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	Schedule of 6 monthly Diesel Locomotive Inspection and Maintenance			

Document Status

Version	Date	Revision	Prepared	Reviewed	Approved
A	01/07/2018	Draft	SMS Working Party	Committee	
B	29/08/2018	1	SMS Working Party	Committee	29/08/2018
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Revision Record

Revision	Date issued	Description of Changes
1	29/08/2018	Additions from SRA 73 Class Manual/ Inspection
2	30/01/2019	Additional information

Schedule of 6 Monthly Diesel Locomotive Inspection and Maintenance

F-050

Document Distribution List

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Master Copy	OTHR		1
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Rail Safety Regulators	ONRSR	Yes	4

SCHEDULE OF SIX MONTHLY DIESEL HYDRAULIC LOCOMOTIVE INSPECTION AND MAINTENANCE

Engine N°	Class	Date		
COMPONENT	SCOPE OF WORK	P	F	Intl.
MONTHLY INSPECTION	Perform Monthly Inspection			
ENGINE				
Jacket Water Cooling System	Add cooling system inhibitor – Follow instructions on container ¹ Alfloc			
Water temperature regulators	Remove and check. ⁴			
Radiator Fan	Lubricate 1 fitting – 2 strokes ¹			
Low Water Alarm	Examine and check float operation. ⁴			
Rear Clutch –Main shaft bearing oil reservoir	Drain and fill with clean oil ¹			
Engine Oil & Filters	Change. ¹ Note: Drain all oil from filter housing ⁴			
Engine Breather	Clean, use clean solvent ¹			
Primary Fuel Filter	Clean if necessary ¹			
Fuel Filter Elements	Check & replace if necessary ¹			
Fuel Tank	Drain water and sediment ¹			
Woodward UG8 Governor Oil	Change and fill to full mark on sight glass ¹			
Woodward UG8 Governor Motor	Lubricate wick in oil cup ¹			
Fuel Priming Pump	Lubricate 2 fittings – 2 strokes ¹			
Throttle Linkage	Lubricate linkage and overspeed switch drive. ⁴			
Throttle Cylinders	Disconnect inlet hose and add a few drops of oil. ⁴			
Crankshaft Coupling for Fan Drive	Lubricate 1 fitting until excess grease appears at second plug opening ¹			
Crankshaft End Clearance	Check – maximum permissible clearance 0.9 mm (0.035”). ⁴			
Turbocharger End Float	Check turbo rotor shaft and float. Check condition of turbo compressor wheel and lock nut. ⁴			

Engine Valves Setting	Check valve clearance – adjust if necessary (NB COLD engine). ⁴			
Engine Speed	Check engine speeds with engine at idle (refer to engine tag). ⁴			
Shutoff Control Reset Lever	Lubricate 1 fitting – 2 strokes. Inspect cable for kinks or movement drag ¹			
Tachometer	Lubricate 1 fitting – 1 stroke ¹			
Battery	Clean with baking soda when white deposits appear ¹			
Glow Plugs	Check condition ¹			
TRANSMISSION				
Oil	Check oil for usability ²			
Final Drive Gear Boxes	Check oil for usability ² Lubricate final drive gearbox axle seals.			
Fan Unit Lube Oil	Change lube oil capacity 13.7 litres. ⁴			
UNDERNEATH LOCO				
Bogies and Split Pins	Check split pins and cotters. Check nuts for tightness. ⁴			
Pilot Sanding Valve	Strip down, clean and reassemble. Lubricate with Lithium grease. ⁴			
Hasler Speedometer Transmitter	Add Lithium grease. Ensure sufficient lubrication passes through bearings and is in the gearbox. ⁴			
AIR SYSTEM				
Air Compressor	Drain sump. Remove strainer, clean and replace. Refit with 12.5 litres oil. ⁴			
Air Compressor Filters	Clean air compressor air intake filters. ⁴			
Air Compressor Valves	Remove, dismantle, clean and examine. ⁴			
Air Compressor Breather	Remove and clean crankcase breather, check rubber diaphragm. ⁴			
Gauges	Check calibration to standard test gauge. ⁴			
Air Strainers	Remove, clean elements, blow out and replace. ⁴			
Air Hoses	Examine air hoses at both ends for service life. ⁴			
Centrifugal Dirt Collectors	Remove, clean and replace. ⁴			

Locking Cylinder	Check operation for freedom of travel. Adjust spring tension if required.			
BRAKES				
Brake Blocks	Examine – change if at or close to condemning mark ³			
Brake Rigging	Examine – oil adjusting screws ³			
Main Reservoir	Drain and check security, clean and grease drain cock ³			
Auxiliary Reservoir	Drain and check security, clean and grease drain cock ³			
Piping	Check joints, brackets and clips for security ³			
CM6 Feed Valve	Clean & grease ³			
Rotary Valve	Clean & grease valve, spindle washers and seat ³			
Equalising Piston	Remove, clean & grease ³			
Brake Pipe Cocks	Remove handle, cap and plug. If good, clean, grease and reassemble ³			
Test	as per WHB 4 ³			
CAB				
Windscreen Wipers	Lubricate parts in air chamber. ⁴			

References

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|---|----------------------------------|-----------------|
| 1 | Caterpillar Service Manual | Checked By_____ |
| 2 | Voith Turbo Transmission Manual | Name_____ |
| 3 | SRA 73 Class Manual / Inspection | Date_____ |
| 4 | Westinghouse Brake Manual | |