

13. MAINTENANCE

- For each of the checkpoints listed below, check and service at the intervals indicated in the table.
- For the inspection and maintenance procedures, for details, see "Chapter 14. PERIODIC SERVICE" on page 14-1.

1. Maintenance Check List

Table 13-1

Topic		Time	Service Intervals														
			Daily	If Necessary	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 3000 hours	Every 6000 hours	Every 9000 hours	Every 1 year	Every 2 years		
																✓: By user ●:By authorized Yanmar dealer or distributor	
Engine Oil Level	Check	Daily	✓														
Transmission Hydraulic Oil Level	Check	Daily	✓														
Tire Air Pressure	Check	Daily	✓														
Grille	Check	Daily	✓														
Fuel Tank	Check/Refill	Daily	✓														
Rubber Dust Unloading Valve	Check	Daily	✓														
Radiator Hose and Clamp	Check	Daily Every 500hr or 2 years whichever occurs first	✓				●*1										●*1
	Replace	If Necessary		●													
Radiator Cooling Screen	Check	Daily	✓														
Oil Cooler Screen	Check	Daily	✓														
Safety Systems	Check	Daily	✓														
Radiator Cooling Fins	Clean	Every 50 hr			✓												
Cooling System	Check	Daily	✓														
Coolant	Flush/Change	Every 2000hr or 2 years whichever occurs first									●*1						●*1
Fuel Line	Check	Daily Every 500hr or 2 years whichever occurs first	✓				●*1										●*1
	Replace	If Necessary		●													
Power Steering Line	Check	Daily Every 500hr or 2 years whichever occurs first	✓				●*1										●*1
	Replace	If Necessary		●													
Retractable seatbelt	Check	Daily Every 500hr or 2 years whichever occurs first	✓				●*1										●*1
	Replace	If necessary		●													
Roll-Over Protective Structure (ROPS)	Check	Daily Every 500hr or 2 years whichever occurs first	✓				●*1										●*1
	Replace	If necessary		●													
Headlights, Hazard Lights, and all other lights (lights and/or bulbs).	Check	Daily Every 500hr or 2 years whichever occurs first	✓				●*1										●*1
	Replace	If necessary		✓													
Fan and Alternator Belt	Inspect	Every 50 hr			✓												
	Adjust	50/250 hr and every 250hr after or every year whichever occurs first			●1st time		●*1										●*1
	Replace	If Necessary		●													
Air Cleaner Element	Check/Clean	Every 250 hr and if necessary	✓				●*3										
	Replace	Every 500 hr or every year whichever occurs first and if necessary		●			●*1										●*1
Fuses	Replace	If necessary		●													
Battery Condition	Check	Every 50hr			✓												

13. MAINTENANCE

Topic		Time	✓: By user ●:By authorized Yanmar dealer or distributor														
			Service Intervals														
			Daily	If Necessary	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 3000 hours	Every 6000 hours	Every 9000 hours	Every 1 year	Every 2 years		
Fuel Filter	Replace	Every 500 hr or every 2 years whichever occurs first					●*1										●*1
Fuel/Water Separator	Check	Daily	✓														
	Drain	Every 50 hr and if necessary		✓	✓												
	Replace	Every 500 hr or every 2 years whichever occurs first					●*1										●*1
Wheel Bolt Tightening Torque	Check	After one hour of break -in and every 50 hr Every 250 hr or every 1 year whichever occurs first			✓*2	●*1											●*1
Engine Oil	Change	Every 250 hr or every year whichever occurs first				●*1											●*1
Engine Oil Filter	Replace	Every 250 hr or every year whichever occurs first				●*1											●*1
Transmission Hydraulic Oil	Change	50/500 hr and every 500hr after			●1 st time		●										
Transmission Hydraulic Oil Filter	Replace	50/500 hr and every 500hr after			●1 st time		●										
Line Filter	Replace	50/500 hr and every 500hr after			●1 st time		●										
Hydraulic hose	Check	Daily Every 500hr or 2 years whichever occurs first	✓				●*1										●*1
	Replace	If Necessary		●													
Grease fittings	Grease	Every 50 hr			✓*4												
Toe-in	Inspect/ Adjust	50/250 hr and every 250hr after			●1 st time	●											
Front Axle Pivot	Grease	Every 50hr			✓*4												
Air Intake Hoses and Clamps	Check	50/250 hr and every 250hr after or every year whichever occurs first			●1 st time	●*1											●*1
	Replace	If Necessary		●													
Front Axle Gear Oil	Check	Every 50hr			✓												
	Change	Every 500hr					●										
Brake	Adjust	Every 500hr					●										
	Replace	If necessary		●													
Engine Valve Clearance* ⁵	Adjust	Every 1000hr						●									
Fuel Injection Nozzle* ⁵	Check	Every 3000hr											●				
ECU and related sensors and actuators* ⁵	Inspect	Every 3000 hr or every 2 years whichever occurs first											●*1				●*1
EGR valve* ⁵	Inspect/ clean	Every 3000hr											●				
Crankcase breather system* ⁵	Inspect	Every 1500hr							●								
Intake throttle valve* ⁵	Inspect/test	Every 3000hr											●				
DPF DOC and related actuators* ⁵	Inspect	Every 3000hr											●				
DOC* ⁵	Replace	Every 9000hr.														●	
Soot filter* ⁵	Clean	At 6000hr and 6000hr after replacement												●			
	Replace	Every 9000hr.														●	

For assistance in periodic maintenance procedures, contact YOUR LOCAL YANMAR TRACTOR DEALER.

NOTE
 ● Check the wheel bolt tightening torque after one hour of break-in.

13. MAINTENANCE

CAB type

Periodic inspection list (CAB type)

Topic		Time	✓: By user ●:By authorized Yanmar dealer or distributor													
			Service Intervals													
			Daily	If Necessary	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 3000 hours	Every 6000 hours	Every 9000 hours	Every 1 year	Every 2 years	
Internal air inlet filter	Clean	Every 250 hours				●										
	Replace	Every 500hr or 2 years whichever occurs first						●*1								●*1
External air inlet filter	Clean	Every 250 hr and if necessary		✓		●*3										
	Replace	Every 500hr or 2 years whichever occurs first						●*1								●*1
Condenser screen	Clean	Daily	✓													
Condenser	Clean	Every 50 hours			✓											
Warm water piping	Check	Every 500hr or 2 years whichever occurs first						●*1								●*1
	Replace	If Necessary		●												
Compressor drive belt	Inspect	Every 50 hours			✓											
	Adjust	50/250 hr and every 250hr after or every year whichever occurs first			●1 st time	●*1									●*1	
Wascher Liquid tank	Check/refill	Daily	✓													

Attachments^{*5}

Periodic inspection list (Attachments^{*5})

Topic		Time	✓: By user ●:By authorized Yanmar dealer or distributor													
			Service Intervals													
			Daily	If Necessary	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 3000 hours	Every 6000 hours	Every 9000 hours	Every 1 year	Every 2 years	
Front Lift hydraulic lines. Check for leakages	Check	Daily 50/500 hr and every 500 hr after	✓		●1 st time	●										
Front lift	Grease	Every 50 hr			✓*4											
Front Lift and front PTO bolts on torque	Check	50/500 hr and every 500 hr after or every 2 years whichever occurs first			●1 st time	●*1										●*1
Front PTO grease nipples	Grease	Every 500 hr				●										
Front PTO gear oil	Check	Every 250 hr				●										
	Replace	Every 500hr or every year whichever occurs first						●*1							●*1	
Front PTO oil filter	Clean	Every 500hr or every year whichever occurs first						●*1							●*1	
	Replace	If Necessary		●												
Drawbar	Grease	Every 50 hr			✓											
	Check	50/500 hr and every 500hr after			●1 st time	●										

*1 Whichever occurs first.

*2 Check the Wheel bolt Tightening torque after one hour of break -in

*3 At Dusty Conditions: Clean filter once every 50 operating hours.

*4 Extremely Wet or Muddy Conditions: Lubricate the grease fittings once every 10 operating hours or once a day.

*5 Dealer can find descriptions of this maintenance on YDS (Manual, Bulletin or Service News)

13. MAINTENANCE

3. Lubricants

Table 13-2

No.	Locations	Capacities	Lubricants	
1	Fuel	Approximately 28 L	No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10°C	
2	Coolant*	CAB: Approximately 5.0 L ROPS: Approximately 4.5 L	High Quality Permanent Type Antifreeze (Ethylene Glycol with corrosion and rust inhibitor chemicals) Coolant Mixture Ratio Distilled Water 50%: Antifreeze 50%	
3	Engine crankcase (with filter)	Approximately 4.3 L	ACEA Service Categories E6 or higher SAE 10W-30	
4	Transmission hydraulic oil	Approximately 31 L	Hydraulic/Transmission Fluid (TF500A)	
5	Front axle case	Approximately 5.5 L	SAE 80W-90 gear oil	
6	Greasing	No. of Greasing points	Lubricants	Type of grease
	Front axle pivot	2	Until grease overflows	General all purpose grease NLGI grade No.2
	Tie rod end	2		
	Lift link	1		

(Specifications and design are subject to change without prior notice for improvement.)

*NOTE

- Immediately after purchasing the tractor:
 - adjust the coolant mixture ratio of the coolant and water to suite the local climate
 - the preceding practice assists in making the tractor function efficiently
- The coolant can remain unchanged for a period of 2 years:
 - if during the period the tractor is operated for less than 2000 hours
 - if the tractor is operated for more than 2000 hours during the period, the coolant has to be replaced during flushing of the system
- After pouring the coolant, run the engine for a short period to mix the two fluids thoroughly.