



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>JR0209531</b>	JR0164612	JR0165174
Sample Date		Client Info		<b>19 Mar 2024</b>	06 Dec 2023	01 Aug 2023
Machine Age	hrs	Client Info		<b>3189</b>	2562	1797
Oil Age	hrs	Client Info		<b>0</b>	2562	0
Filter Age	hrs	Client Info		<b>0</b>	2562	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>12</b>	6	13
Iron	ppm	ASTM D5185m	>20	<b>8</b>	4	3
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	2	1
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>2</b>	1	2
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

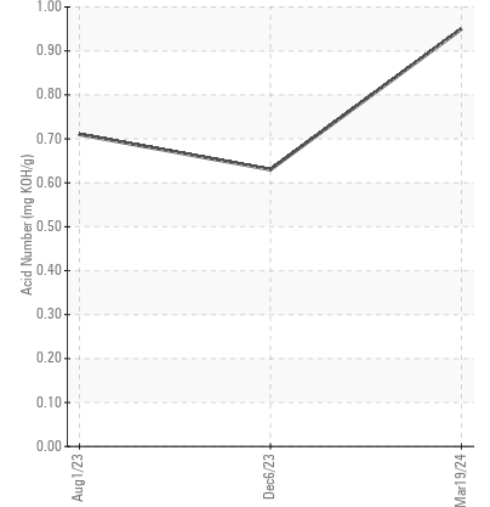
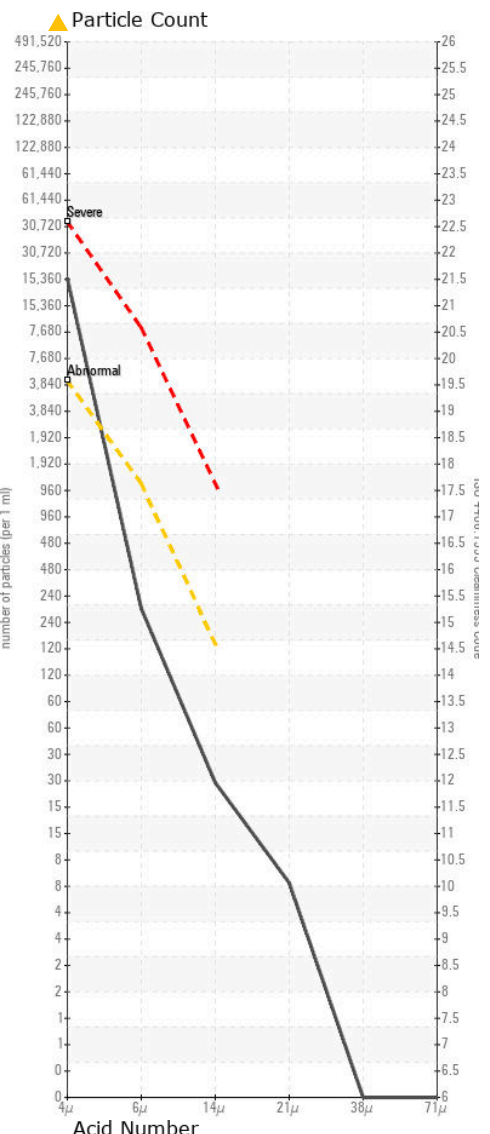
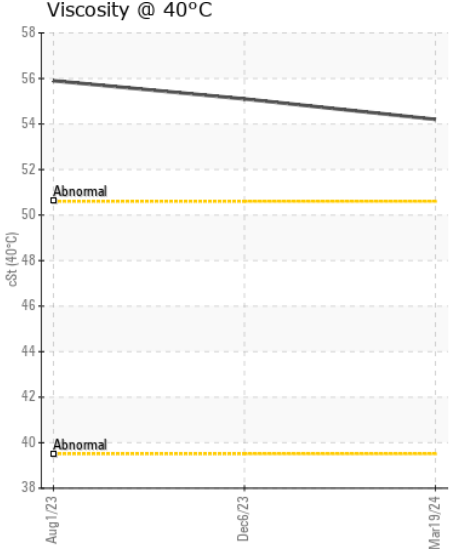
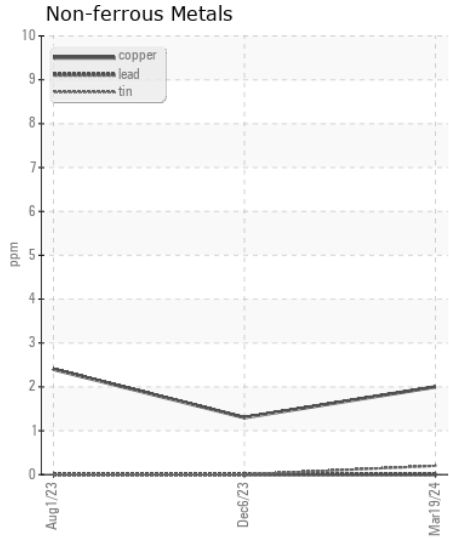
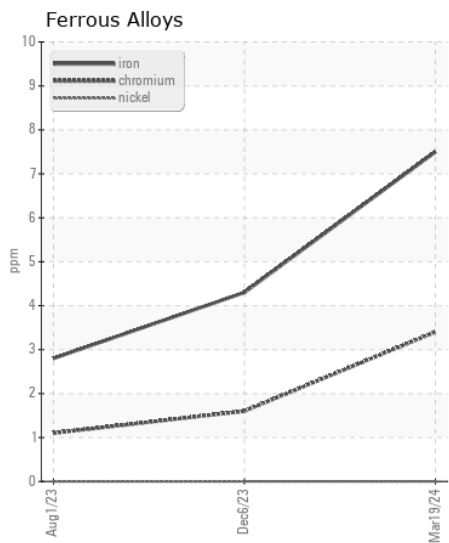
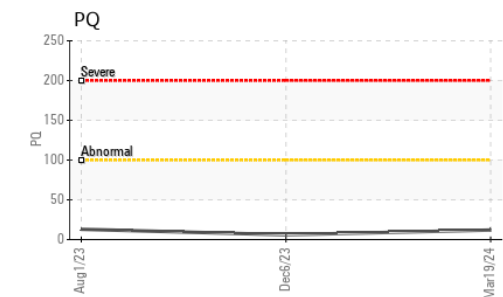
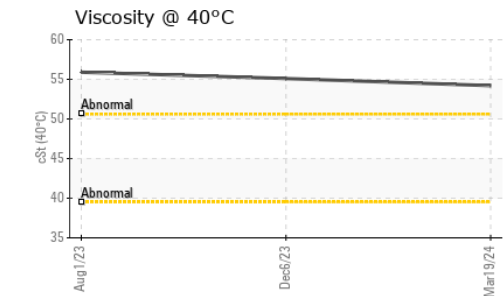
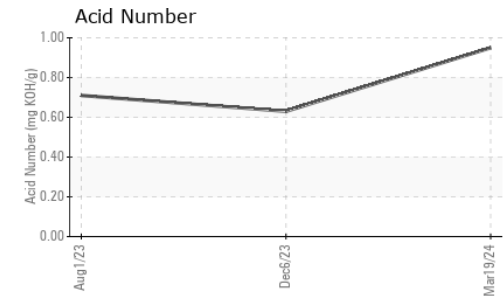
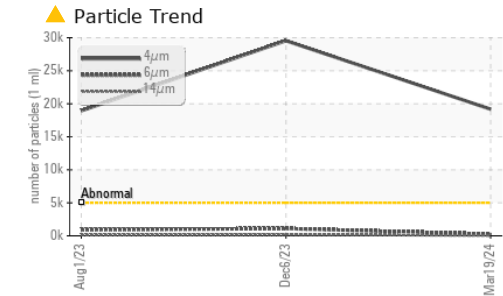
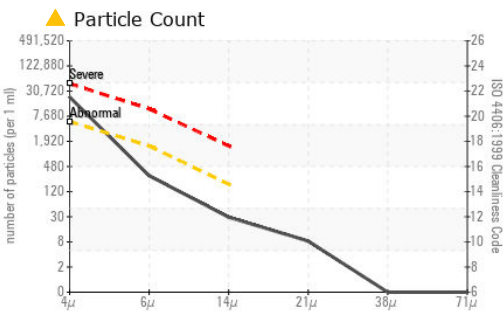
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>11</b>	9	11
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 19173</b>	▲ 29545	▲ 18936
Particles >6µm		ASTM D7647	>1300	<b>254</b>	▲ 1100	927
Particles >14µm		ASTM D7647	>160	<b>26</b>	▲ 167	118
Particles >21µm		ASTM D7647	>40	<b>7</b>	▲ 55	35
Particles >38µm		ASTM D7647	>10	<b>0</b>	2	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/15/12</b>	▲ 22/17/15	▲ 21/17/14
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>1</b>	0	1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>4</b>	4	0
Calcium	ppm	ASTM D5185m		<b>289</b>	227	131
Phosphorus	ppm	ASTM D5185m		<b>667</b>	649	703
Zinc	ppm	ASTM D5185m		<b>886</b>	868	941
Sulfur	ppm	ASTM D5185m		<b>1997</b>	1861	2144
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.95</b>	0.63	0.71
Visc @ 40°C	cSt	ASTM D445		<b>54.2</b>	55.1	55.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209531 **Received** : 21 Mar 2024  
**Lab Number** : 06124804 **Tested** : 22 Mar 2024  
**Unique Number** : 10938955 **Diagnosed** : 24 Mar 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)