



REPLACEMENT PARTS GUIDE

544K 4WD Loader (PIN: 1DW544K__E642665—)



ENGINE AIR FILTER ELEMENT— PRIMARY

[AT178516](#)

Interval (hrs) - 1000.



ENGINE AIR CLEANER DUST UNLOADER VALVE

[R48568](#)

Interval (hrs) - 1000.



HYDRAULIC RESERVOIR BREATHER FILTER

[AM39653](#)

Interval (hrs) - 500.



ENGINE AIR FILTER ELEMENT— SECONDARY

[AT178517](#)

Interval (hrs) - 1000.



OPEN CRANKCASE VENTILATION (OCV) FILTER

[DZ105100](#)

Interval (hrs) - 500.



IN-LINE FUEL STRAINER

[AT223493](#)

Interval (hrs) - 500.



FUEL TANK BREATHER FILTER

[H216169](#)

Interval (hrs) - 4000.



TRANSMISSION OIL FILTER

[AT468647](#)

Interval (hrs) - 2000.



PRIMARY FUEL FILTER

[RE541922](#)

Interval (hrs) - 500.



AXLE OIL FILTER

[AT367635](#)

Interval (hrs) - 1000.



DIESEL PARTICULATE FILTER (COMPONENT OF EXHAUST FILTER)

[RE551148](#)

Interval (hrs) - As Required.



ENGINE ROCKER ARM COVER GASKET

[R528743](#)

Interval (hrs) - 2000.



HYDRAULIC SYSTEM RETURN FILTERS-

[AT335977](#)

Interval (hrs) - 4000.



CAB FRESH AIR FILTER

[AT191102](#)

Interval (hrs) - As Required.



STEERING CYLINDER JOINT

[T277593](#)

Interval (hrs) - As Required.



CAB RECIRCULATION AIR FILTER

[AT307501](#)

Interval (hrs) - As Required.



FINAL FUEL FILTER

[RE541925](#)

Interval (hrs) - 500.

ENGINE OIL FILTER

[RE539279](#)

Interval (hrs) -500.



JOHN DEERE
Genuine Parts and Service

CLICK PART NUMBER TO BUY

*See operator's manual for additional details.

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544K 4WD Loader (PIN: 1DW544K___E642665—)

Part Description	Qty or Capacity	Change Interval In Hours
John Deere Plus-50™ II Engine Oil ⁴	19.0 L (5.0 gal)	500
"John Deere Hy-Gard™ Transmission, Park Brake, and Axle Oil ⁴ "	0.3 L (10.1 oz)	1000
John Deere Hydrau™ Hydraulic Oil ⁴	122.8 L (32.4 gal)	4000
John Deere Cool-Gard™ II Pre-Mix	25.6 L (6.8 gal)	6000
Fluid Analysis Kits ⁵		
Diesel Engine Oil	1	250
Transmission Oil	1	500
Park Brake and Axle Oil	3	500
Hydraulic Oil	1	500
Diesel Fuel	1	500
Engine Coolant	1	500

⁴See operator's manual for recommended oil type and oil viscosities based on operating temperatures

⁵Based on fluid analysis results, intervals may need to be adjusted for operating conditions. See an authorized John Deere dealer.

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Plus-50 is a trademark of Deere & Company

Hy-Gard is a trademark of Deere & Company

Hydrau is a trademark of Deere & Company

Cool-Gard is a trademark of Deere & Company



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Service Intervals

As Required	
• Inspect tires and check pressure	• Drain water from auxiliary fuel filter and water separator—if equipped
• Check wheel bolt torque	• Drain water from primary fuel filter and water separator
• Inspect engine air cleaner elements	• Drain water from final fuel filter
• Inspect air conditioner compressor and alternator belt	• Check and clean or replace cab fresh air filter
• Clean cooler cores	• Check and clean or replace cab recirculating air filter
• Check windshield washer fluid level	• Add coolant extender as indicated by COOL-GARD™ II test strips
• Check rear camera and radar object detection (ROD) system—if equipped	
Every 10 Hours or Daily	
• Clean air cleaner dust unloader valve	• Check hydraulic oil level
• Check coolant level in surge tank	• Check transmission oil level
• Check engine oil level	• Inspect outer pin seals
Every 100 Hours	
• Lubricate loader linkage and cylinder pivots (unless NeverGrease™ equipped)	
Initial Service—250 Hours	
• Drain and refill front and rear axle oil	• Replace axle oil filters—if equipped
• Drain and refill engine oil and replace filter	
Every 250 Hours	
• Take engine oil sample	
Every 500 Hours	
• Check front and rear axle oil level	• Drain and refill engine oil and replace filter
• Lubricate front and rear axle shaft seals	• Replace auxiliary fuel filter—if equipped
• Check battery water level and terminals	• Replace primary fuel filter
• Check air intake hoses and charge air cooler tube couplings	• Replace in-line fuel strainer
• Take engine coolant sample	• Replace final fuel filter
• Take axle oil sample	• Replace hydraulic reservoir breather filter
• Take transmission oil sample	• Check park brake oil level
• Take hydraulic oil sample	• Lubricate front and rear shaft seals on park brake
• Take diesel fuel sample	• Check ride control accumulator—if equipped
• Lubricate driveline upper and lower sliding joints and lower U-joints	
Every 1000 Hours	
• Clean engine crankcase vent tube	• Replace axle oil filters—if equipped
• Replace air cleaner dust unloader valve	• Lubricate frame hinge pivots
• Replace engine air cleaner elements	• Drain and refill park brake oil
• Check coolant	
Every 2000 Hours	
• Replace outer pin seals	• Clean front and rear axle oil recirculation screens—if equipped
• Drain and refill transmission oil and replace filter ³	• Check and adjust engine valve lash (clearance)
• Drain and refill front and rear axle oil ²	• Rerun transmission clutch calibration
Every 4000 Hours	
• Replace crankshaft damper	• Drain, flush, and refill hydraulic system oil
• Clean hydraulic pump case drain in-line screen	• Clean hydraulic system fill strainer
• Replace hydraulic system return filter	
Every 5000 Hours	
• Inspect driveline damper	
Every 6000 Hours	
• Drain and refill cooling system	



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