

# REPLACEMENT PARTS GUIDE

## 648L Skidder (PIN: 1DW648L\_\_\_C666893—)



### CAB RECIRCULATING AIR FILTER ELEMENT

[AT307501](#)

Interval (hrs) - As Required.



### CAB FRESH AIR FILTER ELEMENT

[AT191102](#)

Interval (hrs) - As Required.



### ENGINE DRIVE SHAFT (640 AND 648L ONLY)

[AT440747](#)

Interval (hrs) - 10000.



### PRIMARY TRANSMISSION OIL FILTER

[AT468647](#)

Interval (hrs) - 2000.



### SECONDARY TRANSMISSION OIL FILTER

[T436566](#)

Interval (hrs) - 4000.



### ENGINE ROCKER ARM COVER GASKET (6.8 L ENGINES ONLY)

[R524497](#)

Interval (hrs) - 2000.



### PRIMARY AIR FILTER (9.0 L ENGINES ONLY)

[AT308575](#)

Interval (hrs) - As Required.



### DUST UNLOADER VALVE

[T158495](#)

Interval (hrs) - As Required.



### HYDRAULIC RESERVOIR BREATHER FILTER

[AT421408](#)

Interval (hrs) - 4000.



### HYDRAULIC SYSTEM OIL FILTER ELEMENT

[F061786](#)

Interval (hrs) - 4000.



### ENGINE ROCKER ARM COVER GASKET (9.0 L ENGINES ONLY)

[R527884](#)

Interval (hrs) - 2000.



### PRIMARY AIR FILTER (6.8 L ENGINES ONLY)

[AT223226](#)

Interval (hrs) - As Required.



### ENGINE CRANKSHAFT DAMPER (6.8 L ENGINES ONLY)

[RE508578](#)

Interval (hrs) - 4000.



### ENGINE CRANKSHAFT DAMPER (9.0 L ENGINES ONLY)

[RE520465](#)

[RE57604](#)

Interval (hrs) - 4000.



### SECONDARY AIR FILTER (6.8 L ENGINES ONLY)

[AT175224](#)

Interval (hrs) - As Required.



### SECONDARY AIR FILTER (9.0 L ENGINES ONLY)

[TT220747](#)

Interval (hrs) - As Required.

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## AXLE OIL FILTER ELEMENTS

[AT367635](#)

Interval (hrs) - 1000.



## PRIMARY AND FINAL FUEL FILTER ELEMENT KIT (9.0 L ENGINES ONLY)

[RE525523](#)

Interval (hrs) - 500.



## AUXILIARY FUEL FILTER ELEMENT (9.0 L ENGINES ONLY)

[AT365869](#)

Interval (hrs) - 500.



## FINAL FUEL FILTER ELEMENT (6.8 L ENGINES ONLY)

[RE522878](#)

Interval (hrs) - 500.



## ENGINE OIL FILTER ELEMENT (9.0 L ENGINES ONLY)

[DZ101884](#)

Interval (hrs) - 500.



## ENGINE OIL FILTER ELEMENT (6.8 L ENGINES ONLY)

[RE504836](#)

Interval (hrs) - 500.



## AUXILIARY FUEL FILTER ELEMENT (6.8 L ENGINE ONLY)

[AT365870](#)

Interval (hrs) - 500.



## PRIMARY FUEL FILTER ELEMENT (6.8 L ENGINES ONLY)

[RE541922](#)

Interval (hrs) - 500.





**JOHN DEERE**  
Genuine Parts and Service

CLICK PART NUMBER TO BUY

\*See operator's manual for additional details.






# OILS AND CAPACITIES INFORMATION

648L Skidder (PIN: 1DW648L\_ \_ \_C666893— )

Part Description	Part Number	Qty or capacity	Change Interval In Hours
John Deere Plus-50™ II Engine Oil <sup>3</sup> (6.8 L engines only) 	<a href="#">TY26669</a>	24.0 L (6.3 gal)	500
John Deere Plus-50™ II Engine Oil <sup>3</sup> (9.0 L engines only) 	<a href="#">TY26669</a>	28.5 L (7.5 gal)	500
John Deere Hy-Gard™ Oil <sup>3</sup> : Front Axle—1400 Series 	<a href="#">TY6354</a>	31.0 L (8.2 gal)	2000
John Deere Hy-Gard™ Oil <sup>3</sup> : Rear Axle—1400 Series 	<a href="#">TY6354</a>	32.0 L (8.5 gal)	2000
John Deere Hy-Gard™ Oil <sup>3</sup> : Front Axle—SWEDA 	<a href="#">TY6354</a>	31.4 L (8.3 gal)	2000
John Deere Hy-Gard™ Oil <sup>3</sup> : Rear Axle—SWEDA 	<a href="#">TY6354</a>	32.4 L (8.6 gal)	2000
John Deere Hy-Gard™ Oil <sup>3</sup> : Front Axle—1700 Series 	<a href="#">TY6354</a>	106.0 L (28.0 gal)	2000
John Deere Hy-Gard™ Oil <sup>3</sup> : Rear Axle—1700 Series 	<a href="#">TY6354</a>	107.0 L (28.3 gal)	2000
John Deere Hy-Gard™ Oil <sup>3</sup> : Park Brake 	<a href="#">TY6354</a>	0.8 L (27.0 fl oz)	1000
John Deere Hy-Gard™ Oil <sup>3</sup> : Transmission 	<a href="#">TY6354</a>	57.0 L (15.1 gal)	2000

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Part Description	Part Number	Qty or capacity	Change Interval In Hours
John Deere Hydrau™ Oil <sup>3</sup> : Hydraulic System Oil 	<a href="#">TY27367</a>	123.6 L (32.7 gal)	4000
John Deere Hydrau™ Oil <sup>3</sup> : Winch Oil—4000 Series (if equipped) 	<a href="#">TY27367</a>	35.2 L (9.3 gal)	4000
John Deere Hydrau™ Oil <sup>3</sup> : Winch Oil—6000 Series (if equipped) 	<a href="#">TY27367</a>	45.5 L (12.0 gal)	4000
John Deere Cool-Gard™ II Pre-Mix (6.8 L engines only) 	<a href="#">TY26575</a>	31.4 L (8.3 gal)	6000
John Deere Cool-Gard™ II Pre-Mix (9.0 L engines only) 	<a href="#">TY26575</a>	36.7 L (9.7 gal)	6000
<b>Fluid Analysis Test Kits<sup>4</sup></b>			
Diesel Engine Oil	<a href="#">AT346594</a>	1	250
Hydraulic Oil	<a href="#">AT346594</a>	1	500
Transmission Oil	<a href="#">AT346594</a>	1	500
Axle Oil	<a href="#">AT346594</a>	2	500
Park Brake Oil	<a href="#">AT346594</a>	1	500
Diesel Fuel	<a href="#">AT180344</a>	1	500
Winch Gear Case Oil (if equipped)	<a href="#">AR69444</a>	1	500
Engine Coolant	<a href="#">TY27787</a>	1	500
<sup>3</sup> See operator's manual for recommended oil type and oil viscosities based on operating temperatures. <sup>4</sup> 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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Cool-Gard is a trademark of Deere & Company



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## Service Intervals

As Required	
• Inspect accessory drive belt	• Check fire extinguisher charge
• Replace engine air cleaner elements	• Lubricate cab door hinges
• Check tire pressure	• Adjust grapple damper (grapple skidders only)
• Check wheel bolt torque	• Check cab recirculating air filter
• Clean fuel tank inlet screen	• Check cab fresh air filter
Every 10 Hours or Daily	
• Check engine coolant level	• Check and clean engine air cleaner dust unloader valve
• Check engine oil level	• Lubricate articulation points
• Check transmission oil level	• Lubricate yoke and cross head (grapple skidders only)
• Check hydraulic system oil level	• Lubricate tong linkage and cylinder pivots (grapple skidders only)
• Check and drain primary fuel filter and water separator	• Lubricate arch/boom linkage and cylinder pivots (grapple skidders only)
• Check and drain auxiliary fuel filter and water separator	• Lubricate winch fairlead rollers (cable skidders only)
• Clean engine air intake precleaner screen	
Every 100 Hours	
• Lubricate rear axle pinion seal and park brake seals	• Lubricate blade and cylinder pivots
• Lubricate front axle pivots, pinion seal, and hydraulic steering cylinder pins	• Lubricate winch fairlead rollers (grapple skidders only)
Every 250 Hours	
• Take engine oil sample	
Initial Service—500 Hours	
• Drain and refill axle oil	• Replace axle oil filters
Every 500 Hours	
• Drain and refill engine oil and replace filter	• Check engine air intake hoses
• Inspect engine crankshaft damper (9.0 L engines only)	• Take transmission oil sample
• Replace primary fuel filter and water separator	• Take hydraulic oil sample
• Replace auxiliary fuel filter and water separator	• Take axle oil sample
• Replace final fuel filter	• Take park brake oil sample
• Check axle oil level	• Take engine coolant sample
• Check park brake oil level	• Take diesel fuel sample
• Lubricate front, rear, and articulation drive shafts	• Take winch gear case oil sample (if equipped)
• Remove and clean open crankcase ventilation (OCV) hose	
Every 1000 Hours	
• Drain and refill park brake oil	• Lubricate grapple rotate bearing (grapple skidders only)
• Replace axle oil filters	• Check coolant condition
Initial Service—2000 Hours	
• Replace hydraulic system oil filter	
Every 2000 Hours	
• Drain and refill transmission oil and replace primary transmission oil filter	• Inspect engine crankshaft damper (6.8 L engines only)
• Drain and refill axle oil	• Check and adjust engine valve lash
• Inspect sun gear (1700 series axles equipped with large duals only)	
Every 4000 Hours	
• Drain and refill hydraulic system oil	• Drain and refill winch oil (if equipped)
• Replace hydraulic system oil filter	• Replace secondary transmission oil filter
• Replace hydraulic reservoir breather filter	• Replace engine crankshaft damper
Every 6000 Hours	
• Drain and refill engine cooling system	
Every 10 000 Hours	
• Replace engine drive shaft	