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.

Table 13-1

1. Maintenance Check List

			-	′ : B		By au dist	tribut	or		nar de	ealer	or
						ervic	e me	_				
Торіс		Time	If Necessary Every 50 hours Every 250 hours Every 250 hours					Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 1 year	Every 2 years
Engine Oil Level	Check	Daily		=	Ш	Ш	Ш	Ш	ш	Ш	Ш	Ш
Transmission Hydraulic Oil	Check	Daily	~									
Level		,										
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	~									
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		•								
Seatbelt	Check	Daily Every 500hr or 2 years whichever occurs first	~				•*1					•*1
	Replace	If necessary		•								
Roll-Over Protective Structure	Check	Daily Every 500hr or 2 years whichever occurs first	~				•*1					●*1
(ROPS)	Replace	If necessary		•								
Headlights, Hazard Lights, and all other lights (lights and/or	Check	Daily Every 500hr or 2 years whichever occurs first	~				●*1					•*1
bulbs).	Replace	If necessary		~								
	Inspect	Every 50 hr			V							
Fan and Alternator Belt	Adjust	50/250 hr and every 250hr after or every year whichever occurs first			●1 st time	•*1					•*1	
	Replace	If Necessary		•								
Air Cleaner Element	Check/ Clean	Every 250 hr and if necessary		V		•*3						
IAII Oleanei Eleinein	Replace	Every 500 hr or every year whichever occurs first and if necesary		•			•*1				•*1	
Fuses	Replace	If necessary		•								
Battery Condition	Check	Every 50hr			~							
Fuel Filter	Replace	Every 500 hr or every 2 years whichever occurs first					•*1					•*1

13. MAINTENANCE

			·	∕ : B ₁	•		tribut	or		nar d	ealer	or
			Service Intervals									
Торіс		Time	Daily If Necessary Every 50 hours Every 250 hours Every 500 hours Every 500 hours						Every 1500 hours	Every 2000 hours	Every 1 year	Every 2 years
	Check	Daily	~	_		_		_	_	_		
Fuel/Water Separator	Drain	Every 50 hr and if necessary		~	~							
The second secon	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			•					
HST Hydraulic filter	Replace	50/500 hr and every 500hr after			●1 st time		•					
Hydraulic hose	Check	Daily Every 500hr or 2 years whichever occurs first	V				•*1					•*1
ľ	Replace	If Necessary		•								
Grease fittings	Grease	Every 50 hr			✓ *4							
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			V							
Tront Axie Geal Oil	Change	Every 500hr					•					
	Check	Daily	~									
Brake	Adjust	Every 500hr					•					
	Replace	If necessary		•								
Engine Valve Clearance*6	Adjust	Every 1000hr						•				
Fuel Injection Nozzle*6	Check	Every 1500hr							•			
Intake/exhaust valve seats*6	Clean	Every 2000hr								•		
Governer lever and engine speed control*6	Check and adjust	Every 250hr				•						
Crankcase breather system*6	Inspect	Every 1500hr							•			

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.

CAB type

Periodic inspection list (CAB type)

			✓: By user ●:By autorized Yanmar dealer or distributor Service Intervals									r					
						Servic	e Inte	erval	3								
Торіс		Time	Daily	If Necessary	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 1 year	Every 2 years					
	Clean	Every 250 hr and if necessary		~		●*3											
External air introduction filter	Replace	Every 500hr or 2 years whichever occurs first					•*1					•*1					
Warm water piping	Check	Every 500hr or 2 years whichever occurs first					●*1					•*1					
	Replace	If Necessary		•													
Wascher Liquid tank	Check/refill	Daily	~														

Attachments*6

Periodic inspection list (Attachments*6)

				√ : B	y user ●:		utoriz stribut		anma	ar de	aler o	r
		Service Intervals										
Торіс		Time	Daily If Necessary Every 50 hours		Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 3000 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			●1 st time		•*1					•*1
Front PTO grease nipples	Grease	Every 500 hr					•					
	Check	Every 250 hr				•						
Front PTO gear oil*5	Replace	Every 500hr or every year whichever occurs first					•*1				●*1	
Front PTO oil filter*5	Clean	Every 500hr or every year whichever occurs first					•*1				•*1	
	Replace	If Necessary		•								
Drawbar	Grease	Every 50 hr			~							
Diawbai	Check	50/500 hr and every 500hr after			●1 st time		•					

^{*1} Whichever occurs first.

 $^{^{\}star 2}$ Check the Wheel bolt Tightening torque after one hour of break -in

 $^{^{\}star 3}$ 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} For SA424 only

 $^{^{*6}}$ Dealer can find descriptions of this maintenance on YDS (Manual, Bulletin or Service News)

3. Lubricants

Table 13-2

No	Loc	ations	Capacit	ies	Lubricants						
No.	Loc	alions	UNIT	SA221	SA424	Lubilcalits					
1	Fuel		L	23	3.0	No.2-D diesel fuel No.1-D diesel fuel below -10°C (14°F)					
2	Coolant		L		.B: 3.3 PS: 2.8	High Quality Perma Antifreeze (Ethylen corrosion and rust Coolant Mixture Ra Distilled Water 50%	e Glycol with inhibitor chemicals) atio				
3	Engine cra (with filter)		L	2.9	3.4	ACEA Service Cate SAE 10W-30 or SA	gories E3, E4, or E5 LE 10W-40				
4	Transmiss oil	ion hydraulic	L	15	5.5	Hydraulic/Transmis (TF500A)	ssion Fluid				
5	Front axle	gear oil	L	3.	.0	SAE 80W-90 gear	oil				
		Tie rod	No. of greasing point	2		Until grease overflows	NLGI GRADE No.2				
6	Greasing	Brake pedal	No. of greasing point	1		Until grease overflows	NLGI GRADE No.2				
		HST pedal	No. of greasing point	1		1		1		Until grease overflows	NLGI GRADE No.2

(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.