

S/Meyl – Adhoc Worklist Condition Based Unique Rolling Stock				
File Ref	Standard SOW template for D34 D34 Class Locomotive - July 2024STOCK.			
Creation Date	2013-1-15	Author	Richard Van Wyk	
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Date of request:		Contractor:	
Locomotive No.:	34102	A. Date:	17/08/24
Details of request:	Condition base maintenance & repairs	Depot:	Braamfontein
Motivation repairs:	Un/Schedule maintenance & repairs	TARRA:	
Class:	Class D34-GM9E	Type (AC/DC):	

Item Description	Overhaul/ Refurbish	Replace/Renew	Repair (in situ)	No Action	Comments
Front End (No. 1)					
Hooters		✓		✓	hooter horn painted to glass to clean
Headlights				✓	
Red light				✓	
Wipers		✓			replace
Sandbox refill lid				✓	
Jumper cable sockets (ports)				✓	
Automatic brake pipe with angle cocks			✓	✓	
Vacuum brake pipes			✓	✓	
Automatic coupler release handle				✓	NO A side dummy to repair
Automatic couplers				✓	
Cowcatcher and buffer beam				✓	
Brake cylinder equalizing pipe (thin)				✓	
Main air pressure equalizing pipe (medium)				✓	
Rear End (No 2)					
Headlights			✓		Glass missing & ribbed out.
Red light			✓	✓	
Sandbox refill lid				✓	
Jumper cable sockets (ports)				✓	
Brake pipe angle cocks				✓	
Automatic brake pipe with angle cocks				✓	
Vacuum brake pipes			✓	✓	
Automatic coupler release handle			✓	✓	Both A & B side to be repaired
Automatic couplers				✓	
Cowcatcher and buffer beam				✓	
Brake cylinder equalizing pipe (thin)				✓	
Main air pressure equalizing pipe (medium)				✓	
Locomotive "A & B Side"					
Compartment access doors				✓	
Air filter grids		✓		✓	24R
Radiator compartment air metal grids and cooling louvers				✓	cleaning
Batteries	✓				to be changed
Handrails		✓			missing
Boarding Steps				✓	
Step lights				✓	
Automatic main air pipe end cock				✓	to be tested
Brake cylinder pipe end cock				✓	

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Item Description	Overhaul/Refurbish	Replace/Renew	Repair (in situ)	No action	Comments
Driving Compartment... continue					
HS- 4 Control valve				✓	
Quick release push button				✓	
Sanding switch pedals				✓	
Switch panel (above ECC doors)				✓	To be tested
Circuit breaker panel				✓	
Electrical Control Compartment					
- Battery switch				✓	
- CK1 and CK2 Starting contactors				✓	
- C1 and C2 fan contactors				✓	
- Voltage regulator				✓	
- Fuel pump test switch				✓	
- Compressor synchronizing cut-off switch				✓	
- Vigilance box				✓	
- 6 Power contactors				✓	
- Reverser mechanism				✓	
Cab windows				✓	
Cab doors				✓	
Cab wipers				✓	
Hooter cord		✓			replace
Cab lights			✓		replace
Safety control warning and light				✓	replace
Sun visor				✓	
Fire extinguisher				✓	
Cab Heater				✓	
Wheel slip warning buzzer				✓	To be tested
Window wiper controls				✓	
Driver & Assistant seats	✓				refurbish
Equipment Blower Compartment					
Equipment blower	✓				
Access doors				✓	All compartment to be deep clean
Plastic inertial filters		✓			
Alternator Compartment					
Auxiliary generator	✓				
Exciter generator	✓				deep clean
Alternator	✓				
Main generator	✓				
Engine Compartment					
Woodward governor				✓	
Woodward governor sight glass				✓	deep clean
Engine over speed governor and reset				✓	
Lubrication oil pump				✓	
Water pump				✓	
Dirt exhauster				✓	

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prasa
PASSENGER RAIL AGENCY
OF SOUTH AFRICA

Item Description	Overhaul/ Refurbish	Replace/Renew	Repair (in situ)	No action	Comments
Engine Compartment... continue					
Lexan sight glass (cooling water level indicator)	✓			✓	clean
Fuel pump, coupling and electric motor	✓				overhaul
Primary & Secondary filters	✓	✓			replace
Air intake manifold	✓				A & B side air intake
Water intake manifold	✓				check leakages
Lube oil filling plug				✓	
Water temperature gauge	✓			✓	overhaul
Low lube oil pressure trip (plunger)				✓	check operation
Low water pressure trip (plunger)				✓	check operation
Engine inspection covers				✓	
Load control rheostat				✓	
Power piston				✓	
Crankcase overpressure device				✓	check operation
Air filtration compartment				✓	
Turbocharger				✓	clean
Radiator Compartment:					
Radiator and Louvers	✓				Eddy current & brush
Two speed fans				✓	check operation
Compressor exhaustor	✓				overhaul
Compressor exhaustor oil level gauge	✓				overhaul
Lube oil cooler	✓				overhaul
Metal grids & cooling louvers				✓	
Fire extinguisher				✓	
WT1 Thermostat	✓				check for operation
WTS Thermostat	✓				check for operation
Jumper cable					
Underframe Equipment:					
Bogies					
- Rubber sandwiches and steel stoppers	✓			✓	overhaul
- Snubbers				✓	check rubber
- Horn stay				✓	check for bolts
- Coil springs (8 double)				✓	check weight
- Brake cylinders	✓				overhaul
- Manual slack adjusters	✓				overhaul
- Brake blocks				✓	
- Snubbers				✓	Megger T/m &
- Traction Motor No.1	✓				clean
- Wheel Set No.1				✓	slidger
- Traction Motor No.2	✓				Megger T/m
- Wheel Set No.2				✓	slidger
- Traction Motor No.3	✓				clean & megger
- Wheel Set No.3				✓	check the slidger
- Traction Motor No.4	✓				
- Wheel Set No.4				✓	rather
- Traction Motor No.5	✓				Megger T/m

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Item Description	Overhaul/ Refurbish	Replace/Renew	Repair (in situ)	No action	Comments
- Wheel Set No.5				✓	✓
- Traction Motor No.6				✓	✓
- Wheel Set No.6				✓	✓
Main air reservoir (x2)				✓	✓
Fuel tank, fuel cap & level sight glass				✓	✓
Fuel trip and reset mechanism				✓	✓
Water under pressure refill nozzle				✓	✓
Radiator compartment liquid waste receiver tank				✓	✓
Engine Compartment liquid waste receiver tank				✓	✓
Traction motor air duct				✓	✓
No.1 & 2 bogie brake cylinder cut-out cocks				✓	✓
Underframe Equipment:					
Main air reservoir equalizing pipe end cocks				✓	✓
No.8 Vent valve cut-out cock				✓	✓
Brake pipe angle cocks				✓	✓

Additional Instructions & Comments:

Depot management to be informed immediately if any additional repairs is identified to jointly verify and to approve. All components (defective/or still usable) removed during repairs must be available to the depot for collection.

During ~~work~~ ~~overhaul~~ ~~overhaul~~ all pipes to be clean
 All electrical compartment to be deep clean
 Check all bolts secured and tight
 Summer box no 2 end to be replaced & no 2 end to be secured
 All T/m to be clean full of oil.
 Jump cable spare
 Drain pipe missing at check for blockages
 Running board to clean
 Crank shaft seal to be replaced
 Antenna broken off

Verification/Approval of Scope of Work

Name & Surname (Supervisor) - Checked	MOSHE MOIKETSI	CHIEF ELECTRICAL Fitter	19/08/24
Name & Surname (Eng. Technician -Verified)	N/A		
Name & Surname (Manager Approval)	MARCUS SITHOLE		19/08/2024
Acceptance of Scope of Work			
Supplier Name			
Supplier Representative			

Add remarks

- Check all dressers for leaks
- Intercooler gasket to be checked ~~both~~ ^{side} ~~at R side~~
or right bank
- All filters to be replaced.
- Clean all access doors
- Electrical compartment door hinges ^{not} ~~not~~ working