



OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Store 1 - Cowen [RO#150387]**  
 Machine Id  
**JOHN DEERE 748L II 1DW748LBTMF711946**  
 Component  
**Wet Disc Brake**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (27 Oz)**

**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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0048757</b>	LEC0042209	LEC0034794
Sample Date		Client Info		<b>07 May 2024</b>	23 Oct 2023	29 Sep 2022
Machine Age	hrs	Client Info		<b>2631</b>	2064	1122
Oil Age	hrs	Client Info		<b>1509</b>	942	1122
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	SEVERE	SEVERE

**WEAR**

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184		<b>50</b>	53	47
Iron	ppm	ASTM D5185m	>20	<b>▲ 192</b>	▲ 158	▲ 161
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	6
Titanium	ppm	ASTM D5185m		<b>2</b>	2	8
Silver	ppm	ASTM D5185m		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<b>3</b>	3	2
Lead	ppm	ASTM D5185m	>10	<b>7</b>	7	16
Copper	ppm	ASTM D5185m	>75	<b>2</b>	<1	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

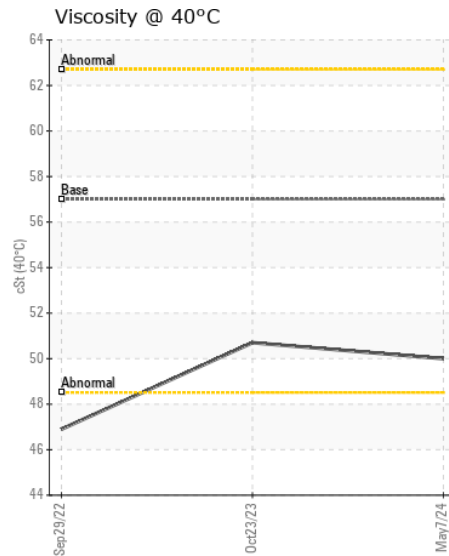
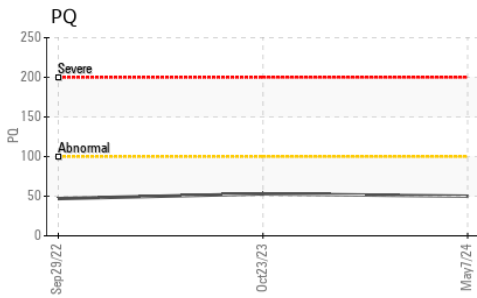
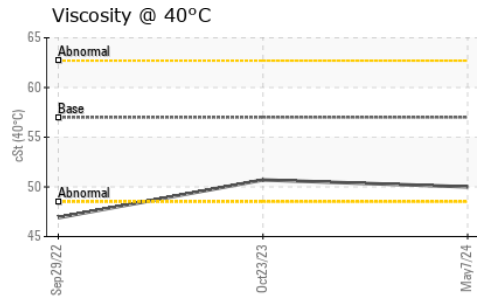
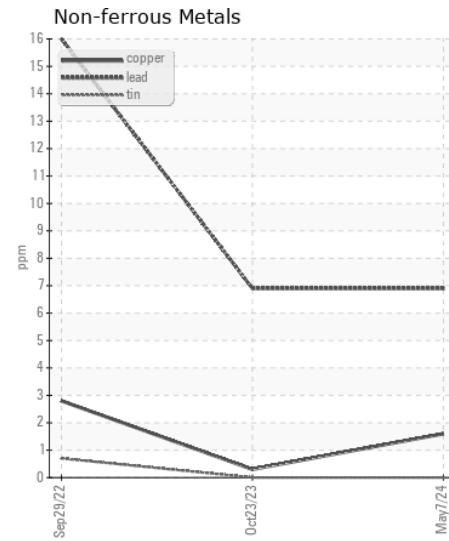
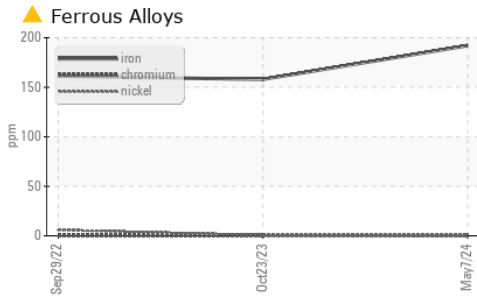
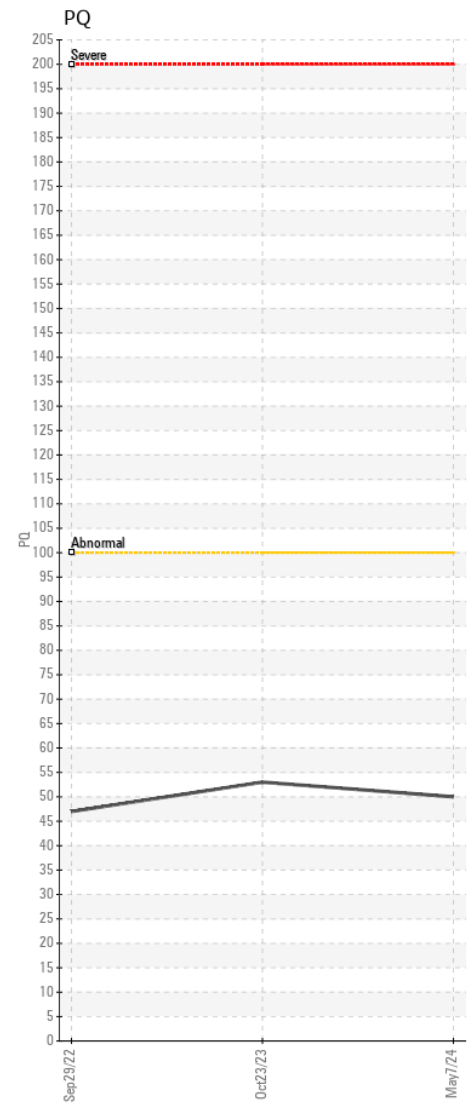
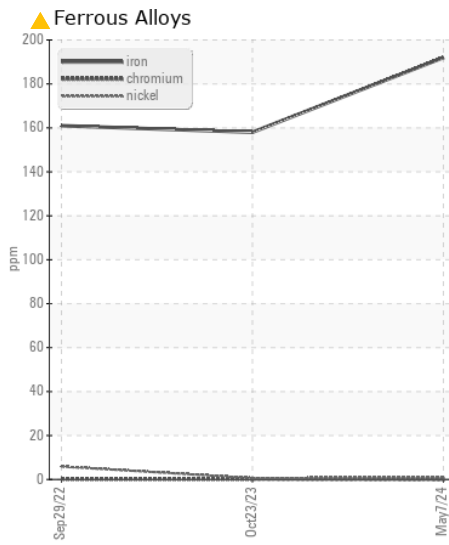
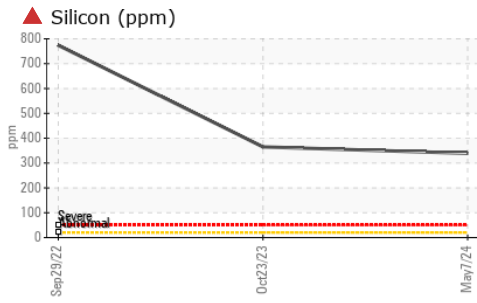
Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Silicon	ppm	ASTM D5185m	>20	<b>▲ 339</b>	▲ 365	▲ 774
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	5	7
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>26</b>	19	31
Boron	ppm	ASTM D5185m	6	<b>56</b>	53	157
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>94</b>	100	261
Manganese	ppm	ASTM D5185m		<b>2</b>	2	3
Magnesium	ppm	ASTM D5185m	145	<b>164</b>	230	534
Calcium	ppm	ASTM D5185m	3570	<b>2845</b>	2781	1291
Phosphorus	ppm	ASTM D5185m	1290	<b>916</b>	988	741
Zinc	ppm	ASTM D5185m	1640	<b>1075</b>	1169	791
Sulfur	ppm	ASTM D5185m		<b>3296</b>	3392	2702
Visc @ 40°C	cSt	ASTM D445	57.0	<b>50.0</b>	50.7	46.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0048757 **Received** : 10 May 2024  
**Lab Number** : 06176347 **Tested** : 13 May 2024  
**Unique Number** : 11022400 **Diagnosed** : 14 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
 F: (740)373-5570