






















REPLACEMENT PARTS GUIDE

644 G-TIER 4WD LOADER (PIN: 1BZ644GA__LA00001—)



	CAB FRESH AIR FILTER T365058 Interval (hrs) - As required
	CAB RECIRCULATION AIR FILTER T365427 Interval (hrs) - As required
	HYDRAULIC SYSTEM RETURN FILTER AT335977 Interval (hrs) - 4000
	AXLE OIL FILTERS AH128449 Interval (hrs) - 1000
	TRANSMISSION OIL FILTER² AT468647 Interval (hrs) - 2000
	ENGINE OIL FILTER RE539279 Interval (hrs) - 500
	DIESEL EXHAUST FLUID (DEF) TANK BREATHER FILTER H216169 Interval (hrs) - 4000
	AIR CLEANER DUST UNLOADER VALVE T301962 Interval (hrs) - 1000
	OPEN CRANKCASE VENTILATION (OCV) FILTER DZ105100 Interval (hrs) - 2000
	FUEL TANK BREATHER FILTER AT525959 Interval (hrs) - 2000



	HYDRAULIC RESERVOIR BREATHER FILTER AM39653 Interval (hrs) - 500
	EXHAUST FILTER : DIESEL OXIDATION CATALYST DZ107374 Interval (hrs) - As required
	EXHAUST FILTER : EXHAUST PIPE DZ108054 Interval (hrs) - As required
	DIESEL PARTICULATE FILTER DZ104596 Interval (hrs) - As required
	ENGINE AIR CLEANER ELEMENT—PRIMARY AT178516 Interval (hrs) - 1000
	ENGINE AIR CLEANER ELEMENT—SECONDARY AT178517 Interval (hrs) - 1000
	DIESEL EXHAUST FLUID (DEF) DOSING UNIT FILTER⁵ DZ114640 Interval (hrs) - 4000
	DIESEL EXHAUST FLUID (DEF) IN-LINE FILTER⁵ DZ12440 Interval (hrs) - 6000
	AIR CONDITIONER COMPRESSOR AND SERPENTINE BELT T437054 Interval (hrs) - As required
	AUXILIARY FUEL FILTER ELEMENT (IF EQUIPPED) AT365870 Interval (hrs) - 500
	PRIMARY AND FINAL FUEL FILTER ELEMENT RE556406 Interval (hrs) - 500



OILS AND CAPACITIES INFORMATION

644 G-TIER 4WD LOADER (PIN: 1BZ644GA_ _LA00001—)

Part Description	Qty or capacity	Change Interval In Hours	
John Deere Plus-50™ II Engine Oil ³	19.5 L (5.2 gal)	500	
John Deere Hy-Gard™ Park Brake Oil ³	650.0 mL (0.2 gal)	1000	
John Deere Hy-Gard™ Front Axle Oil ³	25.0 L (6.6 gal)	2000	
John Deere Hy-Gard™ Rear Axle Oil ³	25.0 L (6.6 gal)	2000	
John Deere Hy-Gard™ Transmission Oil ^{2, 3}	30.0 L (7.9 gal)	2000	
John Deere Hydrau-Gard™ XR Hydraulic Oil ³ John Deere Hydrau-Gard™ 46 Plus Hydraulic Oil ³	100.0 L (26.4 gal)	4000	
John Deere Cool-Gard™ II Coolant Oil	34.0 L (9.0 gal)	6000	
Part Description	Part Number	Qty or capacity	Change Interval In Hours
Fluid Analysis Test Kits ⁴			
Diesel Engine Oil Kit	AT346594	1	250
Transmission Oil Kit	AT346594	1	500
Axle Oil Kit	AT346594	2	500
Hydraulic Oil Kit	AT346594	1	500
Diesel Fuel Kit	TY27329	1	500
Engine Coolant Kit	TY27787	1	500
³ For recommended oil type and oil viscosities based on operating temperatures, see Maintenance—Machine. (Section 3-1.) ⁴ Based on fluid analysis results, intervals may need to be adjusted for operating conditions. Consult 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



CLICK PART NUMBER TO BUY

*See operator's manual for additional details.

Service Intervals

Service Intervals—L Engine	
Service machine at intervals shown on this chart. Also, perform service on items at multiples of the original requirement. For example: at 500 hours, also service those items (if applicable) listed under 250 hours and 10 hours or daily.	
Take fluid samples from each system as indicated on this form. The manufacturer of the fluid analysis kits will provide maintenance recommendations based upon the results of the fluid analysis and the operating information supplied. Regular fluid sampling extends the operational life of machine.	
As Required	
<input type="checkbox"/> Inspect tires and check pressure	<input type="checkbox"/> Check wheel bolt torque
<input type="checkbox"/> Inspect or replace cab fresh air filter	<input type="checkbox"/> Inspect or replace cab recirculation filter
<input type="checkbox"/> Drain water from primary fuel filter with water separator	<input type="checkbox"/> Inspect or replace air conditioner compressor and serpentine belt
<input type="checkbox"/> Drain water from auxiliary fuel filter with water separator (if equipped)	<input type="checkbox"/> Clean cooler cores
<input type="checkbox"/> Check rear camera (if equipped)	<input type="checkbox"/> Check windshield washer fluid level
<input type="checkbox"/> Inspect engine air cleaner elements	<input type="checkbox"/> Drain, flush, and refill fuel tank
<input type="checkbox"/> Check and clean heating and air conditioner housing	<input type="checkbox"/> Clean debris from coupler lock cylinder (if equipped)
<input type="checkbox"/> Service exhaust filter	<input type="checkbox"/> Clean debris from diesel exhaust fluid (DEF) spill guard
<input type="checkbox"/> Clean and tighten battery terminals	<input type="checkbox"/> Inspect or replace outer pin seals
Every 10 Hours or Daily	
<input type="checkbox"/> Clean air cleaner dust unloader valve	<input type="checkbox"/> Check coolant level at surge tank
<input type="checkbox"/> Check engine oil level	<input type="checkbox"/> Check hydraulic system oil level
<input type="checkbox"/> Check transmission oil level	
Initial Service - 100 Hours	
<input type="checkbox"/> Replace axle oil filter (if equipped)	
Every 100 Hours	
<input type="checkbox"/> Lubricate loader linkage and cylinder pivots	
Every 250 Hours	
<input type="checkbox"/> Take engine oil sample	
Every 500 Hours	
<input type="checkbox"/> Drain and refill engine oil and replace filter ³	<input type="checkbox"/> Replace final fuel filter
<input type="checkbox"/> Replace primary fuel filter with water separator	<input type="checkbox"/> Lubricate front and rear shaft seals on park brake
<input type="checkbox"/> Check park brake oil level	<input type="checkbox"/> Take axle oil sample
<input type="checkbox"/> Lubricate front and rear axle shaft seals	<input type="checkbox"/> Take hydraulic oil sample
<input type="checkbox"/> Take transmission oil sample	<input type="checkbox"/> Take diesel fuel sample
<input type="checkbox"/> Take park brake oil sample	<input type="checkbox"/> Replace hydraulic reservoir breather filter
<input type="checkbox"/> Take engine coolant sample	<input type="checkbox"/> Check front and rear axle oil level
<input type="checkbox"/> Check air intake hoses and charge air cooler tube couplings	<input type="checkbox"/> Check ride control accumulator (if equipped)
<input type="checkbox"/> Lubricate driveline upper and lower sliding joints and U-joints	
Every 1000 Hours	
<input type="checkbox"/> Replace air cleaner dust unloader valve	<input type="checkbox"/> Replace engine air cleaner elements
<input type="checkbox"/> Check coolant condition	<input type="checkbox"/> Replace axle oil filter (if equipped)
<input type="checkbox"/> Lubricate frame hinge pivots	<input type="checkbox"/> Drain and refill park brake oil ³

Service Intervals

Service Intervals—L Engine	
<input type="checkbox"/> Clean hydraulic fan drive case drain in-line filter	
Every 2000 Hours	
<input type="checkbox"/> Drain and refill transmission oil and replace filter ^{2, 3}	<input type="checkbox"/> Drain and refill front and rear axle oil ³
<input type="checkbox"/> Check and adjust engine valve lash	<input type="checkbox"/> Replace fuel tank breather filter
<input type="checkbox"/> Rerun transmission clutch calibration	<input type="checkbox"/> Replace open crankcase ventilation (OCV) filter
Every 4000 Hours	
<input type="checkbox"/> Drain, flush, and refill hydraulic system oil ³	<input type="checkbox"/> Clean hydraulic pump case drain in-line filter
<input type="checkbox"/> Replace hydraulic system return filter	<input type="checkbox"/> Replace diesel exhaust fluid (DEF) dosing unit filter ⁵
<input type="checkbox"/> Clean hydraulic system fill strainer	<input type="checkbox"/> Replace diesel exhaust fluid (DEF) tank breather filter
<input type="checkbox"/> Access diesel exhaust fluid (DEF) dosing unit filter—L Engine	
Every 5000 Hours	
<input type="checkbox"/> Check driveline damper for cracks	
Every 6000 Hours	
<input type="checkbox"/> Drain and refill cooling system	<input type="checkbox"/> Replace diesel exhaust fluid (DEF) in-line filter ⁵