



# OIL ANALYSIS REPORT

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



Area  
**Store 2 - Beaver [RO#134392]**  
Machine Id  
**JOHN DEERE 848L 1DW848LBEKF697223**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (33 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0035881</b>	LEC0027403	LEC0019633
Sample Date		Client Info		<b>20 Dec 2022</b>	14 Apr 2022	03 Nov 2021
Machine Age	hrs	Client Info		<b>3883</b>	3270	2658
Oil Age	hrs	Client Info		<b>3883</b>	3270	2658
Filter Age	hrs	Client Info		<b>1807</b>	1194	582
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>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>7</b>	12	16
Iron	ppm	ASTM D5185m	>23	<b>10</b>	7	6
Chromium	ppm	ASTM D5185m	>9	<b>4</b>	3	2
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	1	0
Lead	ppm	ASTM D5185m	>28	<b>2</b>	<1	0
Copper	ppm	ASTM D5185m	>51	<b>3</b>	1	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</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

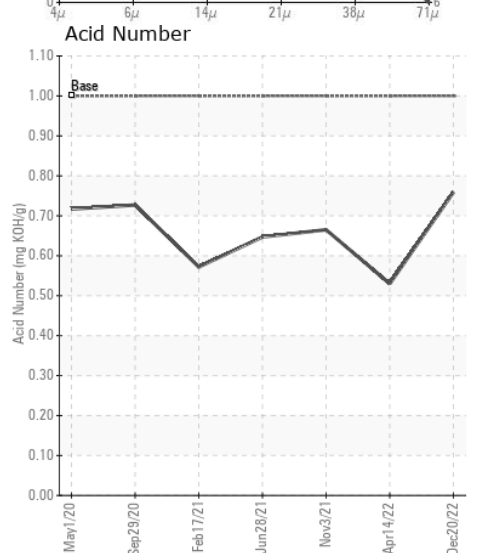
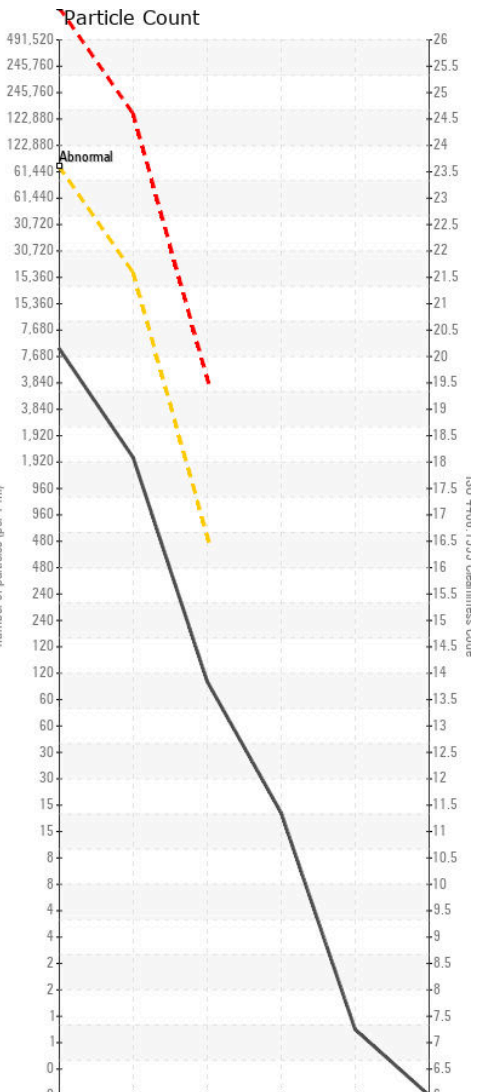
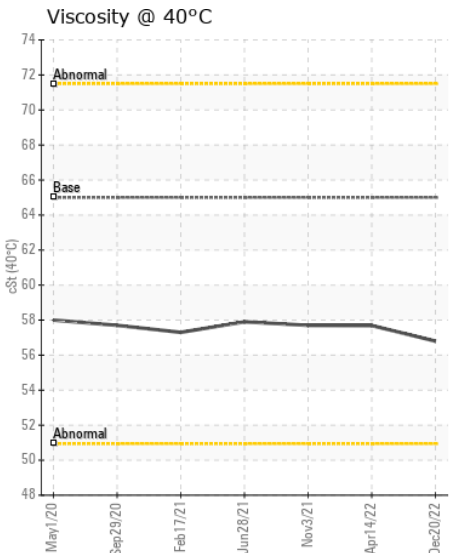
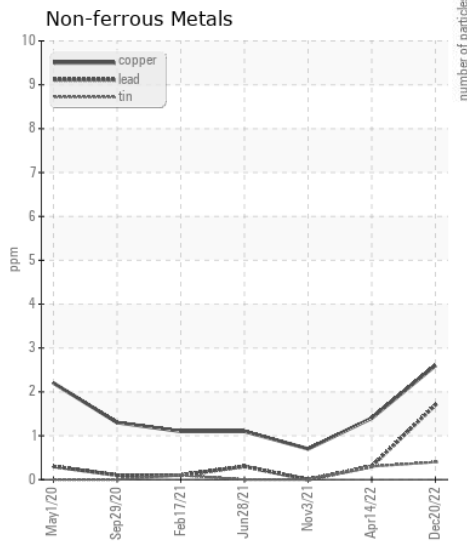
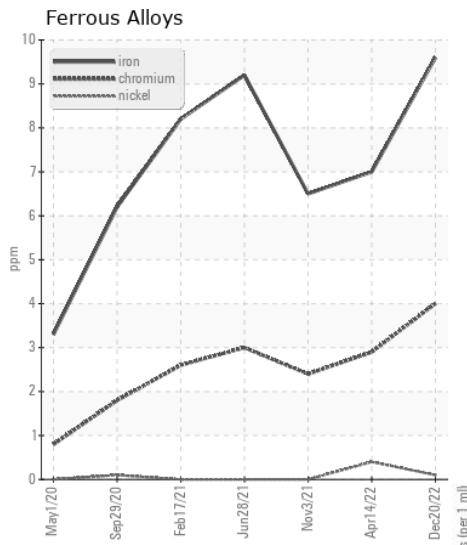
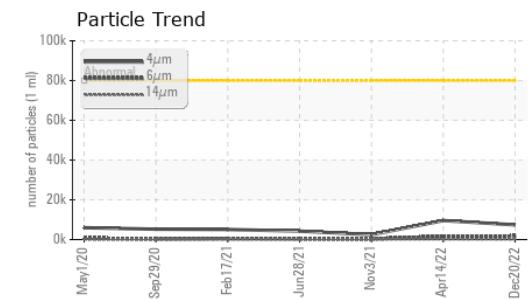
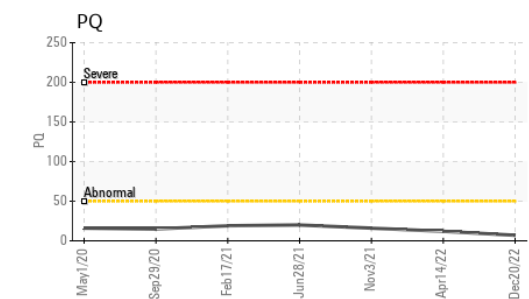
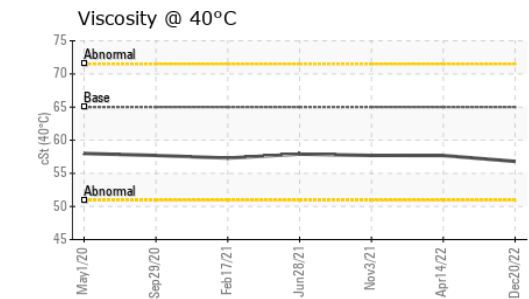
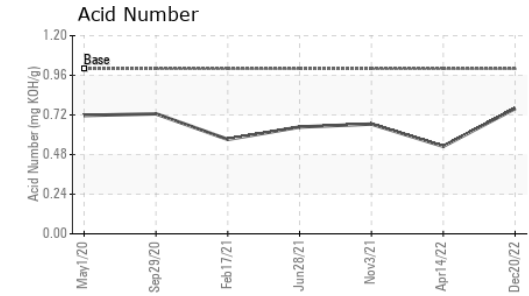
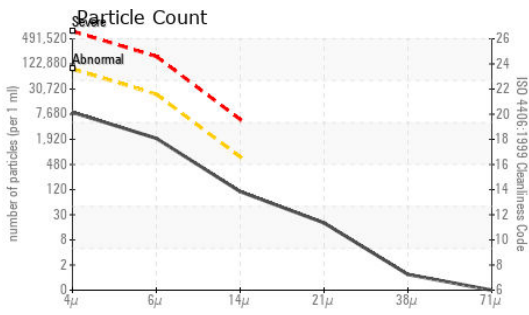
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	<b>6</b>	3	2
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	<1
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>7402</b>	9573	2465
Particles >6µm		ASTM D7647	>20000	<b>1775</b>	1606	295
Particles >14µm		ASTM D7647	>640	<b>95</b>	149	14
Particles >21µm		ASTM D7647	>160	<b>17</b>	31	4
Particles >38µm		ASTM D7647	>40	<b>1</b>	2	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>20/18/14</b>	20/18/14	18/15/11
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	>0.075	<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	>21	<b>1</b>	1	0
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>3</b>	4	3
Calcium	ppm	ASTM D5185m	87	<b>177</b>	173	188
Phosphorus	ppm	ASTM D5185m	727	<b>660</b>	645	593
Zinc	ppm	ASTM D5185m	900	<b>885</b>	775	750
Sulfur	ppm	ASTM D5185m	1500	<b>1932</b>	1429	1403
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.759</b>	0.53	0.665
Visc @ 40°C	cSt	ASTM D445	65	<b>56.8</b>	57.69	57.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0035881 **Received** : 23 Dec 2022  
**Lab Number** : 05724773 **Diagnosed** : 27 Dec 2022  
**Unique Number** : 10269354 **Diagnostician** : Doug Bogart  
**Test Package** : CONST ( Additional Tests: PQ )

**MOUNTAINEER MECHANIZED**  
 PO BOX 623  
 PINEVILLE, WV  
 US 24874  
 Contact: ERIC BOGGS  
 eric@moutaineerforest.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:  
F: