



# OIL ANALYSIS REPORT

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



Area  
**Store 3 - Norton**  
Machine Id  
**JOHN DEERE 748L2 1DW748LBJKF696124**  
Component  
**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 fluid 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0047386</b>	LEC0025961	LEC0021818
Sample Date		Client Info		<b>11 Apr 2024</b>	30 Nov 2021	22 Apr 2021
Machine Age	hrs	Client Info		<b>6503</b>	3246	2275
Oil Age	hrs	Client Info		<b>500</b>	971	717
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	NORMAL	NORMAL

## WEAR

Gear wear is indicated.

PQ		ASTM D8184		<b>▲ 437</b>	30	49
Iron	ppm	ASTM D5185m	>350	<b>▲ 4121</b>	58	113
Chromium	ppm	ASTM D5185m	>5	<b>▲ 10</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>12</b>	0	0
Titanium	ppm	ASTM D5185m		<b>6</b>	<1	2
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>8	<b>● 70</b>	1	3
Lead	ppm	ASTM D5185m	>10	<b>3</b>	2	2
Copper	ppm	ASTM D5185m	>150	<b>9</b>	9	4
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

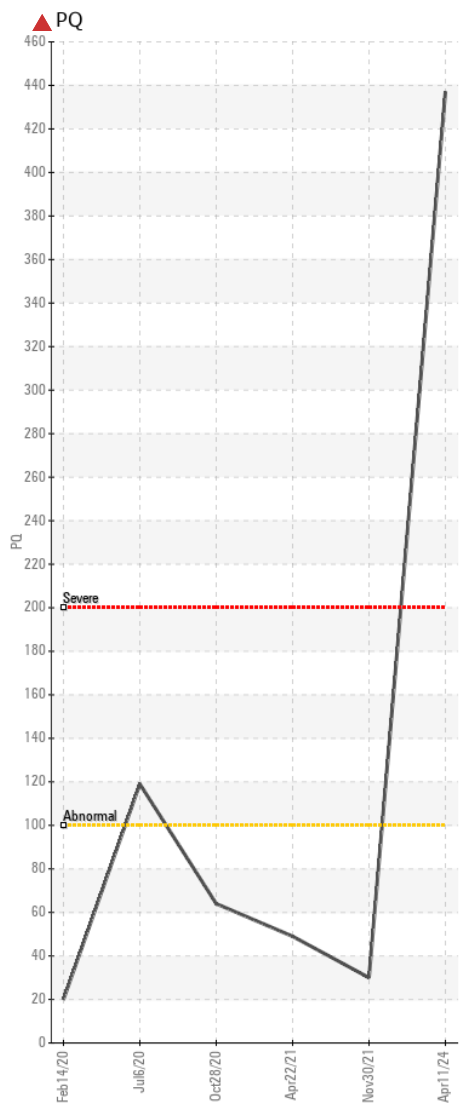
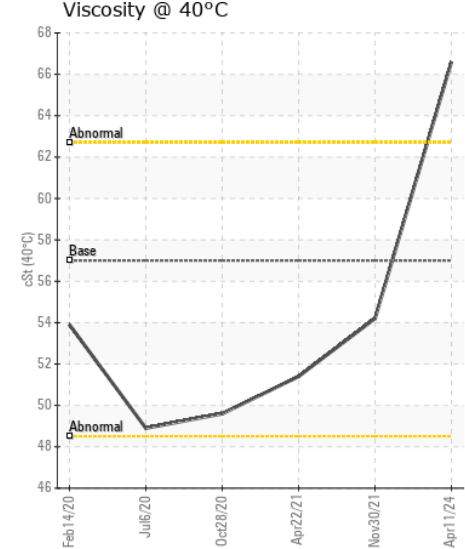
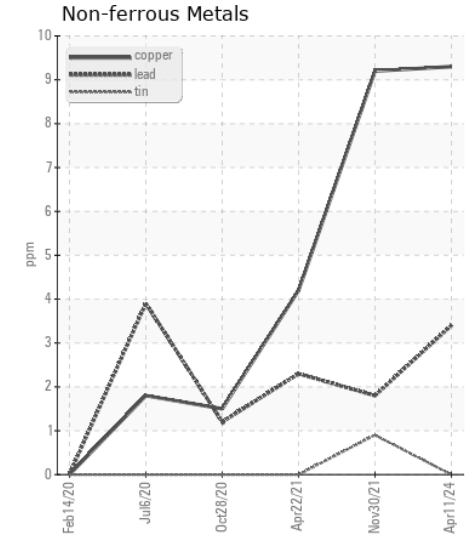
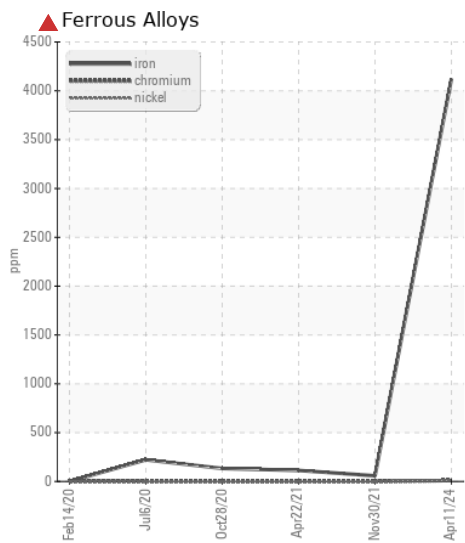
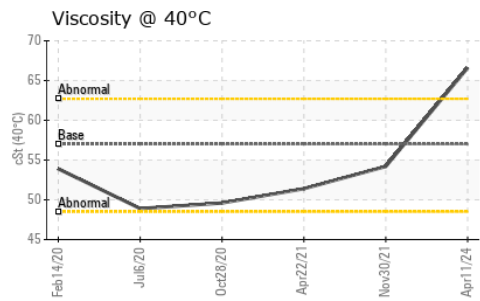
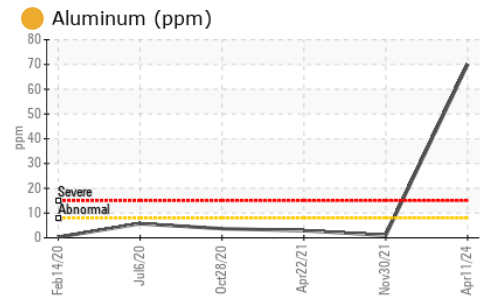
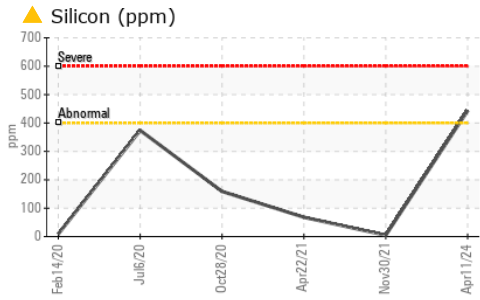
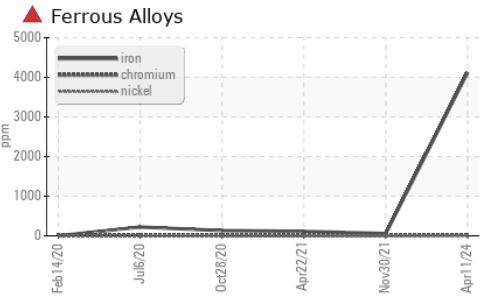
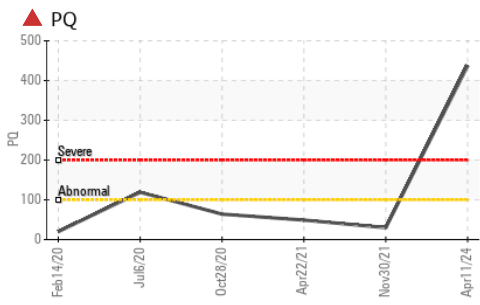
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>400	<b>▲ 443</b>	5	68
Potassium	ppm	ASTM D5185m	>20	<b>55</b>	0	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</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	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>53</b>	2	22
Boron	ppm	ASTM D5185m	6	<b>41</b>	0	30
Barium	ppm	ASTM D5185m	0	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>62</b>	<1	12
Manganese	ppm	ASTM D5185m		<b>35</b>	<1	2
Magnesium	ppm	ASTM D5185m	145	<b>59</b>	102	161
Calcium	ppm	ASTM D5185m	3570	<b>1347</b>	3533	3529
Phosphorus	ppm	ASTM D5185m	1290	<b>727</b>	973	969
Zinc	ppm	ASTM D5185m	1640	<b>278</b>	1187	1219
Sulfur	ppm	ASTM D5185m		<b>3265</b>	2932	3996
Visc @ 40°C	cSt	ASTM D445	57.0	<b>66.6</b>	54.2	51.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047386  
**Lab Number** : 06149690  
**Unique Number** : 10979768  
**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 15 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Jonathan Hester

**FISHER LOGGING**  
 HC 77 BOX 9D  
 BARTOW, WV  
 US 24920  
 Contact:

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: