

# REPLACEMENT PARTS GUIDE

## 644 X (PIN: 1DW644XA\_\_F\_10283—)



### HYDRAULIC SYSTEM RETURN FILTER

**AT478154**  
Interval (hrs) - 4000.

### HYDRAULIC RESERVOIR BREATHER FILTER

**AM39653**  
Interval (hrs) - 500.

### CAB RECIRCULATION AIR FILTER

**AT307501**  
Interval (hrs) - As Required.

### CAB FRESH AIR FILTER

**AT191102**  
Interval (hrs) - As Required.

### TRANSMISSION OIL FILTER

**AT367840**  
Interval (hrs) - 2000.

### AXLE OIL FILTERS

**AH128449**  
Interval (hrs) - 1000.

### OUTER PIN SEALS (IF EQUIPPED)

**AT341091**  
Interval (hrs) - 2000.

### DRIVELINE DAMPER

**AT384333**  
Interval (hrs) - As Required.

### IN-LINE FUEL STRAINER

**AT489745**  
Interval (hrs) - 500.

### ENGINE OIL FILTER

**RE539279**  
Interval (hrs) - 500.

### DIESEL EXHAUST FLUID (DEF) DOSING UNIT FILTER4

**DZ114640**  
Interval (hrs) - 4000.

### FUEL TANK BREATHER FILTER

**H216169**  
Interval (hrs) - 1000.



### AIR CLEANER DUST UNLOADER VALVE

**T158495**  
Interval (hrs) - 1000.

### ENGINE AIR FILTER ELEMENT—PRIMARY

**AT489304**  
Interval (hrs) - As Required.

### ENGINE AIR FILTER ELEMENT SECONDARY

**AT489303**  
Interval (hrs) - As Required.

### DIESEL PARTICULATE FILTER (COMPONENT OF EXHAUST FILTER)

**DZ104596**  
Interval (hrs) - As Required

### DIESEL EXHAUST FLUID (DEF) IN-LINE FILTER4

**DZ118548**  
Interval (hrs) - 6000.

### ENGINE ROCKER ARM COVER GASKET

**R528743**  
Interval (hrs) - 2000.

### OPEN CRANKCASE VENTILATION (OCV) FILTER

**RE553703**  
Interval (hrs) - 2000.

### PRIMARY FUEL FILTER ELEMENT

**DZ115391**  
Interval (hrs) - 500.

### FINAL FUEL FILTER

**DZ115392**  
Interval (hrs) - 500.

### FAST FILL FUEL BREATHER FILTER (IF EQUIPPED)

**T225008**  
Interval (hrs) -500.

### DIESEL EXHAUST FLUID (DEF) TANK BREATHER FILTER"

**H216169**  
Interval (hrs) - 500.



CLICK PART NUMBER TO BUY

\*See operator's manual for additional details

# OIL AND CAPACITIES INFORMATION

644 X (PIN: 1DW644XA\_\_F\_10283—)

Part Description		Qty or capacity	Change Interval In Hours
John Deere Plus-50™ II Engine Oil <sup>5</sup>		28.0 L (7.4 gal)	500
John Deere Hy-Gard™ Transmission Oil <sup>5</sup>		32.0 L (8.5 gal)	2000
John Deere Hy-Gard™ Axle Oil <sup>5</sup> (each)		22.0 L (5.8 gal)	2000
John Deere Hydrau™ Hydraulic System Oil <sup>5</sup>		103.0 L (27.2 gal)	4000
John Deere Cool-Gard™ II Pre-Mix—Engine Coolant		63.0 L (16.6 gal)	6000
John Deere Cool-Gard™ II Pre-Mix—Inverter Coolant		5.7 L (1.5 gal)	6000
Coolant Extender		As Required	As Required
<b>Fluid Analysis Test Kits<sup>6</sup></b>			
Diesel Engine Oil	<a href="#">AT346594</a>	1	250
Transmission Oil	<a href="#">AT346594</a>	1	500
Axle Oil	<a href="#">AT346594</a>	2	500
Hydraulic Oil	<a href="#">AT346594</a>	1	500
Diesel Fuel	<a href="#">TY27329</a>	1	500
Engine Coolant	<a href="#">TY27787</a>	1	500
Inverter Coolant	<a href="#">TY27787</a>		
<sup>3</sup> Grease Daily for deep mud, water, or snow operation. <sup>4</sup> Interval not to exceed 3 years. <sup>5</sup> See operator's manual for recommended oil type and oil viscosities based on operating temperatures. <sup>6</sup> Based on fluid analysis results, intervals may need to be adjusted for operating conditions. See an authorized John Deere dealer.			

Plus-50 is a trademark of Deere & Company

Hydrau is a trademark of Deere & Company

Hy-Gard is a trademark of Deere & Company

Cool-Gard is a trademark of Deere & Company



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## Service Intervals

As Required	
<input type="checkbox"/> Check cab fresh air filter	<input type="checkbox"/> Inspect serpentine belt
<input type="checkbox"/> Check cab recirculation filter	<input type="checkbox"/> Clean cooler cores
<input type="checkbox"/> Check and clean precleaner housing (if equipped)	<input type="checkbox"/> Drain water from primary fuel filter with water separator
<input type="checkbox"/> Check and clean heating and air conditioning housing	<input type="checkbox"/> Service exhaust filter
<input type="checkbox"/> Inspect tires and check pressure	<input type="checkbox"/> Drain, flush, and refill fuel tank
<input type="checkbox"/> Check wheel bolt torque	<input type="checkbox"/> Lubricate cab door hinges
<input type="checkbox"/> Clean hydraulic pump case drain in-line screen	<input type="checkbox"/> Check windshield washer fluid level
<input type="checkbox"/> Inspect engine air cleaner elements	<input type="checkbox"/> Clean debris from coupler lock cylinder (if equipped)
<input type="checkbox"/> Check rear camera and rear object detection (ROD) system (if equipped)	<input type="checkbox"/> Clean and tighten battery terminals
Every 10 Hours or Daily	
<input type="checkbox"/> Check coolant level at inverter surge tank	<input type="checkbox"/> Check hydraulic system oil level
<input type="checkbox"/> Clean air cleaner dust unloader valve	<input type="checkbox"/> Check transmission oil level
<input type="checkbox"/> Check coolant level at engine surge tank	<input type="checkbox"/> Inspect outer pin seals (if equipped)
<input type="checkbox"/> Check engine oil level	
Initial Service—100 Hours	
<input type="checkbox"/> Rerun transmission clutch calibration (cab monitor)	
Every 100 Hours	
<input type="checkbox"/> Lubricate loader linkage and cylinder pivots	<input type="checkbox"/> Lubricate coupler lock pins (if equipped)
Every 250 Hours	
<input type="checkbox"/> Take engine oil sample	
Initial Service—500 Hours	
<input type="checkbox"/> Drain and refill transmission oil and replace filter	<input type="checkbox"/> Replace axle oil filters
<input type="checkbox"/> Rerun transmission clutch calibration (cab monitor)	
Every 500 Hours	
<input type="checkbox"/> Lubricate driveline lower U-joints <sup>3</sup>	<input type="checkbox"/> Replace final fuel filter
<input type="checkbox"/> Lubricate driveline lower sliding joints <sup>3</sup>	<input type="checkbox"/> Lubricate driveline support bearing <sup>3</sup>
<input type="checkbox"/> Lubricate front and rear axle shaft seals <sup>3</sup>	<input type="checkbox"/> Check ride control accumulator (if equipped)
<input type="checkbox"/> Check hybrid battery electrolyte level (if equipped)	<input type="checkbox"/> Take axle oil sample
<input type="checkbox"/> Replace hydraulic reservoir breather	<input type="checkbox"/> Take transmission oil sample
<input type="checkbox"/> Check front and rear axle oil level	<input type="checkbox"/> Take hydraulic oil sample
<input type="checkbox"/> Check air intake hoses and charge air cooler tube couplings	<input type="checkbox"/> Take diesel fuel sample
<input type="checkbox"/> Drain and refill engine oil and replace filter	<input type="checkbox"/> Take engine coolant sample
<input type="checkbox"/> Replace primary fuel filter element	<input type="checkbox"/> Take inverter coolant sample
<input type="checkbox"/> Replace in-line fuel strainer	<input type="checkbox"/> Replace fast fill fuel breather (if equipped)

## Service Intervals

Every 1000 Hours	
<input type="checkbox"/> Check inverter coolant condition	<input type="checkbox"/> Check engine coolant condition
<input type="checkbox"/> Replace air cleaner dust unloader valve	<input type="checkbox"/> Replace axle oil filters
<input type="checkbox"/> Replace engine air cleaner elements	<input type="checkbox"/> Lubricate frame hinge pivots <sup>3</sup>
<input type="checkbox"/> Replace fuel tank breather filter	
Every 2000 Hours	
<input type="checkbox"/> Drain and refill transmission oil and replace filter	<input type="checkbox"/> Replace outer pin seals (if equipped)
<input type="checkbox"/> Replace open crankcase ventilation (OCV) filter	<input type="checkbox"/> Rerun transmission clutch calibration (cab monitor)
<input type="checkbox"/> Check and adjust engine valve lash	<input type="checkbox"/> Drain and refill front and rear axle oil
Every 4000 Hours	
<input type="checkbox"/> Replace diesel exhaust fluid (DEF) tank breather filter	<input type="checkbox"/> Drain, flush, and refill hydraulic system oil
<input type="checkbox"/> Replace diesel exhaust fluid (DEF) dosing unit filter <sup>4</sup>	<input type="checkbox"/> Clean hydraulic system fill strainer
<input type="checkbox"/> Replace hydraulic system return filter	
Every 5000 Hours	
<input type="checkbox"/> Check driveline damper for cracks	
Every 6000 Hours	
<input type="checkbox"/> Drain and refill engine cooling system	<input type="checkbox"/> Drain and refill inverter cooling system
<input type="checkbox"/> Replace diesel exhaust fluid (DEF) in-line filter <sup>4</sup>	