCE - REPAIRED VIGILANCE.'.
**31.10.1989** Service defect: 'UN - BOGIE MAINTENANCE - WHEELS - ALL AXLES TESTED.'.
**31.10.1989** Service defect: 'UN - ELECTRICAL MISCELLANEOUS - SEVERAL LAMPS REPL.'.
**31.10.1989** Service defect: 'UN - LUBRICATING SYSTEM - OIL LEAK REPAIRED.'.
**31.10.1989** Service defect: 'UN - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**31.10.1989** Service defect: 'UN - NO FAULT FOUND - AMPS & VIGILANCE TESTED 'OK'.'.
**07.11.1989** Service defect: 'UN - ENGINE GOVERNOR MECHANICAL - TOPPED UP WITH OIL.'.
**07.11.1989** Service defect: 'UN - VIGILANCE - BCS.ADJUSTED.'.
**10.11.1989** Service defect: 'TW - GENERAL - 'A'SERVICE.'.
**12.03.1990** Service defect: 'C - BOGIE MAINTENANCE - WHEELS - (2)F/LUBE HOSES REPAIRED.'.
**12.03.1990** Service defect: 'C - CONTACTOR MISCELLANEOUS - ALL CONTACTS TRUED UP.'.
**12.03.1990** Service defect: 'C - ELECTRICAL MIS. EDDY CURRENT CLUTCH - E/CURRENT CLUTCH BRUSH BOX ADJ.'.

**12.03.1990** Service defect: 'C - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**12.03.1990** Service defect: 'C - GENERAL - *LOCO BOOKED OUT ON 20-12-89.'.
**12.03.1990** Service defect: 'C - MECHANICAL MAINTENANCE - SPEEDOMETER - GLOBE REPL.'.
**12.03.1990** Service defect: 'C - RADIO REPAIR - RADIO REPL.'.
**12.03.1990** Service defect: 'C - TRACTION MOTOR - CABLES TIED BACK.'.
**12.03.1990** Service defect: 'C - TRACTION MOTOR BRUSHES - (4)BRUSHES REPL.'.
**09.04.1990** Service defect: 'TW - ELECTRICAL MISC. VOLTAGE REGULATOR - VOLTAGE REGULATOR RENEWED.'.
**09.04.1990** Service defect: 'TW - GENERAL - *LOCO BOOKED OUT ON 29-03-1990 AT 1915HRS.'.
**09.04.1990** Service defect: 'TW - MECHANICAL MAINTENANCE - AIR BRAKE - BRAKES ADJ.'.
**10.04.1990** Service defect: 'B - ELECTRICAL MISC. AC/DC RELAYS - BDR1 RELAY REPL.'.
**10.04.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (2)LAMPS REPL.& STEP LIGHT SOCKET REPAIRED.'.
**10.04.1990** Service defect: 'B - MAIN GENERATOR BRUSHES - (4)BRUSHES REPL.'.
**10.04.1990** Service defect: 'B - TRACTION MOTOR BRUSHES - (8)BRUSHES REPL.'.
**23.04.1990** Service defect: 'UN - GENERAL - *LOCO BOOKED OUT ON 18-04-90.'.
**24.04.1990** Service defect: 'UN - ELECTRICAL MISC. JUMPER CABLES - FAULTY JUMPER CABLE. JUMPER REPLACED.'.
**05.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT - REPAIRED W/WIPER.'.
**05.06.1990** Service defect: 'UN - MECHANICAL EQUIPMENT SANDING GEAR - SANDBOX WELDED (CRACKED) & SANDPLUG REPL.(MISSING)'.
**24.08.1990** Service defect: 'B - AUXILLARY MACHINES - (2)AUX.GEN.BRUSHES REPL.'.
**24.08.1990** Service defect: 'B - ELECTRICAL MISCELLANEOUS - (3)LAMPS REPL.'.
**24.08.1990** Service defect: 'B - EXHAUST - (2)BELLOWS REPL.'.
**24.08.1990** Service defect: 'B - GENERAL - *SPEEDO ON LOCO READ 400032K/M.'.
**24.08.1990** Service defect: 'B - MECHANICAL EQUIPMENT COUPLER - C/COUPLING RELEASE BAR STRAIGHTENED.'.
**24.08.1990** Service defect: 'B - MECHANICAL EQUIPMENT SANDING GEAR - SANDERS CLEARED.'.
**24.08.1990** Service defect: 'B - MECHANICAL MAINTENANCE - AIR BRAKE - ALL BRAKES ADJ.'.
**30.05.1991** Service defect: 'UN - STORED'.
**99.99.9999** Service defect: 'SW - STORED'.

## 2.56 Locomotive classification starting with 'ZST'

**ZST 151**

Details: locomotive 'ZST 151 T' in AN 'Mainland Division'.

**Owner:** STEAMTOWN
**Length Over Headstocks:** 5.8m
**Tare Weight:** 15tonne
**Current Gauge:** Narrow
**Gauge Restrictions:** N
**Bogie Configuration:** 0-6-0
**Date Built:** 01.01.1940
**Operating System:** SRPS
**Intended Use:** MAINLINE
**Remarks:** DIESEL HYDRAULIC
**BSG Code:** LMSO

TIMS3

# Appendix


A Abbreviations and Glossary of Terms 841

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# ABBREVIATIONS AND GLOSSARY OF TERMS

## A

**AAR wheel arrangement** The AAR wheel arrangement system is a method of classifying locomotive wheel arrangements that was developed by the Association of American Railroads. It is similar to the European UIC classification, and it is widely used in North America to describe diesel and electric locomotives. It is not used for steam locomotives; instead, the Whyte notation is used. This system counts axles instead of wheels. Letters refer to powered axles, and numbers to unpowered axles. 'A' refers to one powered axle, 'B' to two powered axles in a row, 'C' to three powered axles in a row, and 'D' to four powered axles in a row. '1' refers to one idler axle, and '2' to two idler axles in a row. A dash ('-') separates trucks, or wheel assemblies. A plus sign ('+') refers to articulation.

Examples are: A1A-A1A, B-1, B-A1A, D-D, 2-D+D-2.

**Air Brake** This is the most common type of train brake. It was used on both the South Australian and Commonwealth Railways.

**Air Suspension** The bogie of a vehicle is fitted with rubber air cushions or bags. Compressed air is fed into the bags under the control of a valve to ensure the correct pressure is maintained.

**A.L.A.R.C** See Australian Locomotive and Railway Carriage Company.

**Alice, The** Inaugrated on 21st November 1983, The Alice was promoted as an all first class journey between Sydney and Alice Springs. No economy seating was provided on the train. Poor patronage lead to the service being terminated on 2 November 1987

**A.N.** See Australian National.

**A.N.R.C.** See Australian National Railway Commission.

**A.R.H.S. (SteamRanger)** Australian Railway Historical Society. In South Australia they operate train services under the name SteamRanger.

**A.R.T.C.** See Australian Rail Track Corporation.

**Articulated Vehicle** Two adjacent railway vehicles are mounted on one bogie. It has the benefit of reducing the number of bogies required for a train and hence the weight and maintenance requirements.

**A.S.R.** See Australia Southern Railway.

**AustralAsia Railway Corporation** The AustralAsia Railway Corporation is a statutory body established under the AustralAsia Railway Corporation Act 1996 and supported by South Australia through complementary legislation. The Corporation was established in 1997 by the Northern Territory and South Australian Governments to manage the awarding of a Build, Own, Operate and Transfer back (BOOT) concession and to enter into contractual arrangements with the successful consortium for the construction of the rail line from Alice Springs to Darwin.

**Australian Locomotive & Railway Carriage Company** (***Murraylander***) The Australian Loco & Railway Carriage Company was formed in 1999 by Steve Moritz, Bob Butrims and Bruce Roberts to take over the operational assests of the ***Murraylander***. A joint veture company was formed on a 50/50 basis by Aust Locomotive & Railway Carriage Co. and the Victorian Railway Co (trading as West Coast Railway) to operate the ***Murraylander*** and various other charters. They are also a rollingstock provider specialising in the hire of power vans, crew cars and passenger carriages for use on the standard gauge systems.

**Australian National (A.N.)** This was the operating business name of the 'Australian National Railway Commission', which was owned by the Commonwealth of Australia.

**Australian National Railway Commission (A.N.R.C.)** This railway organisation was owned by the Commonwealth of Australia. Its operations extended from Kalgoorlie to Alice Springs and to the boarders with Victoria and New South Wales, as well as all railways in the state of Tasmania. It

was formed in 1975 from the former Commonwealth, South Australian (non-suburban) and Tasmanian railways. It traded under the name ***Australian National***.

Australian National Railways took over the operation of the country passenger and goods services in South Australia as from 1st March 1978. In 1997 the freight business was sold to Australia Southern Railroad and the passeger business to Great Southern Railroad.

**Asia Pacific Transport Consortium** In 2000, the AustralAsia Rail Corporation awarded the contract to build and operate the Adelaide to Darwin railway line as a Build, Own, Operate and Transfer back project to the the Asia Pacific Transport Consortium, which consists of: Kellogg Brown & Root, John Holland Group, Carillion, Macmahon Holdings & Australian Railroad Group. The Asia Pacific Transport Consortium contracted FreightLink to implement the project and to operate the railway. The Asia Pacific Transport Consortium leases some assets on the Darwin - Alice Springs section from the AustralAsia Rail Corporation, and subleases of the Alice Springs - Tarcoola, South Australia railway from the Australian Government through the AustralAsia Rail Corporation.

**Australian Rail Track Corporation (A.R.T.C.)** The interstate rail corridors operated by ***Australian National*** were transferred to the Australian Rail Track Corporation as part of the 1997 sale. The Australian Rail Track Corporation, which is owned by the Commonwealth of Australia, commenced full operation on 1 July 1998.

Since formation it has negotiated various agreements gaining it access to the main rail corridors from Perth to Brisbane.

**Australia Southern Railroad (A.S.R.)** The freight business of ***Australian National*** was sold to the Australia Southern Railroad, a consortium consisting of Genesee and Wyoming Inc, and Clyde Engineering and Transfield, on 28 August 1997. They took over operation from 8 November 1997.

**Axle** The circular shaft connecting two wheels.

**Axlebox** The axlebox attaches the axle end to the bogie frame. The axle rotates within the axlebox allowing the wheel to turn.

**Axle Load** The weight that is applied by one axle, on a carriage or engine, to the track. Generally axle load refers to the maximum weight permitted on a single axle.

# B

**Ballast** The material most commonly used to form the road bed of a railway track. It usually consists of crushed rock.

**Bogie** A bogie is the name given to the structure that holds 4 or 6 wheels in pairs under one end a railway vehicles. It rotates on a pivot that allows it to turn and follow curves in the track.

**Broad Gauge** A broad gauge railway has track 5 foot 3 inches (1600mm) spacing between rails.

# C

**C.A.R.** See Central Australia Railway.

**Caboose** A term used in the United States to describe a brake van.

**Central Australia Railway (C.A.R.)** The Central Australia Railway extended from Port Augusta through Quorn and Marree to Alice Springs (originally called Stuart until the name changed on 26th January 1932). It was narrow gauge. The railway was originally built to Oodnadatta by the South Australian Railways and transferred to Commonwealth ownership on 1st January 1911. The South Australian Railways continued to operated the line until operation was taken over by the Commonwealth Railways from 1926.

The Ghan in Heavitree Gap, circa 1930 *(Chris Drymalik Collection)*

In 1926 construction began on the Oodnadatta to Alice Springs section of the line, a distance of approximately 292 miles. The line opened to rail traffic on 2nd August 1929, with the first passenger train arriving shortly after 2pm on 6 August. It had been scheduled to arrive at 9:30am.

The old Central Australia Railway was replaced by the Tarcoola to Alice Springs Railway in 1980.

The Ghan with original cars

**C.L.T.B.** See Commonwealth of Australia Land Transport Board.

**COMENG** Commonwealth Engineering Pty Ltd, Granville, N.S.W,

**Commonwealth of Australia Land Transport Board** (C.L.T.B.) The Commonwealth of Australia Land Transport Board was formed during World War II to control the movement of Transport in Australia. It was responsbile for providing various rollingstock items to the Commonwealth railways on loan to facilitate the war effort.

**Commonwealth Railways (C.R.)** The 'Commonwealth Railways' were owned the Commonwealth of Australia. They were set up initially to operate the railway from Port Augusta to Kalgoorlie (Trans-Australian Railway), but eventually took over the operation of the line to Alice Springs (Central Australia Railway) and Darwin (North Australia Railway) lines as well. They were amalgamated with the 'South Australian Railway' in 1975 to form 'Australian National'.

**C.R.** See Commonwealth Railways.

# D

**Driving Trailer** An unpowered passenger vehicle with a driver's cab, at one or both ends, used to remotely control a power car or locomotive.

**Dynamic Braking** A train braking system that use the traction motors of the locomotive as generators to retard the train speed.

# F

**FreightLink** FreightLink is a railway freight operator the Adelaide-Darwin railway. In May 2008 the Consortium of banks and infrastructure companies behind Freightlink decided to sell the railway and its operating company. During November 2008 the company was placed into voluntary administration.

# G

**Ghan, The** ***The Ghan*** train commenced operation for the Commonwealth Railwayswhen they took over the narrow gauge Central Australia Railway from the South Australian Railways in 1926. It ran between Port Augusta and Oodnadatta initially, being extended to Alice Springs in 1929.

When the new standard gauge Marree line opened in 1957 the journey was broken into two. A standard gauge run from Port Pirie to Marree, with the rest of the journey remaining on narrow gauge.

Following completion of the standard gauge Tarcoola to Alice Springs line in 1980, the train was rerouted becoming an all standard gauge journey from Port Pirie using only modern rollingstock in the regular consists. This modern train was initially called the ***New Ghan*** on all marketing material, but eventually the ***New*** was dropped. In the late 1980s as part of a major refurbishment of the rollingstock the train was re-marketted as ***The Legendary Ghan***.

The last narrow gauge north bound ***Ghan*** left Marree on 24th November 1980, returning south on 26th November 1980.

**Ghan Preservation Society, MacDonnell Siding, Alice Springs** The Ghan Preservation Society of based at MacDonnell Siding, just outside Alice Springs. They are in possession of the line from MacDonnell Siding to Ewaninga Siding, 23km south of Alice Springs. They operate some original 1960s ***Ghan*** rollingstock and have several NSU class diesels.

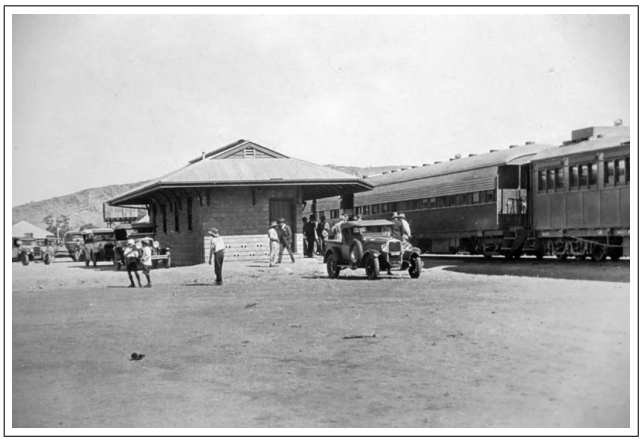
**G.S.R.** See Great Southern Railway.

**Great Southern Railway (G.S.R.)** The passenger business of ***Australian National*** was sold to the Great Southern consortium on 28th August 1997. They took over operation from 1st November 1997. A large number of the remaining passenger vehicles were sold as part of the passenger business. They later shortened their name to ***great Southern Rail***.

On their website in 2006 Great Southern Railway described their history as follows:

> In late 1997, Great Southern Railway was the successful bidder for the Passenger Rail business of Australian National. This made Great Southern Railway the first government owned transcontinental passenger business to be privatised in Australia. Great Southern Railway originally consisted of a consortium of Australian and International financiers, operators and service providers. These partners all contributed solid financial backing. In

C 67 Port Augusta, circa 1936



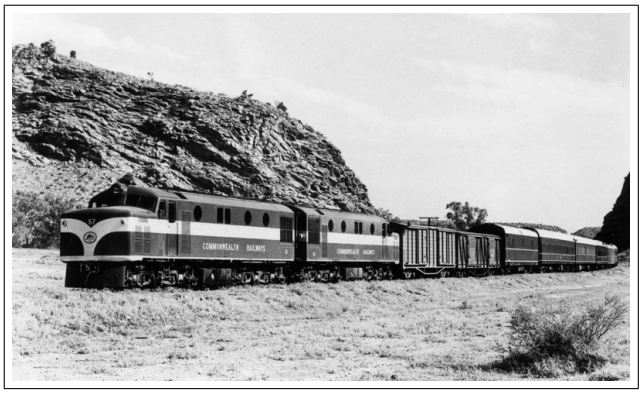
Ghan at Alice Springs, circa 1930 *(Chris Drymalik Collection)*

The Ghan outside Heavitree Gap, circa 1930 *(Chris Drymalik Collection)*

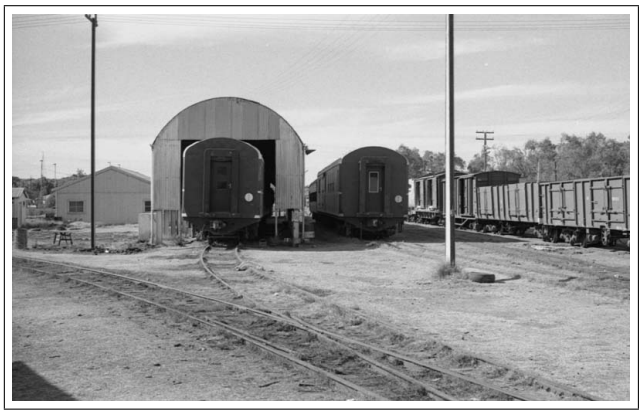
October 1999, Serco Asia Pacific bought out the other partners, placing the company in a strong position for future growth.

In March 2015 Serco sold GSR to private equity firm Allegro Funds.

In June 2019 the 'Great Southern Rail' brand was replaced with individual journey brands of 'The Ghan', 'Indian Pacific', 'The Overland' and 'Great Southern', with the business name being changed to 'Journey Beyond Rail Expeditions'



The narrow gauge Ghan at Alice Springs, circa 1960s



28.8.1976 - Alice Springs - general view of brake vans and wagons in yard *(Murray Billett)*

Indian Pacific car logo

21.03.2004,Keswick - Ghan Logo board *(Phil Leonard)*

2.04.2004, Keswick - Indian Pacific Logo Board *(Phil Leonard)*

# I

**Indian Pacific** The Indian Pacific had its inaugral run on 23rd February 1970 when the first through passenger service operated between Sydney and Perth. The standard gauge connection had actually been completed by 12th January 1970. The carriages were owned by the Commonwealth, but were considered Joint Stock for maintainance costings.

Passengers for Adelaide initially had to change trains at Port Pirie until the service was re-rerouted. The first Indian Pacific into Keswick Passenger terminal was on 17th August 1986.

**Intercapital Daylight** The Intercapital Daylight service ran daily between Melbourne and Sydney on the standard gauge line.

**Intermodal** Intermodal is the term used to describe freight traffic involving transfer of containers to and from road and rail vehicles. Sometimes referred to as container traffic.

**Iron Triangle Limited, The** The Iron Triangle Limited service ran by Australian National between Adelaide, Port Pirie, Port Augusta and Whyalla on standard gauge using Budd Railcars. The service began on 2nd April 1986 as a special run, with regular working from 21st April 1986. It finished 31st December 1990.

# J

**Journey Beyond Rail Expeditions** From June 2019, 'Journey Beyond Rail Expeditions' became the operators of 'The Ghan', 'Indian Pacific', 'The Overland' and 'Great Southern'. They had previously been called 'Great Southern Railway'.

# K

**Keswick Rail Terminal** The Keswick Rail Terminal was built by Australian National in the suburb of Keswick, Adelaide, South Australia as its main passenger terminal. It was officially opened on 15th June 1984.

## L

**Loading Gauge** Maximum dimensions to which a vehicle can be built or loaded without risk of striking a lineside structure.

**L.C.L.** Less than Container Load. LCL traffic was the term used to describe any traffic, such as parcels, that was less than a full container in size.

## M

**MainTrax N.T.** MainTrax N.T. are the firm who operate the ***Old Ghan*** from MacDonnell Siding to Ewainga under contract from The Ghan Preservation Society.

**Match Wagon** A vehicle equipped with different types of couplers at each end and placed between vechicles where the couplers are of different types. The most common use of this type of vehicle was with mobile crane wagons.

**Motor car** A passenger vehicle in a multiple unit train which is provided with traction power equipment.

**Motorrail** Motorail is a rail transport service where passengers can take their automobile along with them on their journey. Passengers are carried in normal passenger cars or in sleeping cars on longer journeys, while the cars are loaded into car carriers, or flatcars.

**Mile End Railway Museum** The Mile End Railway Museum was founded in 1963 and moved to Port Adelaide in 1988 to become the Port Dock Station Railway Museum.

**Murraylander** See Australian Loco & Railway Carriage Company.

## N

**North Australia Railway (N.A.R.)** - Palmerston to Pine Creek Railway The North Australia Railway extended from Darwin to Birdum. It was built as a narrow gauge railway. Originally it had been built as the Palmerston division of the South Australian Railways, but was transferred to Commonwealth Government control in 1911. It extended to Emungalan on the Katherine River in May 1917 and eventually to Birdum whilst Commonwealth Railway control.

Initially, after handover to the Commonwealth Government on 1st January 1911, the line was run by the Northern Territory Administrator until 30th June 1918 when it was handed to the Commonwealth Railways. Records of the period suggest that the Commonwealth Railways had a big influence on the line prior to the official transfer of control as they provided the Administrator with assitance in the purchase of rollingstock and other items. The last train ran on this line on 30th June 1976.

**N.A.R.** See North Australia Railway.

**Narrow Gauge** A narrow Gauge railway has track with 3 foot 6 inch (1067mm) spacing between rails.

**National Rail Corporation (N.R.)** The National Rail Corporation took over the interstate freight business of Australian National. It was jointly owned by the Commonwealth, Victorian and New South Wales Governments.

**National Railway Museum Port Adelaide** The National Railway Museum Port Adelaide was founded in 1963 as the Mile End Railway Museum. They move to the Port Adelaide site in 1988 and were known as Port Dock Station Railway Museum. On 21st October 2001 it was renamed the ***National Railway Museum Port Adelaide***

**N.R.** See National Rail Corporation.

**New South Wales Government Railways (N.S.W.G.R.)** The New South Wales Government Railways operated all the railways in the state of New South Wales. At various time they were reorganised and had minor changes made to their name. They have opertaed under names such as 'New South Wales Railways', 'Freight Corp', and the 'New South Wales Public Transport Commission'.

**New South Wales Public Transport Commission (N.S.W.P.T.C.)** See New South Wales Government Railways.

**Northern Rivers Railway.** The Northern Rivers Railway operate on the line between Murwillumbah and Casino in New South Wales. Commencing in 1999, they operated a passenger service called the ***Ritz Rail*** train between Murwillumbah and Byron Bay. Operated Under the name 'Ritz Rail'

## O

**Overland, The** The original service called ***The Overland*** was the nightly train that ran between Adelaide and Melbourne. It was jointly owned by the Victorian and South Australian railways, until 1976 when Australian National took over the South Australian part of the operation. Australian National became the single operator of ***The Overland*** in 1994.

This service was taken over by Great Southern Railways following the sale of Australian National. In 1999 the remaining in service cars were repainted in a new colour scheme and logo graphics.

Darwin station with train

Adeliade River Troop Train October 1942

Overland logo on side of Tawarri 9.2.1999 *(Chris Drymalik)*

A completely new look for ***the Overland*** was launched in May 2007. This included a new colour scheme, refurbished car and the removal of all sleeping cars as it was now an exclusively daylight only service several times per week.

What is beleived to be the last service of 'The Overland' arrived in Adelaide on the 24 March 2020.

## P

**Pichi Richi Railway (P.R.R.)** Pichi Richi Railway Preservation Society is based at Quorn, South Australia. They operate narrow gauge trains over the three lines that radiate out from the Quorn station.

**Port Dock Station Railway Museum** The Port Dock Station Railway Museum was founded in 1963 as the Mile End Railway Museum. They move to the Port Adelaide site in 1988.

On 21st October 2001 it was renamed the ***National Railway Museum Port Adelaide***

## Q

**QGR** Queensland Government Railways - See Queensland Railways.

**Q.R.** See Queensland Railways.

**Queensland Railways (Q.R.)** The Queensland Railways were operated by the State of Queensland.

# R

**Railcar** Self-powered vehicle capable of operating as a single unit and often passenger carrying.

**References Abbreviations** At various points references are sited by placing a code inside of square brakets '[]'. The various codes can be on the References and Bibliography page.

# S

**S.A.R.** See South Australian Railways.

**Semi Permanent Coupling** Coupling between vehicles provided for normally fixed formation consists. This form of coupling is usually only disconnected in a workshop.

**Shunt** To marshal vehicles in a given order to form a train consist.

**Spirit of Progress** Victorian Railways train that ran between Melbourne and Albury to connect with the New South Wales train for Sydney. It commenced operation in November 1937. After the completion of the standard gauge line from Albury to Melbourne, in 1962, it ran nightly between Melbourne and Sydney.

In the 1986, the train was combined with ***Southern Aurora*** to become the north bound ***Sydney Express*** and the southbound ***Melbourne Express***. The service was withdrawn in the 1990s.

**Standard Gauge** A standard gauge railway has track with 4 foot $8\frac{1}{2}$ inches (1435mm) between rails.

**SteamRanger** See Australian Railway Historical Society.

**South Australian Railways.** The railways in the state of South Australia were operated by the state government. In 1975 the 'South Australian Railways' were sold the Commonwealth of Australia, who combined them with the Commonwealth Railways to form Australian National.

**SAR&CR Joint Stock** South Australian and Commonwealth Railways Joint Stock operated on the East-West service between Port Augusta and Terowie via Quorn between 1917 and 1936. All the vehicles were owned by the South Australian Railways with only the costs being shared. Following cessation of this service, many of the cars were rebuilt.

**Southern Aurora** The Southern Aurora operated nightly between Sydney and Melbourne in both directions and commenced running on 16th April 1962 shortly after the new standard gauge connection opened between Melbourne and Sydney. It was jointly owned by the New South Wales and Victorian railways and used cars similar in design to stainless steel cars built by Comeng for the Commonwealth Railways.

In 1986 the train was combined with ***Spirit of Progress*** to become the north bound ***Sydney Express***; and the southbound ***Melbourne Express***. The service was withdrawn in November 1993 when it was replaced by an XPT railcar service.

**Southern Spirit** The Southern Spirit is a special passenger train operated by Great Southern Railway. Each journey incorporates a series of wayside stops and off train excursions to various tourist destinations.

It first run was called ***The Grand Tour*** and ran from Uluru (Ayers Rock) to Brisbane, via Alice Springs, Adelaide, Melbourne and Sydney over 14 days from 9 January 2010 to 22 January 2010. The train was hauled by NR84 and NR85 (at separate times) and included carriages FAM2389, HGM296, ER909, BRG974, BRG168, BRG175, AFC307, DF934, BRG972, BRG171, ARM990, HM957 and HGM903.

**South Spur Rail Services** South Spur Rail Services are a Western Australia based private operator who have a number of contracts for hauling ballast, rail and sleeper trains. They operated a Restaurant Train service called ***Spirit of the West***, using Australian Railway Historical Society coaches and a specially painted K class diesel locomotive, as an offshoot company called the Midland Railway Company.

**Spirit of the West** see South Spur Rail Services.

**State Rail Authority of New South Wales (SRA)** The State Rail Authority was the government authority responsible for the operation and maintenance of railways in the Australian state of New South Wales between 1980 and 2003. The State Rail Authority (SRA) was established in 1980 after the separation of the Public Transport Commission into the SRA, responsible for trains, and the Urban Transport Authority (UTA), responsible for buses and ferries.

**State Transport Authority of South Australia.** The State Transport Authority of South Australia was formed as a result of the sale of the South Australian Railways to the Commonwealth in 1975. It took over the operation of the suburban rail system in Adelaide. It changed its name to Trans-Adelaide in July 1994.

It is a Government organisation answerable to the South Australian Minister of Transport.

**Steamtown Peterbourough Railway Preservation Society Inc.** ***Steamtown*** was based at Peterborough in the mid-north of South Australia. The society was formed in 1977 and ran its first public train in 1981. ***Steamtown*** had a number of working locomotives

(both setam and diesel) obtained from Western Australia and several former Commonwealth Railways diesel locomotives. Most of the passenger rollingstock they operated was originally used on the Commonwealth Railways Trans-Australian Railway.

The train operated on the narrow gauge line between Peterborough and Eurelia. In October 2003 the society was disbanded and all assets passed to the local council who intended using the core part of the collection as a static museum based in the Peterbourgh Roundhouse precinct.

**Sydney/Melbourne Express** The Sydney/Melbourne Express was an intercapital passenger train service that operated between the Australian cities of Melbourne and Sydney between 1986 and 1993. It was operated jointly by V/Line and the State Rail Authority of New South Wales the name depended on the direction of travel.

The Sydney/Melbourne Express was formed from the merger of the Spirit of Progress and Southern Aurora to cut operating costs of the intercapital rail service with the first train operating on September 2, 1986. The last Melbourne Express ran on the night of Saturday November 20, 1993 ex Sydney, with the last Sydney Express running ex Melbourne on Sunday 21 November, 1993.

# T

**Tea and Sugar** The ***Tea and Sugar*** train was a service that operated between Port Augusta, South Australia and Parkeston, Western Australia. The train provided the basic needs of the railway staff living in the remote regions through which the train operated. It commenced operation in 1915 during construction of the line and eventually endup with a number of specialised vehicles, including at butcher car, retail store car, community service car, and pay car.

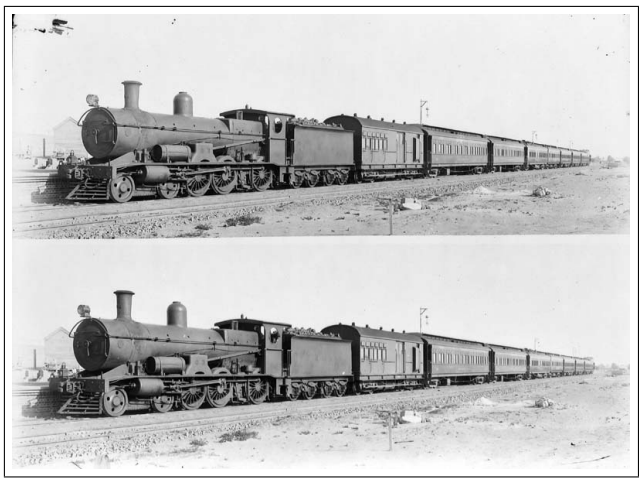
The last west bound ***Tea and Sugar*** train departed Port Augusta on Wednesday 28th August 1996, whilst the last east bound departed Parkeston on Friday 30th August 1996. The service was withdrawn because of the decline in the number of rail workers living living in the remote regions the train serviced.

**Track Gauge** The distance between the inner faces of the rail of a railway track. In Australia the main gauges are broad, narrow and standard.

**Trailer Car** A passenger vehicle in a multiple unit train which has no traction power equipment.

**Trans-Adelaide** See State Transport Authority of South Australia.

**Trans-Australian Passenger Train** The Trans-Australian Passenger train ran between Port Augusta and Kalgoorlie. It began in 1917 and was eventually cancelled in 1991 following poor patronage and a severe cut back in the frequency of the service.



Trans-Australian, circa 1917 *(Chris Drymalik Collection)*

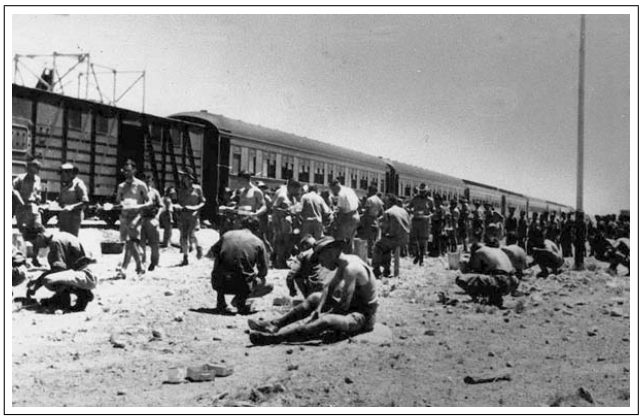
Initially it was all sleeping class with only irregular way side situp passenger accomodation being provided. In the 1960s regular situp was provided, but this was eventually withdrawn. Situp was again introduced in 1981 when it was added to the Trans-Australian and Indian Pacific services.

Trans-Australian with GM 1 and wooden cars, circa 1951

In 1983 the Trans-Australian was reduced from 4 to 3 services and the economy class sleeping cars were replaced by additional first class cars. Later the same year another Trans-Australian service was removed so that The Alice train could be inaugrated. The Trans-Australian was cut to a single weekly service on 9th February 1991, leaving Adelaide each Wednesday, but this was short lived as this service was cancelled later that year.

**Trans-Australian Railway (T.A.R.)** This railway extendes from Port Pirie to Kalgoorlie. The first sod for the Port Augusta to Kalgoorlie section was turned on 14 September 1912 with the line being completed on 17th October 1917. An extention to Port Pirie was opened on 23 July 1937 when the

First Express at 408 miles, 1917



A troop train on Port Augusta Wharf

South Australian Railways extended the line from Red Hill. It is standard gauge.

Ghan logo on car side

**Tarcoola to Alice Springs Railway (T.A.S.)** Tarcoola to Alice Springs Railway. Work commenced 12th April 1975 on a replacement for the narrow gauge track from Marree to Alice Springs. The new route, via Tarcoola, was opened in 1980. It is standard gauge.

**TIMS** Australian Nationals Traffic Information Management System (TIMS), was closely linked to a system for tracking wagons know as the 'Wagon Maintenance System (WMS)'.

**Troop Train** During World War II special trains were run that carried only military troops. These were generically referred to as 'Troop Trains'.

Due to a shortage on rollingstock on the North Australia Railway and Trans-Australian Railway a number of cattle vans were converted to carry troops as part of this operation.

# U

**UIC classification of locomotive axle arrangements** The UIC classification of locomotive axle arrangements is a system for describing the wheel arrangement of locomotives, multiple units and trams. It is provided by the International Union of Railways. The United States use a simplified form (AAR wheel arrangement) for modern locomotives. It is a more versatile system than Whyte notation for classifying steam locomotives by wheel arrangement.

The UIC notation counts pairs of wheels (called "wheelsets" or informally "axles").

**Upper-case letters** Designate a number of consecutive driving axles, starting at A for a single axle. C thus indicates three consecutive pairs of driving wheels.

**Numbers** Designate consecutive non-driving axles, starting with 1 for a single axle.

**Lower-case 'o'** On many electric and diesel-electric locomotives, axles are individually driven by electric traction motors - this is indicated by suffixing the driving wheel letter with a lower-case 'o'.

**Prime sign '** Indicates that the axles are mounted on a bogie.

**Plus sign +** Indicates that the locomotive or multiple unit consists of permanently coupled and mechanically separated individual vehicles.

**Brackets** Can be used to group letters and numbers describing the same bogie. For example, (A1A) indicates a three axle bogie with the outer two axles driven. When brackets are used a prime is not needed to indicate a bogie. Mallet locomotives can be indicated by bracketing the front power unit - for example, the Union Pacific Big Boy - denoted 4-8-8-4 in Whyte notation, is designated (2' D)D2' in UIC notation.

Garratt-type locomotives are indicated by bracketing or placing plus signs between all individual units.

**Other Suffixes** The designation can also have additional suffixes, denoting other features of the locomotive:

**h** Superheated Steam

**n** Saturated Steam

**v:** Compound

**Turb** Turbine

**number** number of cylinders

**t** Tank locomotive

**G** Freight train purpose . Also used to indicate shunting locomotives

**P:** Passenger train purpose

**S** Fast train purpose

# V

**VicRail** See Victorian Railways.

**Victorian Railways (V.R.) – VicRail, V/Line** The railways in the state of Victoria were called the 'Victorian Railways'. They were owned by the state of Victoria, Australia and were eventually split into a number of operational units which traded under various names such as VicRail, 'V/LINE' and 'The Met'.

**Vinelander** The Vinelander was an overnight passenger train operated by the Victorian Railways between Melbourne and Mildura, Victoria, Australia. The Vinelander first ran on 9 August 1972 and offered sleeping, sitting and motorail facilities. It ceased operation on 12 September 1993.

**V/Line** See Victorian Railways.

**V.R.** See Victorian Railways.

# W

**W.A.G.R.** See Western Australia Government Railways.

**Wegmann** 'Waggonfabrik Wegmann' of Kassel germany built a number of carriages during the 1950s for the Trans-Australian Service.

**Western Australia Government Railways (W.A.G.R.)** The Western Australia Government Railways were owned by the state of Western Australia. They operated services on both narrow and standard gauge.

**Westwaggon Bogies** Many Commonwealth Railways cars are were fitted with 'Westwaggon' bogies. These had been purchased from the 'Wegmann' Company in 1951 at a cost of £174,062 for 64 bogies. The purpose of these bogies was to improve the riding quality of existing wooden cars and bring them up to the standard of the new all-steel rollingstock purchased from the 'Wegmann' Company the same year. Despite buying 64 bogies, a shortage developed as some were used under additional steel passenger cars purchased in the late 1950s. As speeds increased the bogies were unable to cope with the poor track condition. This lead to new bogies being purchased and the Westwaggon bogies becoming surplus. Having been made to be readily gauge convertible (Standard to Narrow), and because of their good riding quality at low speeds, were possible all wooden cars used on the narrow gauge Ghan were fitted with these bogies. By the time most wooden cars were being withdrawn in 1980 many of the cars had been fitted.

**WMS** Australian Nationals Wagon Monitoring System (WMS), it was closely linked to a system for train movements know as the 'Traffic Information Management System (TIMS)'.

**Whyte notation for locomotive axle arrangements** Whyte notation is a way of classifying steam locomotives by wheel arrangement. The Whyte system counts the number of leading wheels, then the number of driving wheels, and finally the number of trailing wheels, groups of numbers being separated by dashes. Thus, a locomotive with two leading axles (and thus four wheels) in front, then three driving axles (six wheels) and followed by one trailing axle (two wheels) is classified as a 4-6-2. Articulated locomotives such as Garratts, have a '+' between the arrangements of each engine (e.g. 4-6-2+2-6-4). Simpler articulated types where there are no unpowered axles between powered axles, have extra groups of numbers in the middle. Thus a Big Boy is a 4-8-8-4; there are two leading axles, one group of four driving axles, another group of four driving axles, and then two trailing axles.

Various suffixes are sometimes used, but they are not universal. Some of the more common ones are:

**T** indicates a tank locomotive. In British practice, this is sometimes extended to indicate the type of tank locomotive: T means side tank, PT pannier tank, ST saddle tank, WT well tank. T+T means a tank locomotive that has a tender for additional coal or water capacity.

**R** In Europe suffix R means rack (0-6-0RT) or it could mean reversible (0-6-0TR).

**F** indicates a fireless locomotive (0-4-0F). Note that this locomotive has no tender.

**ca** compressed air (i.e., running on compressed air from a tank instead of steam).

**ng** narrow-gauge locomotives (i.e., less than 56.5 in / 1435 mm)

In Britain, a small diesel or petrol locomotive is classified in the same way as steam locomotives,

e.g. 0-4-0, 0-6-0, followed by D for diesel, P petrol, and another letter describing the transmission: E for electric, H hydraulic, M mechanical. Thus 0-6-0DE denotes a six-wheel diesel locomotive with electric transmission.

Where the axles are coupled by chains or shafts (rather than side-rods), or are individually driven, the terms 4w, 6w or 8w are generally used. Thus 4wPE indicates a four-wheel petrol locomotive with electric transmission. For large diesel locomotives the standard UIC classification is used.

# REFERENCES AND BIBLIOGRAPHY

**Some of the sources used to verify the information contained in these pages are:**

**ah** Correspondence with Alan Hegler.

**ARHS-bul** Australian Railway Historical Society; ***Bulletin***; various editions

**ausrollingstock** Yahoo group 'ausrollingstock' at groups.yahoo.com/group/ausrollingstock/.

- Australian Railway Historical Society (Victorian Division); ***Newsrail***; monthly periodical; various editions.

- Australian Railway Historical Society (South Australian Division); ***Recorder***; monthly periodical.

- Baggage, Jack and Barrington, Rodney; ***The History of Pichi Richi Railway***; Pichi Richi Railway Preservation Society Inc; 1984.

- Banger, Chris and Medlin, Peter; ***Ninety years of The E Cars - Part 2***; Newsrail; September 1996.

- Beckhaus, John; ***Commonwealth Railways Passenger Cars***; Modelling the Railways of SA Convention.

- Beckhaus, John; ***CR Passenger fleet***; Unpublished Draft.

- Beckhaus, John; ***SAR Broad Gauge Passenger fleet***; Unpublished Draft.

- Beckhaus, John; ***SAR Narrow Gauge Passenger fleet***; Unpublished Draft.

- Beckhaus, John; ***SAR Railcar fleet***; Unpublished Draft.

**blc** Details extracted from Barry Lewis Collection records at National Railway Museum.

- Mack, David; ***Little Coastal Railways of the Adelaide plains***, Hyde Park Press; 1986.

**cc** Correspondence with Chris Carpenter.

**CP_*mm.yyyy*** Catchpoint Magazine edition mm.yyyy (month.year). Catchpoint is produced by the Port Dock Station Railway Museum.

**cr_*nnnn*** Commonwealth Railways Central Office File ***nnnn***. - most of these are stored at the National Archives of Australia series B300.

**cr_plan** Commonwealth Railways Rollingstock Plan.

**db** Correspondence with Dylan Badenoch.

**dc** Correspondence with Doug Colquhoun.

**dc** Correspondence with Doug Johnson.

**dp** Parsons D.B; ***3'6" Gauge Passenger Rolling Stock of South Australian Railways***; Australian Railway Historical Society Bulletin; 1958.

**sf** Correspondence with David Stosser.

- Fitzgerald, Anthony; ***Australian National's GM Class***; Australian Model Railway Magazine, April 1997.

**facebook-sare** Facebooks group - South Australian Railway Enthusiasts.

**GA** General Appendix.

**gh** Correspondence with Geoff Hann. .

**jb** Correspondence with John Beckhaus.

**jbo** Correspondence with John Bollans.

**jg** Correspondence with John Green.

**jh_nnl** Jim Harvey *The Never-Never Line, The story of the North Australia Railway*.

**gp** Correspondence with Gerald Petrie.

**GSR** Great Southern Railway Literature and Press Releases.

**hw** Correspondence with Hugh Williams.

**kb** Correspondence with Kym Bird, also included reference to historic articles

- The 300-400 Class Railcars and 829-860 Class Trailer Cars of the South Australian Railways,Australian Railway Historical Society Bulletin; p219-238, October 1985, Vol.26 No.576; p243-261, November 1985, Vol.26 No.577; p279-283 December 1985, Vol.26 No.578.

- The Fageol Railcars of the S.A.R,Australian Railway Historical Society Bulletin; p219-238, October 1985, Vol.37 No.588.
- Brill Railcars of the South Australian Railways,Australian Railway Historical Society Bulletin; p213-236, October 1991, Vol.32 No.528; p237-260, November 1991, Vol.32 No.529; p272-282 December 1991, Vol.32 No.530; p1-8, January 1992, Vol.33 No.531.

**md** Michael Dix correspondence.

**mr** Correspondence with Matthew Reid of Edmonton, Alberta, Canada.

**MN** Monthly Notice - The Commonwealth Railways issues published notices on a monthly basis to staff.

**MERM** Mile End Railway Museum

**NAA** National Archives of Australia - normally will be followed by a series reference number.

**newsrail** Newsrail Magazine edition mm.yyyy (month.year).

**NRM** National Railway Museum correspondence.

**pf** Correspondence with Paul Quinn.

**ph** Correspondence with Peter Hinksman.

**pk** Correspondence with Peter Knife, or referenced in his book 'Peninsula Pioneer'

**pl** Correspondence with Phil Leonard.

**pm** Correspondence with Peter Medlin.

**pmi** Correspondence with Peter Michalak.

**pq** Correspondence with Paul Quinn.

**pr** Correspondence with Philippa Rogers.

**PTT** Public Time Table.

**railsa** RailSA Australia Forums - formerly at 'www.railsa.org'

**rpf** Railpage Australia Forums at www.railpage.com.au.

**RRC** South Australian, Commonwealth and Australian National Railways ***Rollingstock Record Cards***. These were large cardboard cards, one per vehicle, maintained by the workshops that showed all major alterations and repairs done to that vehicle. They are generally a lot more accurate than the computerised 'TIMS' records. See the 'TIMS' reference for more details.

**SAR** South Australian Railways record or docket reference.

- South Australian Railways; ***Annual report to Parliament***; South Australian Parliamentary Paper No.47.
- South Australian Railways; ***Rollingstock Record Cards***; Port Dock Museum Collection.
- South Australian Railways Institute; ***South Australian Railways Institute Magazine***; periodical; various editions.

**sf** Correspondence with Steve Ford.

**sh** Correspondence with Stuart Hicks.

**sm** Correspondence with Steven Moritz.

**SN** Special Notice.

**st** Correspondence with Simon Thompson.

- Smith, Roderick ***Named Carriages***; Rail news Victoria; March 1998

**th** Correspondence with Trevor Horman.

**TIMS/WMS** Information extracted from ***Australian Nationals Computerised Traffic Information Management System (TIMS)*** The records that have been extracted from TIMS, and the Computerised Wagon Monitoring System (WMS), are not always very accurate. Frequently significant alterations did not make it into the system. An example is the upgrade of 'Ghan' cars. These cars only show the date of the work order for modifications being issued in 1988 with very little information about when the actual work took place. For some cars this was not until 18 months later. Port Augusta still maintained paper based manual rollingstock record cards of changes long after they supposedly moved over to 'TIMS', so generally 'TIMS' shows the date the work was approved/proposed rather than when it was actually carried out.

**Vline-news** State Transport Authority of Victoria; ***V/LINE News***, journal.

**wh** Correspondence with Wayne Hoskin.

**WN** Weekly Notice.

**WTT** Working Time Table.

### Commonwealth Railways Files - Central Office

Listed below are the title of the Commonwealth Railways Central Office files consulted to create this information.

These files are stored at Australian Archives Adealide Office - series B300.

| File No | File Active Date | File Title |
|---|---|---|
| 47pt1-5 | 1912-1926 | 'Q' class locomotives. |
| 101pt1-2 | 1911-28 | Diesel locomotives. |
| 107Pt1-4 | 1912-15 | 'G' class locomotives. |
| 307 | 1911-27 | Cranes general. |
| 486 | 1912-1920 | Shovel, 'Marion' steam, Port Augusta. |
| 576 | | Rollingstock - locomotives general |
| 631pt1-2 | 1913-16 | 8 No. 'G' class locomotives - Bladwin Co. |
| 1033pt1-2 | 1913-50 | Baldwin locomotives. |
| 1513 | 1914-23 | Temporary passenger cars |
| 1729 | 1916 | Rollingstock for through express (street railway carriages) |
| 2248pt1 | 1914-29 | Particulars of rollingstock (general) TAR |
| 2425 | 1923-82 | Vans - travelling stores - two for retail business |
| 3581 | | Design of proposed Express Passenger Engines. |
| 4089pt2 | 1920-51 | Dining cars for through express |
| 5373pt1-4 | 1918-62 | Special service car |
| 5389pt1-2 | 1922-41 | Lounge cars TAR |
| 5409 | | Travelling Butchers vans - TAR |
| 5472 | 1918-54 | 3 'YB' vans, brakevans |
| 5500pt2-4 | 1917-54 | Dining car, sleeping car etc TAR Proposed with a view to improvement |
| 5638 | | Question of providing extra Dining car (can't find 17.1.89) |
| 5740 | 1916-18 | History of B44 no N.G. N9. |
| 5909 | 1919-42 | "HR" vans |
| 6205pt1 | 1913-30 | Classification of rollingstock |
| 6251/4 | 1935-36 | Theft of gold from train between Quorn and Alice Springs May 1935 |
| 6251/5 | 6.1935 | Attempted robbery of Mail TAR |
| 6312pt10 | 1956-60 | Rollingstock for through express |
| 6312pt2 | 1916-23 | Rollingstock for through express |
| 6312pt3 | 1924-28 | Rollingstock for through express |
| 6312pt4 | 1928-29 | Rollingstock for through express |
| 6312pt8 | 1946-51 | Rollingstock for through express |
| 6312pt9 | 1951-56 | Rollingstock for through express |
| 6423pt1 | 1917-33 | Special car No.2 |
| 6423pt2 | 1941-65 | Special car No.2 |
| 6431pt1 | 1913-24 | Photographs of rollingstock |
| 6431pt2 | 1927-65 | Photographs of rollingstock |
| 6440pt1 | 1914-25 | Rollingstock capital value of stock, Pt Augusta-Oodnadatta railway |
| 6440pt3 | 1960-67 | Rollingstock CAR |
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