

WEAR SEVERE CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Store 8 - Pikeville [RO#126766] Machine Id PRINOTH T14R 935310213

Left Final Drive

JOHN DEERE GL-5 80W90 (1 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. 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. Bearing and/or bushing wear is indicated.

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CONTAMINATION

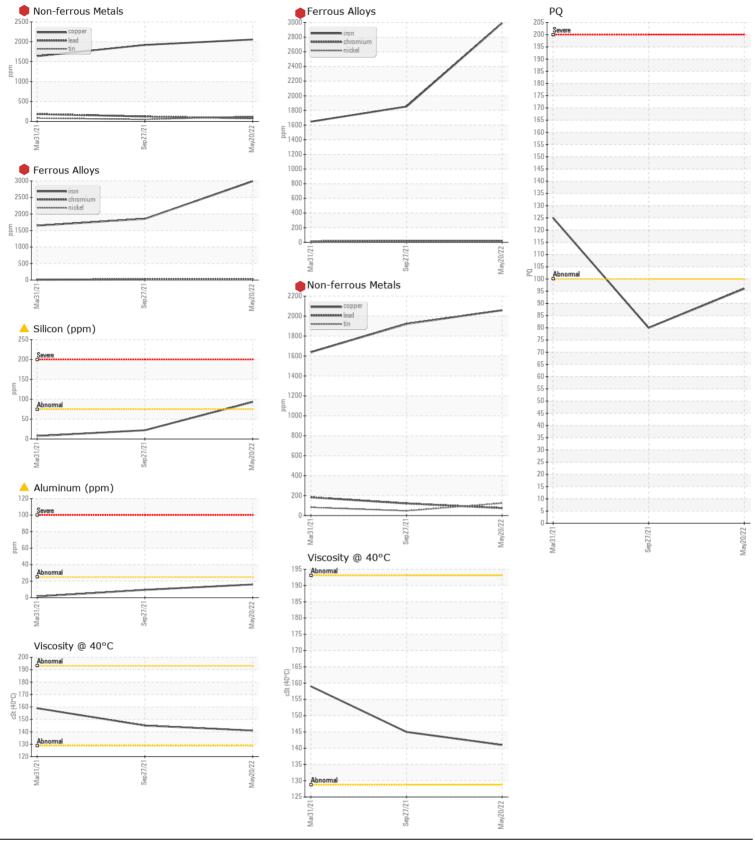
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0029403	LEC0025190	LEC0019473
Sample Date		Client Info		20 May 2022	27 Sep 2021	31 Mar 2021
Machine Age	hrs	Client Info		1351	959	620
Oil Age	hrs	Client Info		392	339	620
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	None	N/A
Sample Status				SEVERE	SEVERE	SEVERE
DO					00	105
PQ		ASTM D8184	500	96	80	125
Iron	ppm	ASTM D5185m	>500	2990	1853	• 1647
Chromium	ppm	ASTM D5185m	>10	▲ 22 -	▲ 22 ⊑	▲ 13
Nickel	ppm	ASTM D5185m		5	5	1
Titanium	ppm	ASTM D5185m		2	1	<1
Silver	ppm	ASTM D5185m	05	0	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ 16	10	2
Lead	ppm	ASTM D5185m	>25	▲ 75	 121 1001 	183
Copper	ppm	ASTM D5185m	>50	2058	1921	1638
Tin	ppm	ASTM D5185m	>10	1 24	47	82
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	4 93	22	8
			00			
Potassium	ppm	ASTM D5185m	>20	4	2	9
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2	4 NEG	2 NEG	9 NEG
	ppm scalar			-	_	
Water		WC Method	>0.2	NEG	NEG	NEG
Water Silt	scalar	WC Method *Visual	>0.2 NONE	NEG NONE	NEG NONE	NEG NONE
Water Silt Debris	scalar scalar	WC Method *Visual *Visual	>0.2 NONE NONE	NEG NONE NONE	NEG NONE NONE	NEG NONE NONE
Water Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>0.2 NONE NONE NONE	NEG NONE NONE NONE	NEG NONE NONE NONE	NEG NONE NONE NONE
Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>0.2 NONE NONE NORE	NEG NONE NONE NONE NORML	NEG NONE NONE NONE NORML	NEG NONE NONE NORE
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG 5
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG <1 5	NEG NONE NONE NORML NORML NEG <1 7	NEG NONE NONE NORML NORML NEG 5 3
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG <1 5 0	NEG NONE NONE NORML NORML NEG <1 7 1	NEG NONE NONE NORML NORML NEG 5 3 <1
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG <1 5 0 1	NEG NONE NONE NORML NORML NEG <1 7 1 2	NEG NONE NONE NORML NORML NEG 5 3 <1 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG <1 5 0 1 1 17	NEG NONE NONE NORML NORML NEG <1 7 1 7 1 1 <1 11	NEG NONE NONE NORML NORML NEG 5 3 <1 0 8
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG <1 5 0 1 17 4	NEG NONE NONE NORML NORML NORML NEG <1 7 1 <1 1 <1 1 <1 2	NEG NONE NONE NORML NORML NORML NEG 5 3 <1 0 8 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG <1 5 0 1 17 4 26	NEG NONE NONE NORML NORML NORML NORML 1 1 1 11 2 11	NEG NONE NONE NORML NORML NEG 5 3 <1 0 8 0 21
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG <1 5 0 1 17 4 26 307	NEG NONE NONE NORML NORML NORML NORML NORML 1 7 1 11 2 11 2 11 278	NEG NONE NONE NONE NORML NORML NORML NORML 0 8 0 21 232
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Malybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG <1 5 0 1 17 4 26 307 37	NEG NONE NONE NORML NORML NEG <1 7 1 <1 1 <2 11 2 11 278 17	NEG NONE NONE NORML NORML NEG 5 3 <11 0 8 0 21 232 34
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG <1 5 0 1 17 4 26 307	NEG NONE NONE NORML NORML NORML NORML NORML 1 7 1 11 2 11 2 11 278	NEG NONE NONE NONE NORML NORML NORML NORML S 3 <1 0 8 0 21 232

Submitted By: STORE 2 - BEAVER - CASEY TONEY



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 H. Recieved : 23 May 2022 105 TENNIS CENTER DR. Sample No. : LEC0029403 Lab Number : 05551604 Diagnosed : 25 May 2022 MARIETTA, OH : 9985971 Diagnostician : Don Baldridge US 45750-9765 **Unique Number** Test Package : CONST (Additional Tests: PQ) Contact: LEANNE KENDALL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. KendalLeanne@lec1.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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