

5. Maintenance Section

CAUTION

Remove excess grease from the greasing locations. If not removed, the grease and dust combination could cause excessive wear to the mating surfaces.

5.1.4. Service Chart

Regular maintenance is mandatory to keep the equipment in perfect condition. Scheduled maintenance reduces repair cost and maintenance cost to a great extent. There are procedures and checks that the equipment needs at varying intervals. The maintenance schedule given here is calculated based on a thorough research and development by the manufacturer.

Initial Schedule Maintenance Chart

Service Interval	Maintenance Requirement	First Change
First 50 hours	Engine oil	✓
	Engine oil filter	✓
	Transmission oil filter	✓
	Middle & Rear axle - Planetary Axle oil Only	✓
First 1000 hours	Middle & Rear axle including planetary oil	✓
	Transmission oil	✓
	Transmission oil filter	✓

Initial oil and filter should be changed within the recommended interval. Maintenance should be performed at least within 100 hours. Failure to comply, may lead to expiry of warranty issued by Mahindra Construction Equipment.

Periodical Schedule Maintenance Chart

For G80 V

Service Interval	Maintenance Requirement	Clean	Change	Check	Drain	Adjust	Grease
Every 10 hours	Engine oil			✓			
	Radiator coolant			✓			
	Hydraulic oil level			✓			
	Fuel Level			✓			
	Grease all structural joints						✓
	Air Cleaner Choke Indicator			✓			
	Visi-bowl pre-cleaner	✓					
	Air filter primary -outer (by hand tapping- not by pressurized air)	✓					
First 50 hours	Engine oil		✓				
	Engine oil filter		✓				
	Transmission oil filter (New Transmission)		✓				
	Rear axle - Planetary Axle oil		✓				

Service Interval	Maintenance Requirement	Clean	Change	Check	Drain	Adjust	Grease
Every 50 hours	Tire pressure/condition			✓			
	Brake pedal free play			✓		✓	
	Brake oil level			✓			
	Leakage of fuel/engine oil/ Hydraulic oil			✓			
	Structure nut & bolts			✓		✓	
	Wheel nuts torque			✓		✓	
	Propeller shaft greasing						✓
	Parking brake			✓		✓	
	Transmission oil level			✓			
	Any damage to air filter housing body/filter mesh/clamps, dust entry in air cleaner to turbo hose			✓			
	Front axle bearing play					✓	
	Water separator (Integrated with main fuel filter)				✓		
Every 250 hours	Air filter primary - outer (By pressurized air)	✓					
Every 500 hours	Engine oil		✓				
	Engine oil filter		✓				
	Fuel filter - pre filter and main filter		✓				
	Front axle bearing						✓
	Fuel tank drain				✓		
	Rear axle oil			✓			
	Rear axle breather	✓					
	Engine and Transmission mounting bolts			✓		✓	
	Battery electrolyte			✓			
	Turn table wear pad thickness			✓			
First 1000 hours	Rear axle oil		✓				
	Transmission oil		✓				
	Transmission oil filter		✓				
	Fan belt		✓				
Every 1000 hours	Air filter - Primary (outer) and safety element (inner)		✓				
	Hydraulic oil filter		✓				
	Structure pins & bushes			✓			

Service Interval	Maintenance Requirement	Clean	Change	Check	Drain	Adjust	Grease
Every 1500 hours	Rear axle oil		✓				
	Transmission oil		✓				
	Transmission oil filter		✓				
Every 2000 hours	Hydraulic oil		✓				
	Hydraulic suction strainer	✓					
	Hydraulic breather		✓				
	Radiator coolant		✓				
Every 4000 hours	Diesel particulate filter	✓					

For G90 V, G100 V

Service Interval	Maintenance Requirement	Clean	Change	Check	Drain	Adjust	Grease
Every 10 hours	Engine oil			✓			
	Radiator coolant			✓			
	Hydraulic oil level			✓			
	Fuel Level			✓			
	Grease all structural joints						✓
	Air Cleaner Choke Indicator			✓			
	Visi-bowl pre-cleaner	✓					
	Air filter primary -outer (by hand tapping- not by pressurized air)	✓					
First 50 hours	Engine oil		✓				
	Engine oil filter		✓				
	Transmission oil filter (New Transmission)		✓				
	Middle and rear axle - Planetary Axle oil		✓				

Service Interval	Maintenance Requirement	Clean	Change	Check	Drain	Adjust	Grease
Every 50 hours	Water separator				✓		
	Tire pressure/condition			✓			
	Brake pedal free play			✓		✓	
	Brake oil level			✓			
	Leakage of fuel/engine oil/ Hydraulic oil			✓			
	Structure nut & bolts			✓		✓	
	Wheel nuts torque			✓		✓	
	Propeller shaft greasing						✓
	Parking brake			✓		✓	
	Transmission oil level			✓			
	Belt tension			✓		✓	
	Any damage to air filter housing body/filter mesh/clamps, dust entry in air cleaner to turbo hose			✓			
	Front axle bearing play					✓	
Every 100 hours	Fresh air filter (HVAC Cabin)	✓					
	Recirculation filter (HVAC Cabin)	✓					
Every 250 hours	Air filter primary - outer (By pressurized air)	✓					
First 500 hours	Banjo washer to be replaced with dowty washer at both fuel filter joints		✓				

Service Interval	Maintenance Requirement	Clean	Change	Check	Drain	Adjust	Grease
Every 500 hours	Engine oil		✓				
	Engine oil filter		✓				
	Fuel filter - pre filter and main filter		✓				
	Front axle bearing						✓
	Fuel tank drain				✓		
	Middle & Rear axle oil			✓			
	Middle & Rear axle breather	✓					
	Engine & Transmission mounting bolts			✓		✓	
	Battery electrolyte			✓			
	Turn table wear pad thickness			✓			
	Fresh air filter (HVAC Cabin)		✓				
	Recirculation filter (HVAC Cabin)		✓				
	Supply Module Filter (G100 V Only)		✓				
	DEF tank filter change (G100 V Only)		✓				
First 1000 hours	Middle and rear axle oil		✓				
	Transmission oil		✓				
	Transmission oil filter		✓				
	Tappet setting		✓				
	Fan Belt		✓				
	Compressor belt (HVAC Cabin)		✓				
Every 1000 hours	Air filter - Primary (outer) and safety element (inner)		✓				
	Hydraulic oil filter		✓				
	Structure pins & bushes			✓			
Every 1500 hours	Middle and rear axle oil		✓				
	Transmission oil		✓				
	Transmission oil filter		✓				
Every 2000 hours	Hydraulic oil		✓				
	Hydraulic suction strainer	✓					
	Hydraulic breather		✓				
	Radiator coolant		✓				
Every 4000 hours	Diesel particulate filter	✓					

(E) NOTE

Safety element should not be cleaned. For replacement contact nearest Mahindra Construction Equipment dealer.

(E) NOTE

Primary air filter element should be cleaned at every 10 hours by hand tapping and to be cleaned by pressurized air (below 2kg/cm²) at every 250 hours. If indicator glows for air filter choking at any time, clean primary filter immediately.

5.1.5. Refill Capacities

While refilling the various components of the equipment, strictly follow the manufacturer's recommendations to avoid failures. Refill up to the prescribed level only. The refill capacities of various components are provided in this section.

Legend	Description	Refill capacity (In Litres)	Interval	Specification	Recommended lubricants
A	Hydraulic Oil	50	2000 hrs	VG 68-IOCL-SERVO HYDREX 68	Mahindra RoadMaster Hydraulic Oil
B	Fuel	100		Bharat Stage VI diesel as per IS1460	
C	Engine coolant	17	2000 hrs	GLYSANTIN G37-92	Mahindra RoadMaster Ready To use Coolant
D	Engine oil	13.5	500 hrs	15w40 - MAXIMILE HDO6	
E	Transmission oil	16	1500 hrs	C4 SAE 30 Servo Transmission C4	Mahindra RoadMaster Transmission Oil
F	Middle Axle & Rear Axle oil (Differential)	14.5	1500 hrs	IOCL SERVO GEAR Super LS 80W90	Mahindra RoadMaster Rear Axle Oil
G	Middle Axle & Rear Axle oil (Final Drive)	1.5 (On each side)	1500 hrs	IOCL SERVO GEAR Super LS 80W90	Mahindra RoadMaster Rear Axle Oil
H	Grease	As required	Refer maintenance section	NLGI2 (SERVO EP2)	Mahindra RoadMaster Grease
	Ad Blue (G100 V only)	18		Ad Blue	Maxipure Diesel Exhaust Fluid
J	Brake oil	Top up		Servo Transact HBF	Mahindra Road Master Brake Fluid

(E) NOTE

The recommended lubricant will work fine from temperature range -5°C to 50°C . For ensuring optimum performance, it is a must to use only recommended lubricant.