



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

Area  
**[DERRICK CORDON]**  
 Machine Id  
**JOHN DEERE 748L-II 1DW748LBJNF716165**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### 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>JR0209534</b>	JR0164583	JR0158379
Sample Date		Client Info		<b>09 Apr 2024</b>	16 Nov 2023	27 Feb 2023
Machine Age	hrs	Client Info		<b>2129</b>	1766	503
Oil Age	hrs	Client Info		<b>0</b>	1766	503
Filter Age	hrs	Client Info		<b>0</b>	1766	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	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>18</b>	12	11
Iron	ppm	ASTM D5185m	>20	<b>8</b>	10	0
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>75	<b>2</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

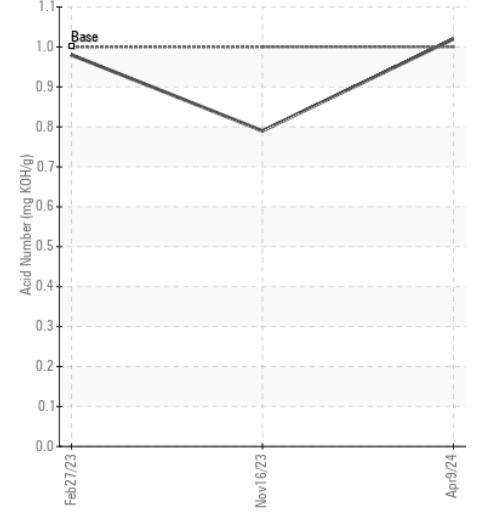
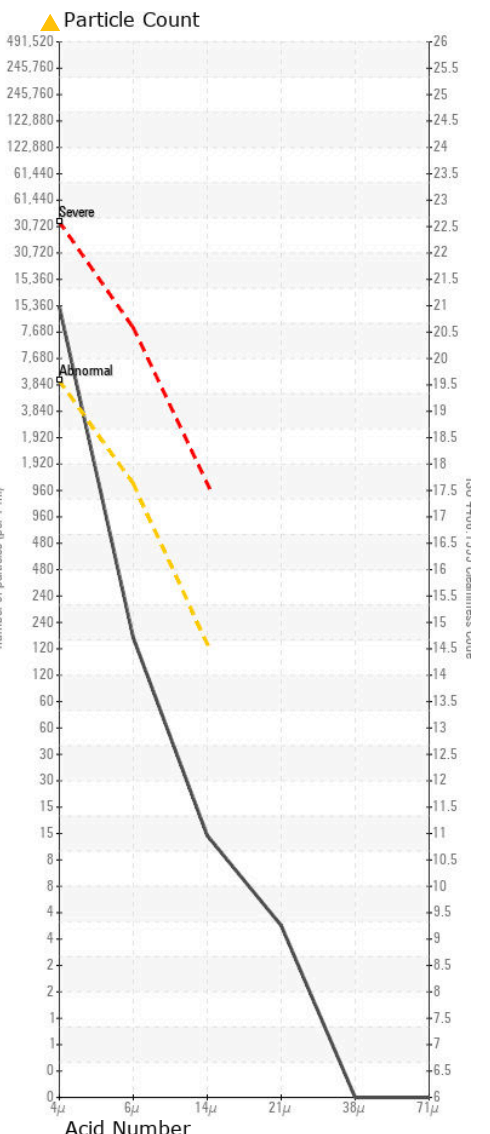
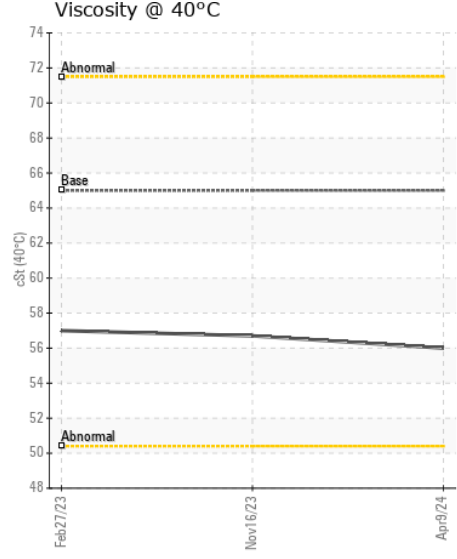
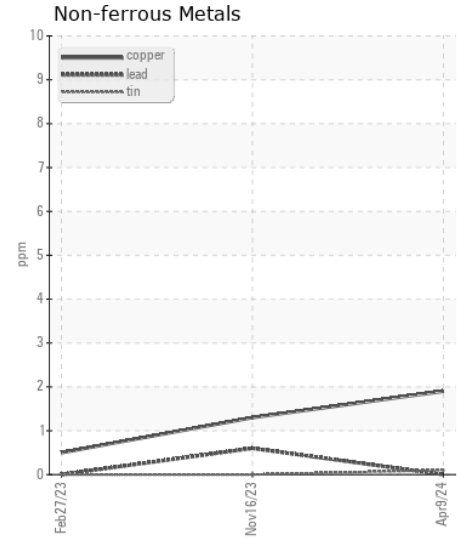
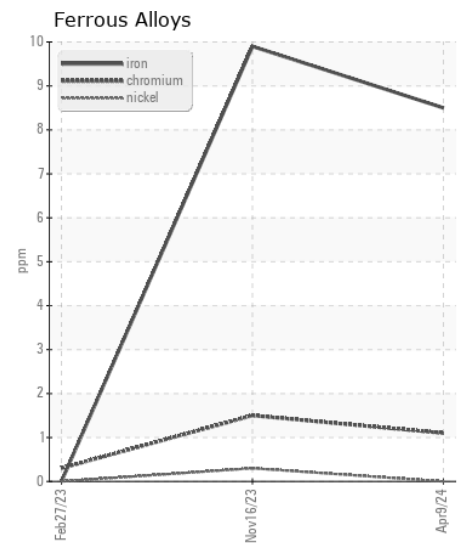
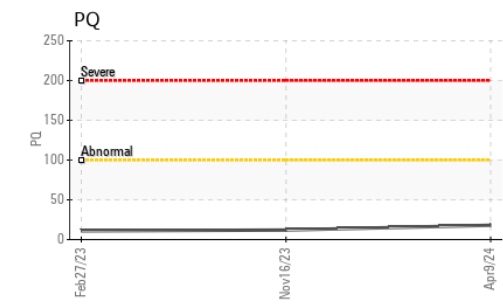
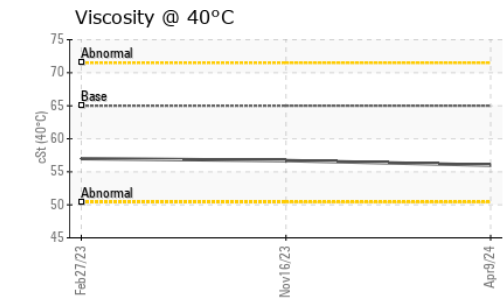
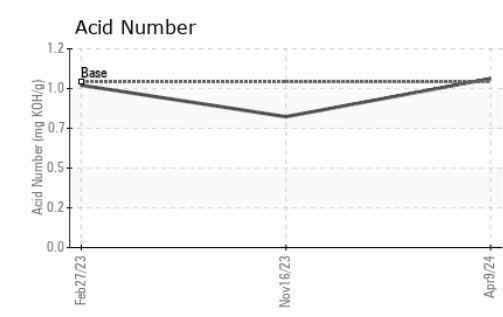
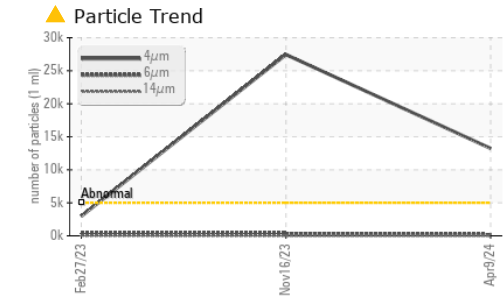
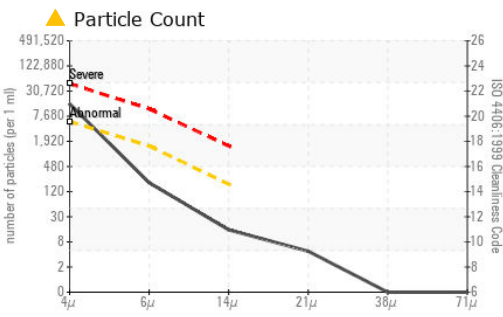
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	8	4
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	9	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 13237</b>	▲ 27447	2976
Particles >6µm		ASTM D7647	>1300	<b>173</b>	353	494
Particles >14µm		ASTM D7647	>160	<b>13</b>	13	20
Particles >21µm		ASTM D7647	>40	<b>4</b>	3	4
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/15/11</b>	▲ 22/16/11	19/16/11
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>18</b>	15	2
Boron	ppm	ASTM D5185m		<b>35</b>	38	8
Barium	ppm	ASTM D5185m		<b>0</b>	9	0
Molybdenum	ppm	ASTM D5185m		<b>14</b>	17	8
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>65</b>	65	30
Calcium	ppm	ASTM D5185m	87	<b>2238</b>	2257	1559
Phosphorus	ppm	ASTM D5185m	727	<b>790</b>	815	826
Zinc	ppm	ASTM D5185m	900	<b>863</b>	928	1011
Sulfur	ppm	ASTM D5185m	1500	<b>3379</b>	3530	3071
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>1.02</b>	0.79	0.98
Visc @ 40°C	cSt	ASTM D445	65	<b>56.0</b>	56.7	57.0



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209534 **Received** : 11 Apr 2024  
**Lab Number** : 06145778 **Tested** : 12 Apr 2024  
**Unique Number** : 10975856 **Diagnosed** : 14 Apr 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)