

Machine Id JOHN DEERE 1FF350GXPJF812880 Component Left Final Drive Fluid JOHN DEERE GL-5 80W90 (4 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

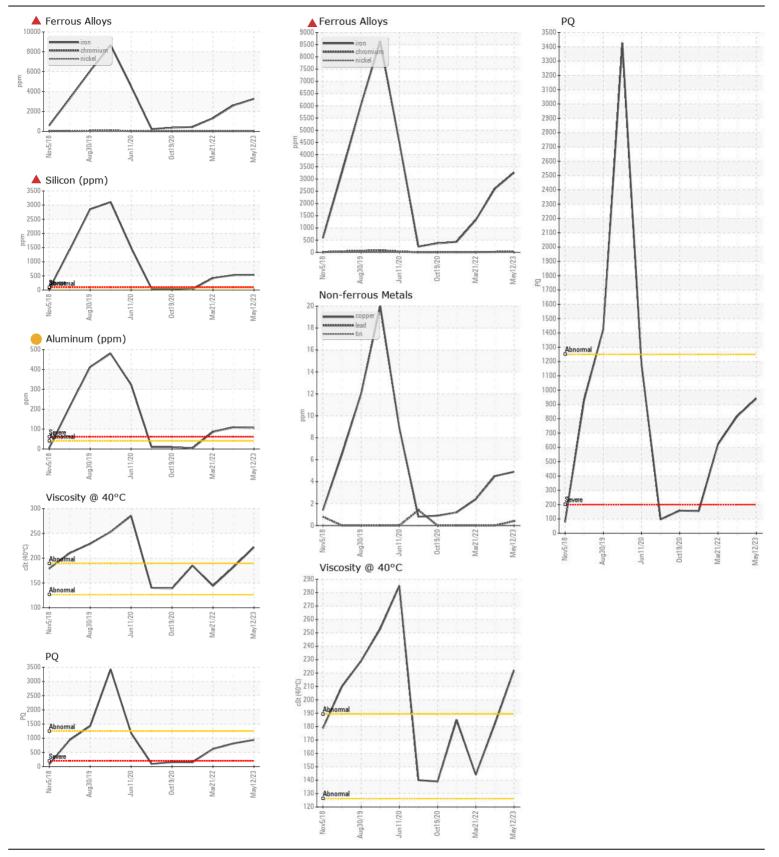
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0172930	JR0132570	JR0122968
Sample Date		Client Info		12 May 2023	14 Oct 2022	21 Mar 2022
Machine Age	hrs	Client Info		5476	4967	4487
Oil Age	hrs	Client Info		0	4967	4487
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
DO			1050	0.44	010	
PQ	10.10.100	ASTM D8184	>1250	941	816	620
Iron	ppm	ASTM D5185m	>750		2601	▲ 1320 0
Chromium	ppm	ASTM D5185m	>9	▲ 21 E	17	8
Nickel	ppm	ASTM D5185m	>10	5	2	0
Titanium	ppm	ASTM D5185m		10	11	8
Silver	ppm	ASTM D5185m	40	0	0	0
Aluminum	ppm	ASTM D5185m	>40	106	0 109	86
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	5	4	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	MODER	MODER	MODER
	aaalar					
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	NONE 536	NONE ▲ 527	▲ 425
Silicon	ppm	ASTM D5185m	>75	▲ 536	5 27	425
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>75 >20	▲ 536 25	▲ 527 25	▲ 42521
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>75 >20 >0.075	▲ 536 25 NEG	▲ 527 25 NEG	▲ 425 21 NEG
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>75 >20 >0.075 NONE	 536 25 NEG NONE 	 527 25 NEG NONE 	 425 21 NEG NONE
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>75 >20 >0.075 NONE NONE	 536 25 NEG NONE NONE 	 527 25 NEG NONE NONE 	 425 21 NEG NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>75 >20 >0.075 NONE NONE NONE	 536 25 NEG NONE NONE NONE 	 527 25 NEG NONE NONE NONE 	 425 21 NEG NONE NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>75 >20 >0.075 NONE NONE NONE NORML	 536 25 NEG NONE NONE NONE NORML 	 527 25 NEG NONE NONE NONE NORML 	 425 21 NEG NONE NONE NONE NORE
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>75 >20 >0.075 NONE NONE NONE NORML	 536 25 NEG NONE NONE NORE NORML NORML NEG 	 527 25 NEG NONE NONE NONE NORE NORML NORML 	 425 21 NEG NONE NONE NONE NORML NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NONE NORE NORML NORML 	 527 25 NEG NONE NONE NORML NORML NEG 	 425 21 NEG NONE NONE NORML NORML NEG
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NONE NORML NORML NEG 5 	 527 25 NEG NONE NONE NORML NORML NEG 4 	 425 21 NEG NONE NONE NORML NORML NEG <1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NONE NORML NORML NEG 5 4 	 527 25 NEG NONE NONE NORML NORML NEG 4 <1 	 425 21 NEG NONE NONE NORML NORML NEG <1 3
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NONE NORML NORML NEG 5 4 1 	 527 25 NEG NONE NONE NORML NORML NORML NEG 4 <1 0 	 425 21 NEG NONE NONE NORML NORML NEG <1 3 0
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar gpm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NONE NORML NORML NEG 5 4 1 2 	 527 25 NEG NONE NONE NORML NORML NEG 4 <1 0 2 	 425 21 NEG NONE NONE NORML NORML NEG <1 3 0 1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NONE NORML NORML NEG 5 4 1 2 20 	 527 25 NEG NONE NONE NORML NORML NEG 4 <1 0 2 16 	 425 21 NEG NONE NONE NORML NORML NEG <1 3 0 1 9
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NONE NORML NORML NEG 5 4 1 2 20 12 	 527 25 NEG NONE NONE NORML NORML NORML NEG 4 <1 0 2 16 12 	 425 21 NEG NONE NONE NORML NORML NEG <1 3 0 1 9 9
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NORE NORML NORML NEG 5 4 1 2 20 12 41 	 527 25 NEG NONE NONE NORML NORML NEG 4 <1 0 2 16 12 21 	 425 21 NEG NONE NONE NORML NORML NEG <1 3 0 1 9 9 16
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NONE NORML NORML NEG 5 4 1 2 20 12 41 244 19 	 527 25 NEG NONE NONE NORML NORML NEG 4 <1 0 2 16 12 21 283 	 425 21 NEG NONE NORML NORML NEG <1 3 0 1 9 9 16 307
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 536 25 NEG NONE NONE NORML NORML NEG 5 4 1 2 20 12 41 244 	 527 25 NEG NONE NONE NORML NORML NORML Q 4 <1 0 2 16 12 21 283 13 	 425 21 NEG NONE NONE NORML NORML NEG 3 0 1 9 9 16 307 7



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 FITZGERALD EXCAVATING Laboratory Sample No. : JR0172930 PO BOX 2168 Received : 15 May 2023 WINCHESTER, VA Lab Number : 05847389 Tested : 17 May 2023 : 17 May 2023 - Don Baldridge Unique Number : 10471496 US 22604 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: Service Manager Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T:

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