



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

Area  
**[FALLING OAK]**

Machine Id  
**JOHN DEERE 748L 715611**

Component  
**Hydraulic System**

Fluid  
**{not provided} (--- QTS)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0222037</b>	JR0209531	JR0164612
Sample Date		Client Info		<b>16 Jul 2024</b>	19 Mar 2024	06 Dec 2023
Machine Age	hrs	Client Info		<b>3535</b>	3189	2562
Oil Age	hrs	Client Info		<b>0</b>	0	2562
Filter Age	hrs	Client Info		<b>0</b>	0	2562
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>10</b>	8	4
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	3	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>1</b>	2	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

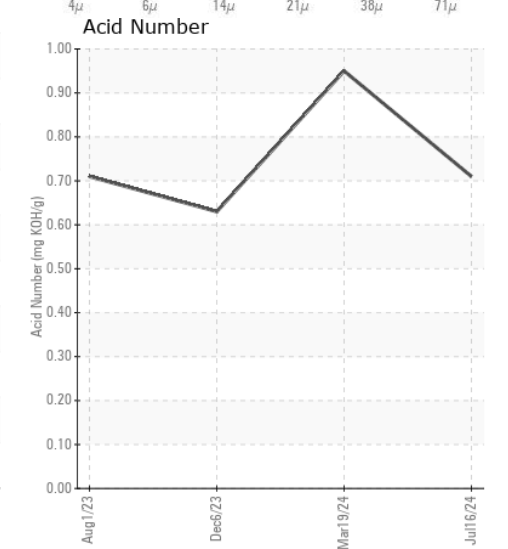
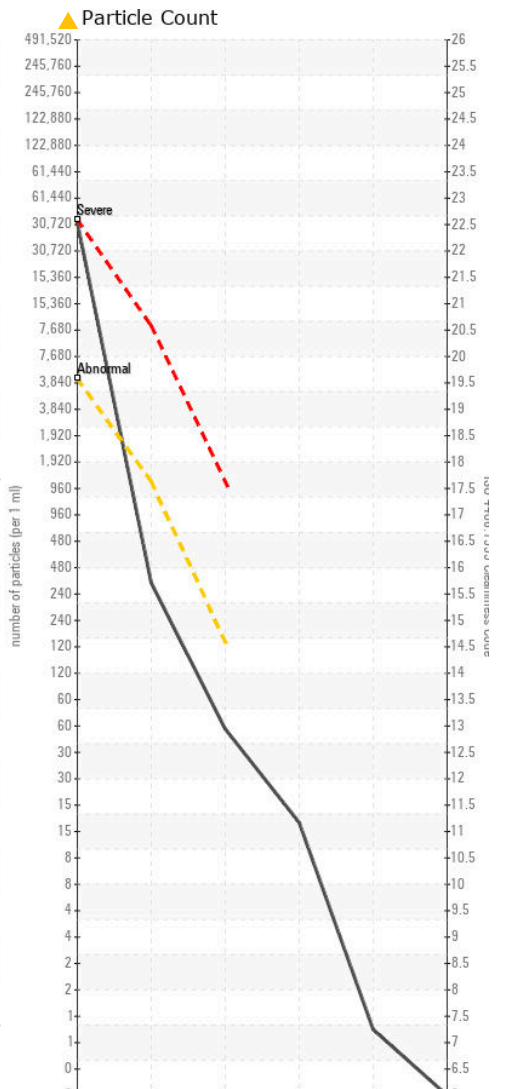
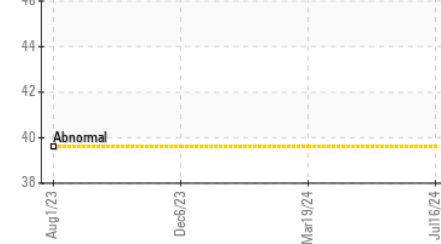
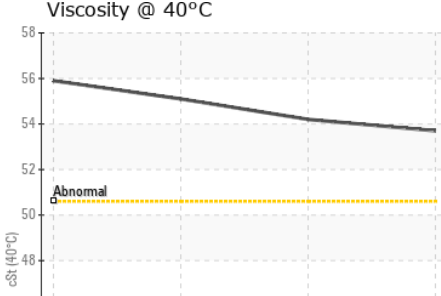
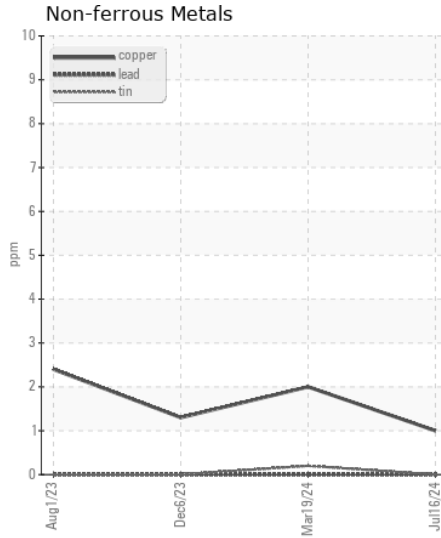
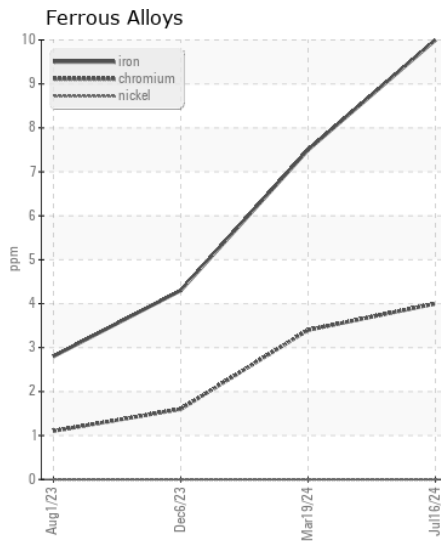
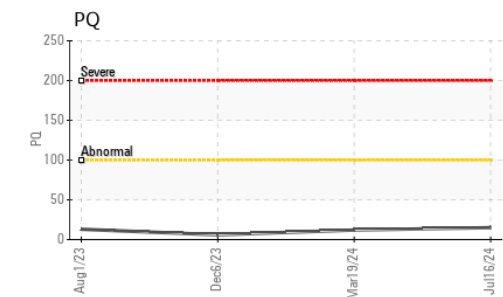
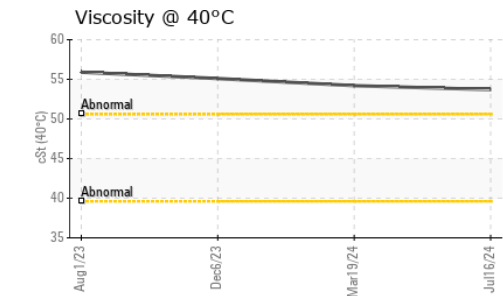
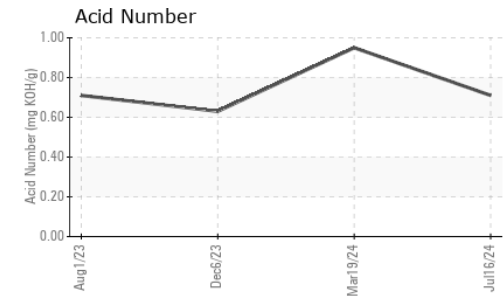
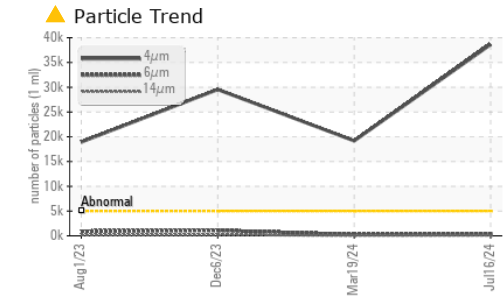
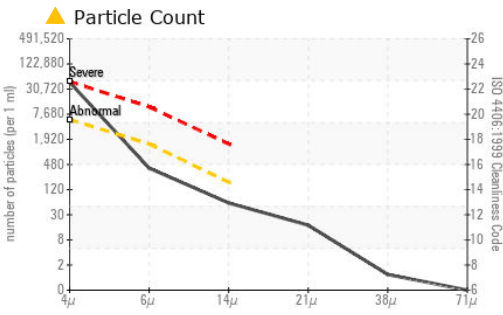
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>12</b>	11	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 38636</b>	▲ 19173	▲ 29545
Particles >6µm		ASTM D7647	>1300	<b>345</b>	254	▲ 1100
Particles >14µm		ASTM D7647	>160	<b>51</b>	26	▲ 167
Particles >21µm		ASTM D7647	>40	<b>15</b>	7	▲ 55
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	2
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 22/16/13</b>	▲ 21/15/12	▲ 22/17/15
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	3
Molybdenum	ppm	ASTM D5185m		<b>0</b>	1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>5</b>	4	4
Calcium	ppm	ASTM D5185m		<b>295</b>	289	227
Phosphorus	ppm	ASTM D5185m		<b>694</b>	667	649
Zinc	ppm	ASTM D5185m		<b>881</b>	886	868
Sulfur	ppm	ASTM D5185m		<b>2034</b>	1997	1861
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.71</b>	0.95	0.63
Visc @ 40°C	cSt	ASTM D445		<b>53.7</b>	54.2	55.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0222037 **Received** : 19 Jul 2024  
**Lab Number** : 06241586 **Tested** : 22 Jul 2024  
**Unique Number** : 11130420 **Diagnosed** : 22 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
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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)