



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area  
**Store 1 - Cowen [RO#144143]**  
 Machine Id  
**JOHN DEERE 748L II 1DW748LBTMF711946**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (33 GAL)**

**RECOMMENDATION**

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0042206</b>	LEC0038679	LEC0034791
Sample Date		Client Info		<b>23 Oct 2023</b>	14 Feb 2023	29 Sep 2022
Machine Age	hrs	Client Info		<b>2064</b>	1484	1122
Oil Age	hrs	Client Info		<b>2064</b>	1484	1122
Filter Age	hrs	Client Info		<b>2064</b>	1484	1122
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184		<b>12</b>	9	8
Iron	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	2
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</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>	0	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>4</b>	5	8
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	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**

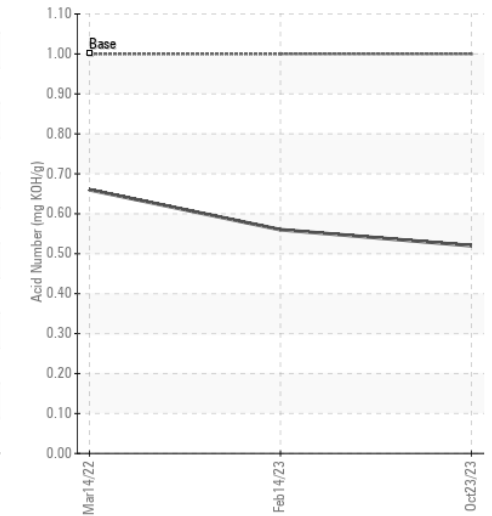
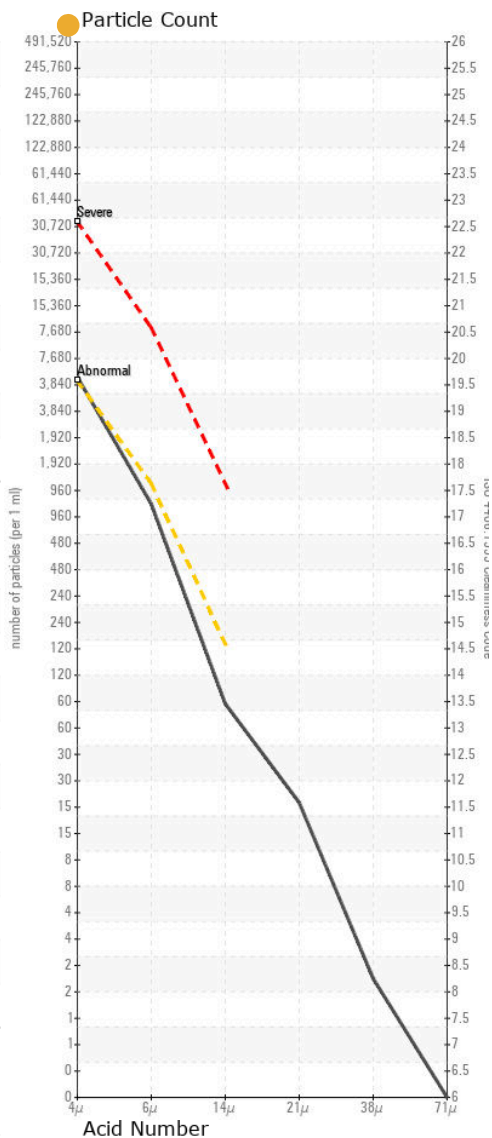
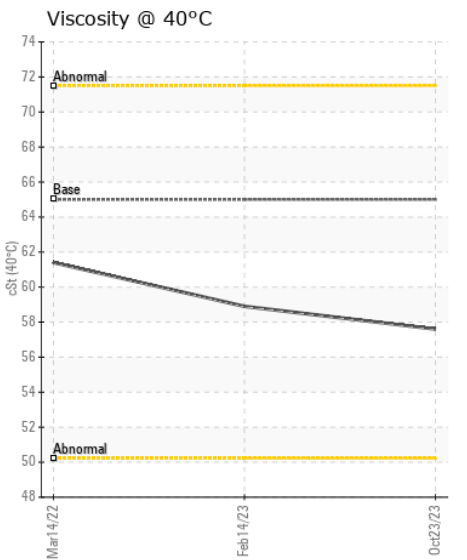
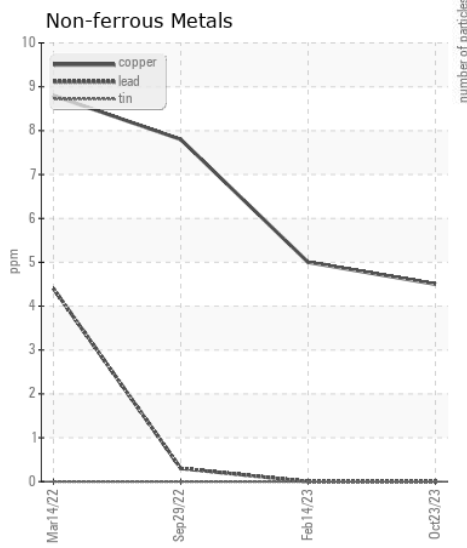
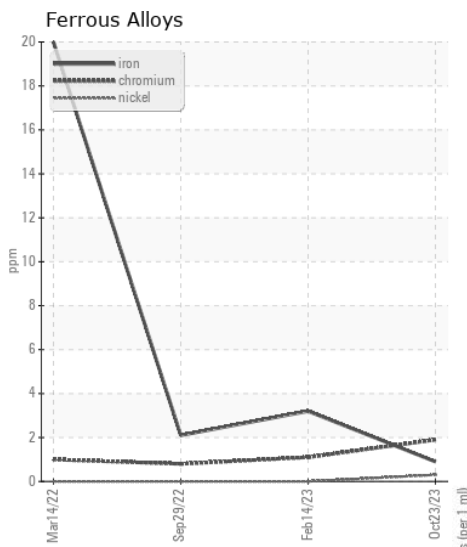
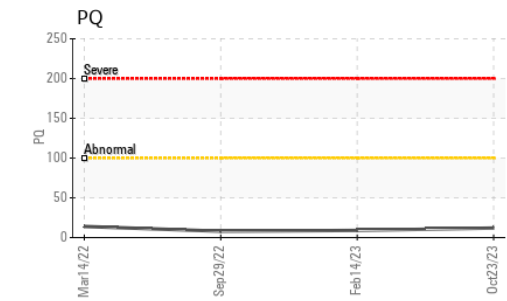
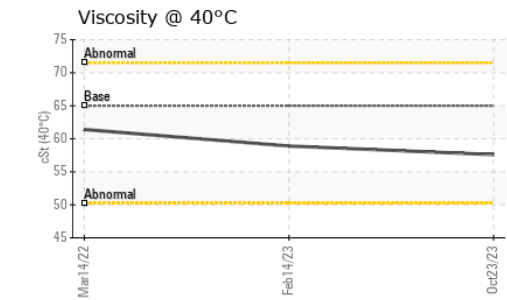
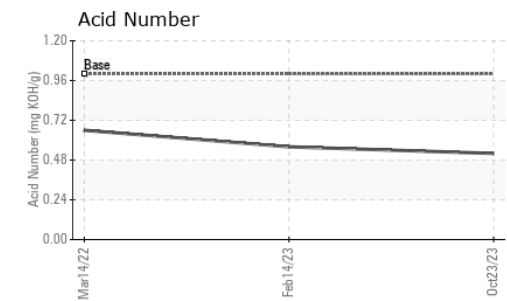
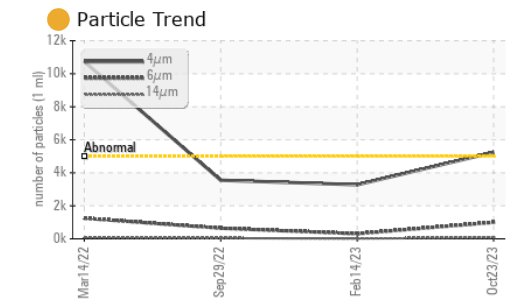
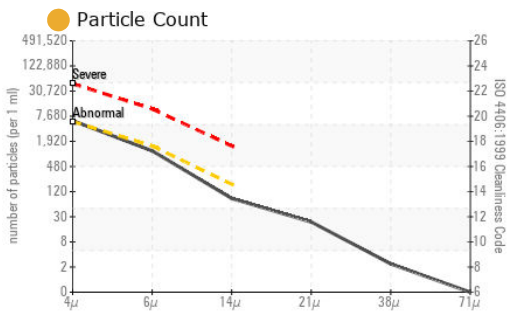
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>10</b>	9	10
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	5	6
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>5245</b>	3276	3548
Particles >6µm		ASTM D7647	>1300	<b>997</b>	307	642
Particles >14µm		ASTM D7647	>160	<b>73</b>	15	40
Particles >21µm		ASTM D7647	>40	<b>20</b>	6	9
Particles >38µm		ASTM D7647	>10	<b>2</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/17/13</b>	19/15/11	19/17/12
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>0</b>	0	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>7</b>	2	2
Calcium	ppm	ASTM D5185m	87	<b>117</b>	110	120
Phosphorus	ppm	ASTM D5185m	727	<b>646</b>	571	624
Zinc	ppm	ASTM D5185m	900	<b>864</b>	759	812
Sulfur	ppm	ASTM D5185m	1500	<b>1720</b>	1504	1998
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.52</b>	0.56	---
Visc @ 40°C	cSt	ASTM D445	65	<b>57.6</b>	58.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0042206 **Received** : 26 Oct 2023  
**Lab Number** : 05990258 **Tested** : 27 Oct 2023  
**Unique Number** : 10712920 **Diagnosed** : 27 Oct 2023 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com

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: (740)373-5570