



JOHN DEERE

CONSTRUCTION & FORESTRY

EQUIPMENT

UPTIME MAINTENANCE PLANNER

444J, 544J and 624J

As Required								
• Inspect tires and check pressure	• Drain primary fuel filter and clean strainer							
• Check wheel retainer nuts	• Check and clean cab fresh air filter							
• Clean or replace air cleaner elements	• Check and clean cab recirculation air filter							
• Inspect belt, A/C compressor and alternator	• Replace final fuel filter							
Every 10 Hours or Daily								
• Check coolant recovery tank level	• Check hydraulic system oil level							
• Clean air cleaner dust unloader valve	• Check transmission oil level							
• Check engine oil level								
Every 100 Hours								
• Grease loader linkage and cylinder pivots	• Grease oscillating rear axle							
• Grease front steering cylinder pivots	• Grease rear steering cylinder pivots							
Initial Service—250 Hours ¹								
• Change engine break-in oil and replace filter	• Change front and rear differential/axle oil							
Every 250 Hours								
• Grease driveline sliding joints	• Check surge tank level							
• Take engine oil sample								
Every 500 Hours								
• Grease driveline sliding joints, upper and lower	• Replace hydraulic reservoir breather filter							
• Check air intake hoses	• Check park brake oil level							
• Check battery electrolyte level and terminals	• Check front and rear differential/axle oil level							
• Change engine oil and replace filter	• Take transmission oil sample							
• Replace final fuel filter	• Take engine coolant sample							
• Replace primary fuel filter and fuel strainer	• Take diesel fuel sample							
• Replace hydraulic system return filter	• Take axle oil sample							
• Grease rear oscillating support cover	• Take hydraulic oil sample							
Every 1000 Hours								
• Remove and clean engine crankcase vent tube	• Grease frame hinge pivots							
• Replace air cleaner dust unloader valve	• Drain and refill park brake oil							
• Replace air cleaner elements	• Check radiator coolant and hoses							
• Replace transmission oil filter								
Every 2000 Hours								
• Check and adjust engine valve lash	• Clean magnetic axle oil drain plug ²							
• Drain and refill cooling system	• Change transmission oil ³ (normal operation)							
• Change front and rear differential/axle oil	• Re-run clutch calibration (cab monitor)							
• Clean axle differential recirculation screen ⁴ (if equipped)								
Every 4000 Hours								
• Drain, flush, and refill hydraulic oil	• Clean hydraulic system fill strainer							
Every 4500 Hours								
• Replace engine crankshaft dampener								
REQUIRED PARTS								
Description	Part Number	Initial Service ¹ - 250 Hours	Every 250 Hours	Every 500 Hours	Every 1000 Hours	Every 2000 Hours	Every 4000 Hours	Every 4500 Hours
Engine Oil Filter	RE541420	1		1	1	1	1	1
Primary Fuel Filter:								
444J	RE517180			1	1	1	1	1
544J and 624J	RE509036			1	1	1	1	1
Fuel Strainer	AH162914				1	1	1	
In-line Fuel Filter	AT223493				1	1	1	
Final Fuel Filter	RE509032			1	1	1	1	1

PRODUCTIVITY | UPTIME | LOW DAILY OPERATING COSTS

T216921 23JUL10
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REQUIRED PARTS								
Description	Part Number	Initial Service ¹ - 250 Hours	Every 250 Hours	Every 500 Hours	Every 1000 Hours	Every 2000 Hours	Every 4000 Hours	Every 4500 Hours
Transmission Oil Filter	AT336140				1	1	1	
Hydraulic System Return Filter	AT310905			1	1	1	1	1
Hydraulic Reservoir Breather Filter	AM39653			1	1	1	1	1
Air Cleaner Dust Unloader Valve	M89679				1	1	1	
Air Filter (Primary)	AT300487				1	1	1	
Air Filter (Secondary)	AT314583				1	1	1	
Engine Rocker Arm Cover Gasket:								
444J	R123542					1	1	
544J	R123543					1	1	
624J	R504882					1	1	
Engine Crankshaft Dampener:								
544J	RE59355							1
624J	RE508577							1
John Deere Plus-50™ II Engine Oil & Hydraulic Oil:								
444J	TY26674 ⁵	17.5 L (4.6 gal)		17.5 L (4.6 gal)	17.5 L (4.6 gal)	17.5 L (4.6 gal)	114.0 L (30.0 gal)	17.5 L (4.6 gal)
544J	TY26674 ⁵	18.5 L (5.0 gal)		18.5 L (5.0 gal)	18.5 L (5.0 gal)	18.5 L (5.0 gal)	115.0 L (30.3 gal)	18.5 L (5.0 gal)
624J	TY26674 ⁵	24.0 L (6.3 gal)		24.0 L (6.3 gal)	24.0 L (6.3 gal)	24.0 L (6.3 gal)	143.0 L (37.8 gal)	24.0 L (6.3 gal)
Hy-Gard™ Oil:								
444J (S.N. –604689)	TY6354 ⁵	34.0 L (9.0 gal)			0.3 L (0.3 qt)	52.5 L (13.8 gal)	148.0 L (39.0 gal)	
444J (S.N. 604690–)	TY6354 ⁵	44.0 L (11.6 gal)			0.3 L (0.3 qt)	62.5 L (16.5 gal)	161.0 L (42.5 gal)	
544J	TY6354 ⁵	36.0 L (9.5 gal)			0.3 L (0.3 qt)	54.5 L (14.4 gal)	148.0 L (39.0 gal)	
624J	TY6354 ⁵	44.5 L (11.8 gal)			0.3 L (0.3 qt)	67.5 L (17.8 gal)	189.0 L (50.0 gal)	
Pre-Diluted Coolant:								
444J and 544J	TY25081					21.0 L (5.5 gal)	21.0 L (5.5 gal)	
624J	TY25081					22.0 L (5.8 gal)	22.0 L (5.8 gal)	
Coolant Conditioner	TY16004	As Required						
Fluid Analysis Kits ⁶								
Diesel Engine Oil	AT317904		1	1	1	1	1	1
Transmission Oil	AT303189			1	1	1	1	1
Axle Oil	AT303189			2	2	2	2	2
Hydraulic Oil	AT303189			1	1	1	1	1
Diesel Fuel	AT180344			1	1	1	1	1
Engine Coolant	AT183016			1	1	1	1	1
3-Way Heavy Duty Coolant Test	TY16175			1	1	1	1	1

¹ Perform initial service once after the first 250 hours of operation.² The magnetic axle oil drain plug is serving its function when a ball of fine metal particles or machining chips are found on the magnet. If concerned with the amount of debris on the magnet of the drain plug, the magnet could be cleaned and checked again after running a short period of time with fresh oil.³ Service intervals should be reduced to 1500 hours in severe applications, which run the torque converter at high loads for more than approximately 25% of the time. (Examples may include basement digging, land clearing, etc.)⁴ Axle differential recirculation screen is equipped with the optional axle oil coolers.⁵ See operator's manual for recommended oil type and oil viscosities based on operating temperatures.⁶ Based on fluid analysis results, intervals may need to be adjusted for your operating conditions. Consult your local John Deere dealer.

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