



Machine Id  
**JOHN DEERE 750L 1T0750LXCMF401593**  
Component  
**Right Outer Final Drive**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (17 QTS)**

**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 recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0206233</b>	JR0007357	---
Sample Date		Client Info		<b>15 Apr 2024</b>	16 Mar 2022	---
Machine Age	hrs	Client Info		<b>102078</b>	824	---
Oil Age	hrs	Client Info		<b>102078</b>	824	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>SEVERE</b>	ABNORMAL	---

**WEAR**

Aluminum ppm levels are abnormal.

PQ		ASTM D8184	>1250	<b>287</b>	154	---
Iron	ppm	ASTM D5185m	>750	<b>310</b>	178	---
Chromium	ppm	ASTM D5185m	>9	<b>2</b>	2	---
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>4</b>	2	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>40	<b>54</b>	21	---
Lead	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m	>40	<b>1</b>	<1	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

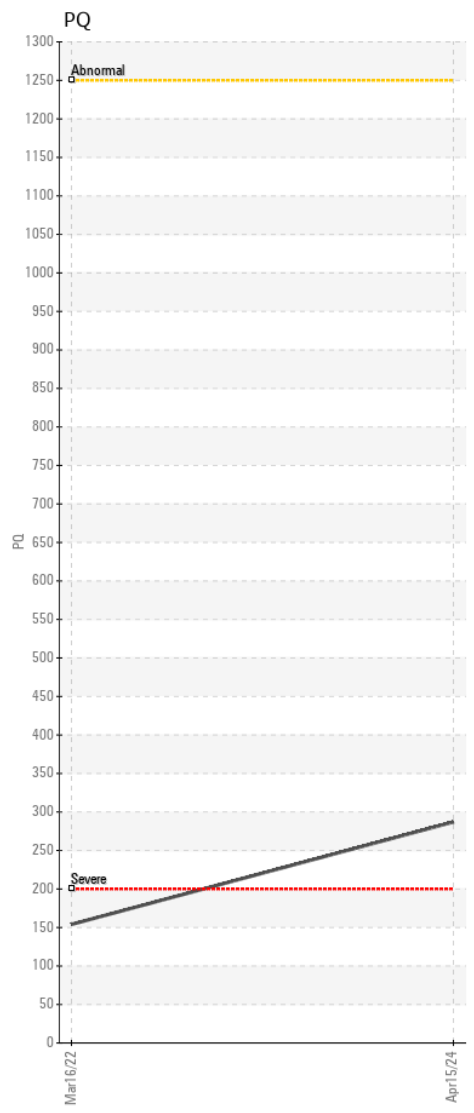
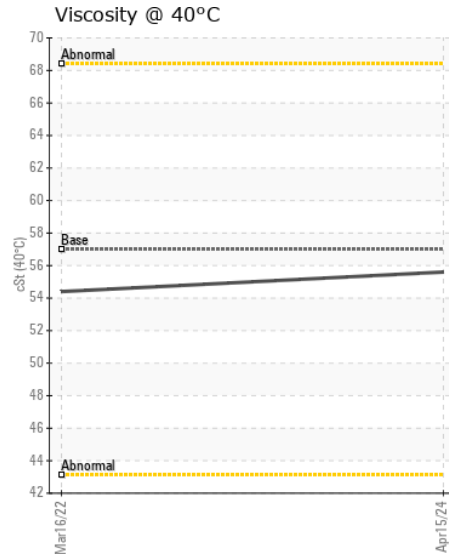
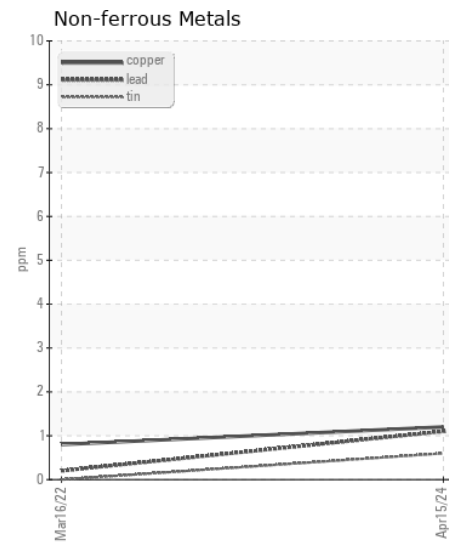
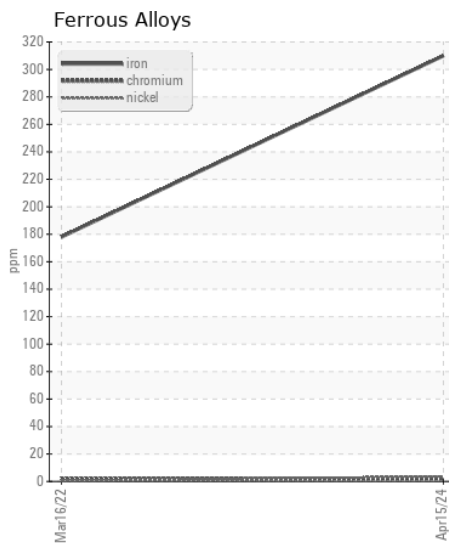
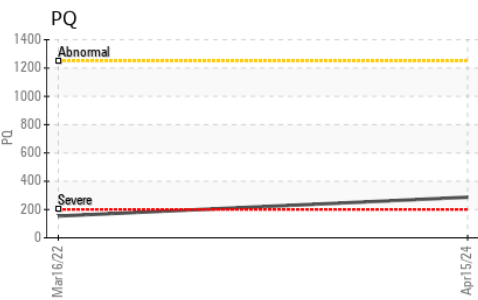
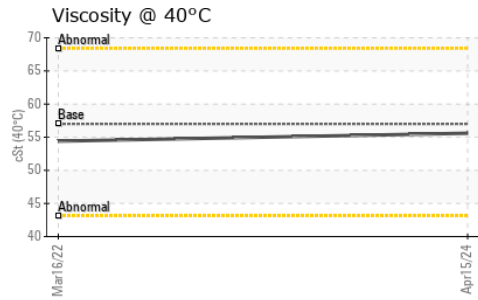
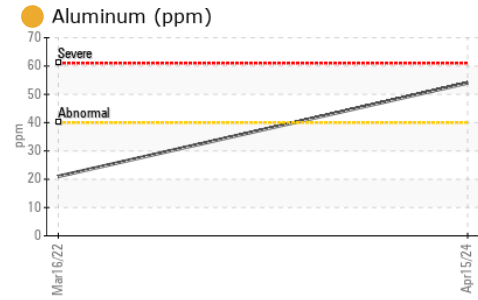
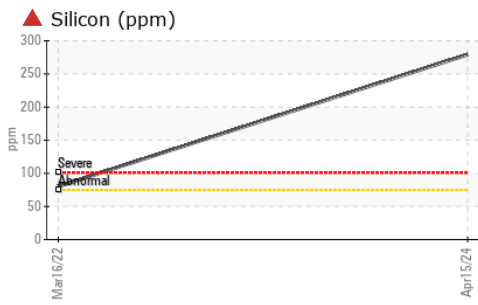
High concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

Silicon	ppm	ASTM D5185m	>75	<b>279</b>	80	---
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	9	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m	>51	<b>7</b>	4	---
Boron	ppm	ASTM D5185m	6	<b>0</b>	2	---
Barium	ppm	ASTM D5185m	0	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>3</b>	2	---
Magnesium	ppm	ASTM D5185m	145	<b>97</b>	114	---
Calcium	ppm	ASTM D5185m	3570	<b>3436</b>	3798	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1049</b>	1144	---
Zinc	ppm	ASTM D5185m	1640	<b>1213</b>	1390	---
Sulfur	ppm	ASTM D5185m		<b>3888</b>	3619	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>55.6</b>	54.4	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0206233 **Received** : 18 Apr 2024  
**Lab Number** : 06153419 **Tested** : 19 Apr 2024  
**Unique Number** : 10983497 **Diagnosed** : 22 Apr 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: CHARLOTTE SHOP  
 myoung@jamesriverequipment.com  
 T: (704)597-0211  
 F: (704)596-6198

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