

5.1.5. 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 (new transmission)	✓
	Rear axle - Planetary oil	✓
First 1000 hours	Rear axle - complete axle oil	✓
	Transmission oil	✓
	Transmission oil filter	✓

Initial oil and filter should be changed within the recommended interval. Initial maintenance should be performed exactly at 50 hours. Maintenance should be performed atleast within 100 hours. Failure to comply, may lead to expiry of warranty issued by Mahindra Construction Equipment Ltd.

Periodical Schedule Maintenance Chart

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			✓			
	Transmission oil			✓			
First 50 hours	Engine oil		✓				
	Engine oil filter		✓				
	Transmission oil filter		✓				
	Rear axle - Planetary axle oil		✓				
	Front axle Planetary oil (4WD)		✓				

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			✓			
	Any damage to air filter housing body/filter mesh/clamps, dust entry in air cleaner to turbo hose			✓			
	Front axle hub play			✓			
Every 250 hours	Air filter - Primary (Outer)	✓					
	Battery electrolyte and clamps			✓			
	Alternator/Fan Belt			✓			
Every 500 hours	Engine oil		✓				
	Engine oil filter		✓				
	Main fuel filter assembly		✓				
	Pre fuel filter assembly		✓				
	Radiator coolant					✓	
	Front axle bearing						✓
	Fuel tank				✓		
	Rear axle oil			✓			
	Rear axle oil breather	✓					
	Engine and transmission mounting bolts			✓			
	Battery electrolyte			✓			
First 1000 hours	Rear axle oil		✓				
	Front axle oil (4WD)		✓				
	Transmission oil		✓				
	Transmission oil filter		✓				
Every 1000 hours	Air filter - Primary (outer)		✓				
	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 strainer	✓					
	Hydraulic steering system strainer	✓					
	Hydraulic breather		✓				
	Radiator coolant		✓				
Every 2500 hours	Air Filter Safety Element (Inner)		✓				
Every 3000 hours	Hydraulic tank oil		✓				
Every 4000 hours	Diesel particulate filter	✓					
For4WD							
Every 500 hours	Front axle oil			✓			
	Front axle breather			✓			
Every 1500 hours	Front axle oil		✓				



NOTE

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



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.

5.1.6. 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. Refill up to prescribed level only. The refill capacities of various components are provided in this section.

Below illustrations Shows Service Refill Locations in the 2WD Machines

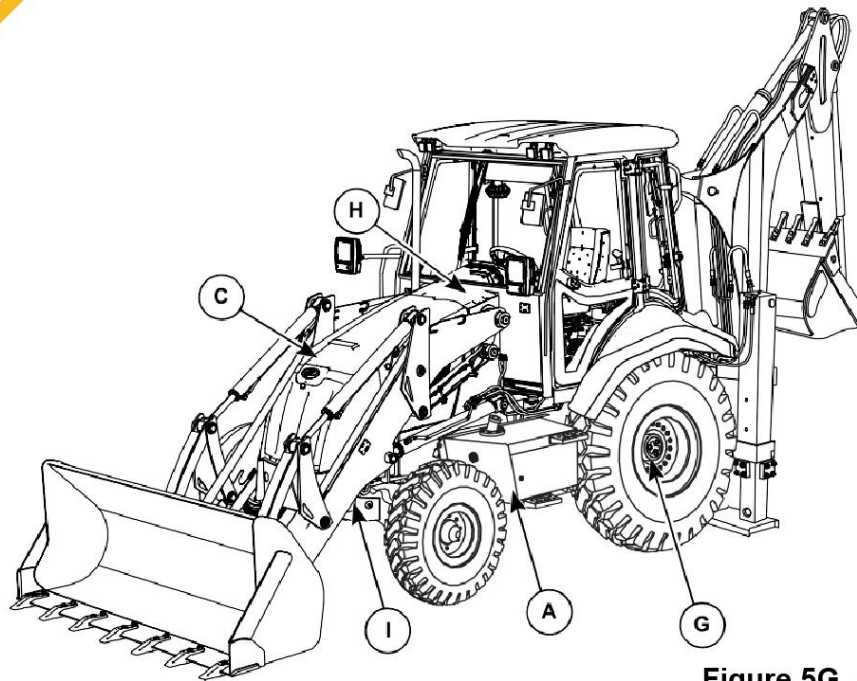


Figure 5G

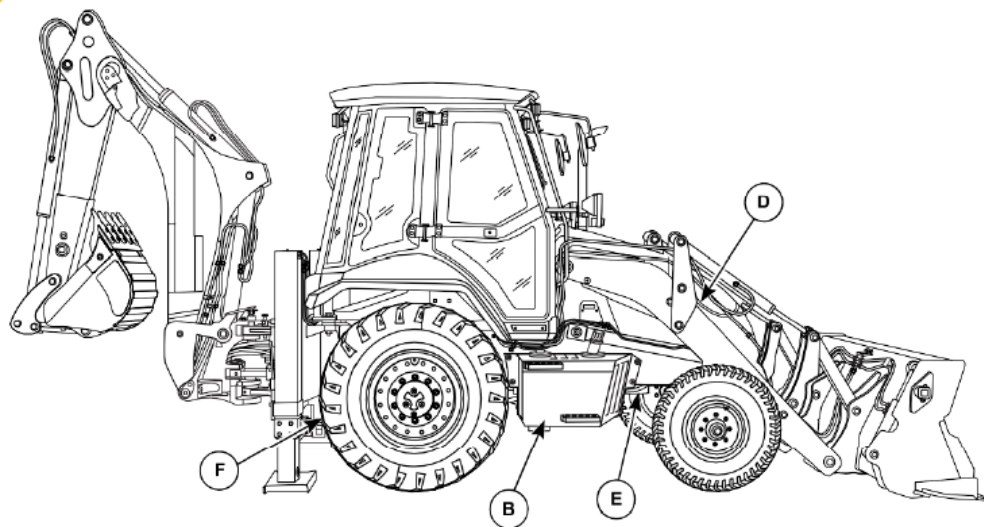


Figure 5H

5. Maintenance section

Below illustrations Shows Service Refill Locations in the 4WD Machines

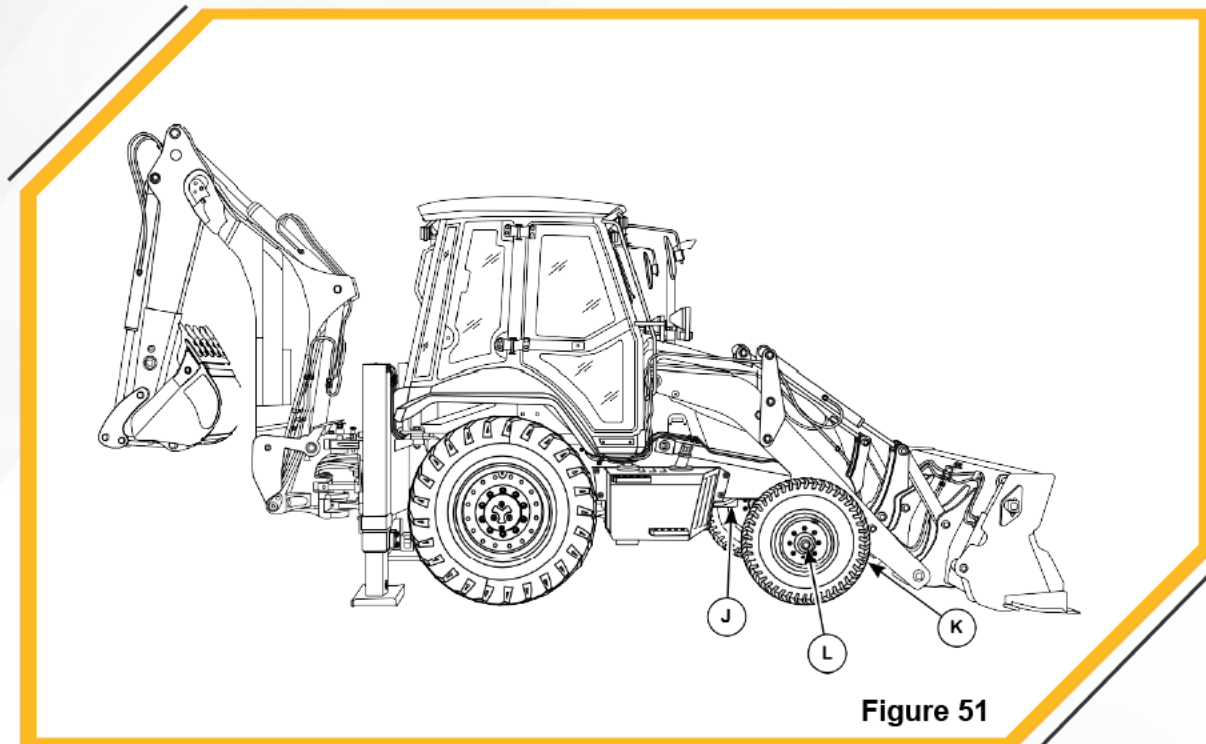


Figure 51

Refill Capacities for 2WD

Legend	Description	Refill capacity (In Litres)	Interval	Specification	Recommended lubricants
A	Hydraulic Oil	50	3000 hrs	VG 68-IOCL-SERVOHYDREX 68	Mahindra EarthMaster Hydraulic Oil
B	Fuel tank	140		Bharat Stage VI diesel as per IS1460	
C	Engine coolant	17	2000 hrs	GLYSANTIN G37-92	Mahindra EarthMaster Ready To use Coolant
D	Engine oil	13.7	500 hrs	15w40 - MAXIMILE HDO6	
E	Transmission oil	10.2	1500 hrs	C4 SAE 30 Servo Transmission C4	Mahindra EarthMaster Transmission Oil
F	Rear Axle oil (Differential)	17.1	1500 hrs	IOCL SERVO GEAR Super LS 80W90	Mahindra EarthMaster Rear Axle Oil
G	Rear Axle oil (Final Drive)	1.5 (On each side)	1500 hrs	IOCL SERVO GEAR Super LS 80W90	Mahindra EarthMaster Rear Axle Oil
H	Brake oil	Top-up		IOCL/ SERVO TRANSTRAC HVI	Mahindra EarthMaster Brake fluid
I	Grease	As required	Refer maintenance section	NLG12 (SERVO EP2)	Mahindra EarthMaster Grease