

REPLACEMENT PARTS GUIDE

648L Skidder (PIN: 1DW648L__F666893)



HYDRAULIC RESERVOIR BREATHER FILTER

[AT421408](#)

Interval (hrs) - 4000.



DIESEL EXHAUST FLUID (DEF) HEADER SUCTION FILTER

[DZ114640](#)

Interval (hrs) - 2000.



DIESEL EXHAUST FLUID (DEF) DOSING UNIT FILTER

[DZ103739](#)

Interval (hrs) - 2000.



DIESEL PARTICULATE FILTER (DPF)

[RE559541](#)

Interval (hrs) - As Required



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

[R528743](#)

Interval (hrs) - 2000.



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

[R526607](#)

Interval (hrs) - 2000.



DIESEL EXHAUST FLUID (DEF) TANK BREATHER FILTER

[H216169](#)

Interval (hrs) - 4000.



HYDRAULIC SYSTEM OIL FILTER ELEMENT

[F061786](#)

Interval (hrs) - 4000.



PRIMARY AIR FILTER (6.8 L ENGINES ONLY)

[AT223226](#)

Interval (hrs) - As Required.



SECONDARY AIR FILTER (6.8 L ENGINES ONLY)

[AT175224](#)

Interval (hrs) - As Required..



OPEN CRANKCASE VENTILATION (OCV) FILTER, (6.8 L ENGINES ONLY)—748L

[RE553703](#)

Interval (hrs) - 1500.



OPEN CRANKCASE VENTILATION (OCV) FILTER, (6.8 L ENGINES ONLY)—640L AND 648L, FOR ENGINES IT4/FT4 WITH DOC ONLY

[DZ105796](#)

Interval (hrs) -1500.



OPEN CRANKCASE VENTILATION (OCV) FILTER, (6.8 L ENGINES ONLY)—640L AND 648L, FOR ENGINES IT4/FT4 WITH DOC/DPF

[DZ105100](#)

Interval (hrs) - 1500.



AUXILIARY FUEL FILTER ELEMENT (9.0 L ENGINES ONLY)

[AT365869](#)

Interval (hrs) - 500.



JOHN DEERE
Genuine Parts and Service

CLICK PART NUMBER TO BUY

*See operator's manual for additional details.

Apr. 2022. Release Date.

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CAB RECIRCULATING AIR FILTER ELEMENT

[AT307501](#)

Interval (hrs) - As Required.

CAB FRESH AIR FILTER ELEMENT

[AT191102](#)

Interval (hrs) - As Required.

PRIMARY TRANSMISSION OIL FILTER

[AT468647](#)

Interval (hrs) - 2000.

SECONDARY TRANSMISSION OIL FILTER

[T436566](#)

Interval (hrs) - 4000.

AXLE OIL FILTER ELEMENT

[AT367635](#)

Interval (hrs) - 1000.

ENGINE DRIVE SHAFT (640L AND 648L ONLY)

[AT440747](#)

Interval (hrs) - 10000.

AUXILIARY FUEL FILTER ELEMENT (6.8 L ENGINE ONLY)

[AT365870](#)

Interval (hrs) - 500.

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

[RE556406](#)

Interval (hrs) - 500.

PRIMARY FUEL FILTER ELEMENT (9.0 L ENGINES ONLY)

[RE539465](#)

Interval (hrs) - 500.

FINAL FUEL FILTER ELEMENT (9.0 L ENGINES ONLY)

[DZ112918](#)

Interval (hrs) - 500.

DUST UNLOADER VALVE

[T158495](#)

Interval (hrs) - As Required.

ENGINE OIL FILTER ELEMENT (6.8 L ENGINES ONLY)

[RE539279](#)

Interval (hrs) - 500.

ENGINE OIL FILTER ELEMENT (9.0 L ENGINES ONLY)




[DZ118283](#)

Interval (hrs) - 500.



OILS AND CAPACITIES INFORMATION

648L Skidder (PIN: 1DW648L__F666893)

| Part Description | Part Number | Qty or capacity | Change Interval In Hours |
|--|-------------------------|--------------------|--------------------------|
| John Deere Plus-50™ II Engine Oil ³  | TY26669 | 28.5 L (7.5 gal) | 500 |
| John Deere Hy-Gard™ Oil ³ : Front Axle—1400 Series  | TY6354 | 31.0 L (8.2 gal) | 2000 |
| John Deere Hy-Gard™ Oil ³ : Rear Axle—1400 Series  | TY6354 | 32.0 L (8.5 gal) | 2000 |
| John Deere Hy-Gard™ Oil ³ : Front Axle—SWEDA  | TY6354 | 31.4 L (8.3 gal) | 2000 |
| John Deere Hy-Gard™ Oil ³ : Rear Axle—SWEDA  | TY6354 | 32.4 L (8.6 gal) | 2000 |
| John Deere Hy-Gard™ Oil ³ : Front Axle—1700 Series  | TY6354 | 106.0 L (28.0 gal) | 2000 |
| John Deere Hy-Gard™ Oil ³ : Rear Axle—1700 Series  | TY6354 | 107.0 L (28.3 gal) | 2000 |
| John Deere Hy-Gard™ Oil ³ : Park Brake  | TY6354 | 0.8 L (27.0 fl oz) | 1000 |
| John Deere Hy-Gard™ Oil ³ : Transmission  | TY6354 | 57.0 L (15.1 gal) | 2000 |
| John Deere Hydrau™ Oil: Hydraulic System Oil Transmission  | TY27367 | 123.6 L (32.7 gal) | 4000 |
| John Deere Hydrau™ Oil : Winch Oil ³ —4000 Series (if equipped)  | TY27367 | 35.2 L (9.3 gal) | 4000 |
| John Deere Hydrau™ Oil ³ —6000 Series (if equipped)  | TY27367 | 45.5 L (12.0 gal) | 4000 |
| John Deere Hy-Gard™ II Pre-Mix(6.8 L engines only)  | TY26575 | 36.4 L (9.6 gal) | 6000 |
| John Deere Hy-Gard™ II Pre-Mix(9.0 L engines only)  | TY26575 | 41.7 L (11.0 gal) | 6000 |

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648L Skidder (PIN: 1DW648L__F666893)

| Part Description | Part Number | Qty or capacity | Change Interval In Hours |
|--|--------------------------|-----------------|--------------------------|
| Fluid Analysis Kits⁴ | | | |
| Diesel Engine Oil | AT346594 | 1 | 250 |
| Transmission Oil | AT346594 | 1 | 500 |
| Hydraulic Oil | AT346594 | 1 | 500 |
| Axle Oil | AT346594 | 2 | 500 |
| Park Brake Oil | AT346594 | 1 | 500 |
| Diesel Fuel | AT180344 | 1 | 500 |
| Winch Gear Case Oil (if equipped) | AR69444 | 1 | 500 |
| Engine Coolant | TY27787 | 1 | 500 |

³ See operator's manual for recommended oil type and oil viscosities based on operating temperatures.

⁴ Based on fluid analysis results, intervals may need to be adjusted for operating conditions. Consult an authorized John Deere dealer.

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Hy-Gard is a trademark of Deere & Company

Hydrau is a trademark of Deere & Company

Cool-Gard is a trademark of Deere & Company



CLICK PART NUMBER TO BUY

*See operator's manual for additional details.

Service Intervals

| As Required | |
|--|---|
| • Clean cooler cores | • Check fire extinguisher charge |
| • Inspect accessory drive belt | • Lubricate cab door hinges |
| • Replace engine air cleaner elements | • Adjust grapple damper (grapple skidders only) |
| • Check tire pressure | • Check cab fresh air filter |
| • Check wheel bolt torque | • Check cab recirculating air filter |
| • Clean fuel tank inlet screen | • Service exhaust filter |
| • Fill and charge pressurized water system (if equipped) | |
| Every 10 Hours or Daily | |
| • Check engine coolant level | • Clean engine air intake precleaner screen |
| • Check engine oil level | • Check and clean engine air cleaner dust unloader valve |
| • Check transmission oil level | • Lubricate articulation points |
| • Check hydraulic system oil level | • Lubricate yoke and cross head (grapple skidders only) |
| • Check diesel exhaust fluid (DEF) 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) |
| 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 |
| • Replace primary fuel filter and water separator | • Take transmission oil sample |
| • Replace auxiliary fuel filter and water separator | • Take hydraulic oil sample |
| • Replace final fuel filter | • Take axle oil sample |
| • Check axle oil level | • Take park brake oil sample |
| • Check park brake oil level | • Take engine coolant sample |
| • Lubricate front, rear, and articulation drive shafts | • Take diesel fuel sample |
| • Check open crankcase vent (OCV) system | • Take winch gear case oil sample (if equipped) |
| Every 1000 Hours | |
| • Drain and refill park brake oil | • Lubricate grapple rotate bearing (grapple skidders only) |
| • Replace axle oil filters | • Check coolant condition |
| Every 1500 Hours | |
| • Replace open crankcase ventilation (OCV) filter (6.8 L engines only) | |
| Initial Service—2000 Hours | |
| • Replace hydraulic system oil filter | |
| Every 2000 Hours | |
| • Drain and refill transmission oil and replace primary transmission oil filter | • Replace diesel exhaust fluid (DEF) dosing unit filter |
| • Drain and refill axle oil | • Clean diesel exhaust fluid (DEF) tank (S.N. —XXXXXX) |
| • Check and adjust engine valve lash | • Replace diesel exhaust fluid (DEF) header suction filter (S.N. —XXXXXX) |
| • 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 diesel exhaust fluid (DEF) tank breather filter |
| • Clean diesel exhaust fluid (DEF) tank (S.N. XXXXXX—) | • Replace diesel exhaust fluid (DEF) header suction filter (S.N. XXXXXX—) |
| • Inspect diesel exhaust fluid (DEF) baffle (S.N. XXXXXX—) | |
| Every 6000 Hours | |
| • Drain and refill engine cooling system | |
| Every 10 000 Hours | |
| • Replace engine drive shaft | |