



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [RO#122139]
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		LEC0019633	LEC0020182	LEC0019841
Sample Date		Client Info		03 Nov 2021	28 Jun 2021	17 Feb 2021
Machine Age	hrs	Client Info		2658	2076	1499
Oil Age	hrs	Client Info		2658	2076	1499
Filter Age	hrs	Client Info		582	2076	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	16	20	19
Iron	ppm	ASTM D5185m	>23	6	9	8
Chromium	ppm	ASTM D5185m	>9	2	3	3
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>9	0	0	1
Lead	ppm	ASTM D5185m	>28	0	<1	<1
Copper	ppm	ASTM D5185m	>51	<1	1	1
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

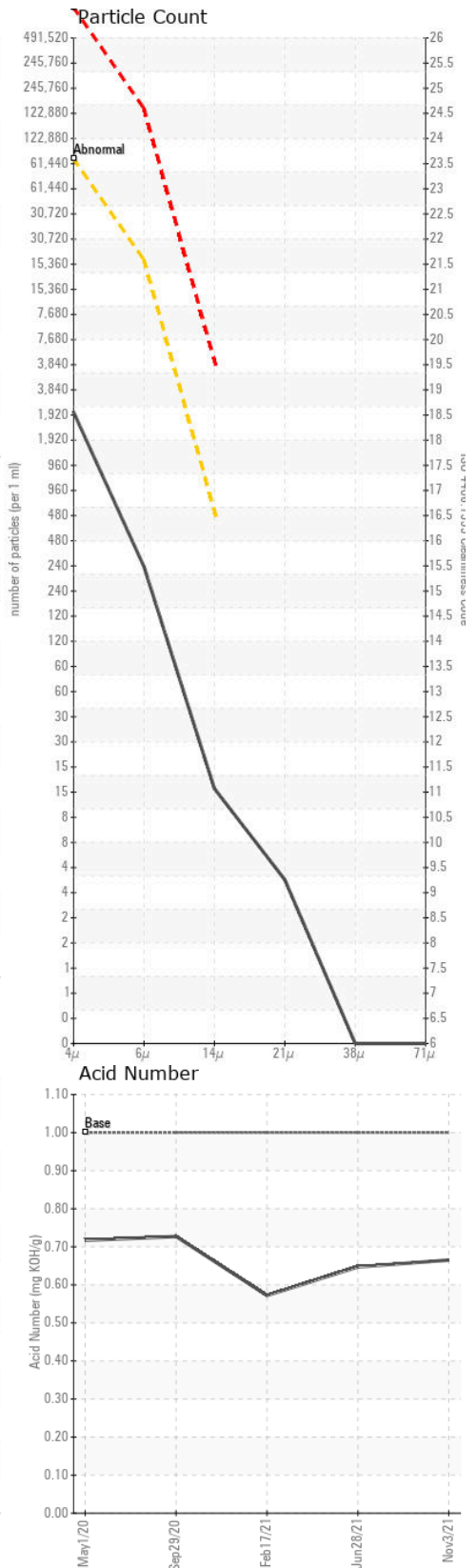
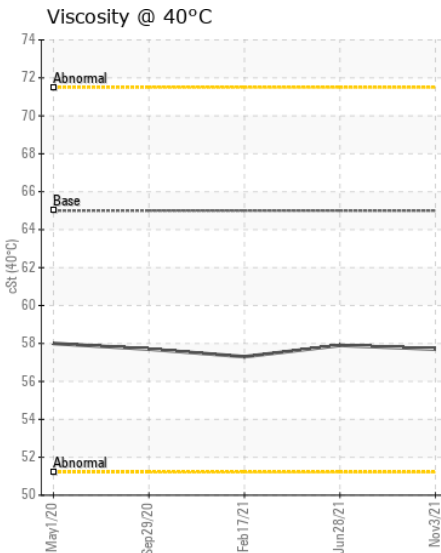
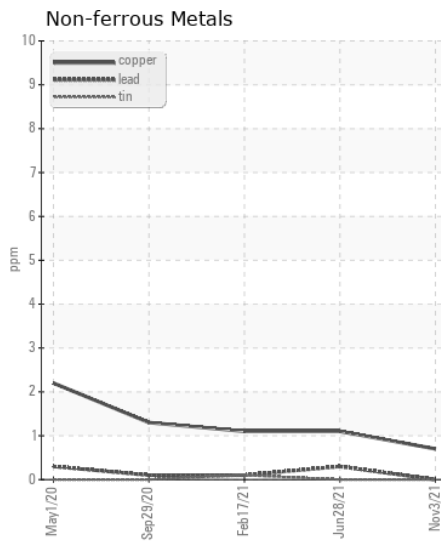
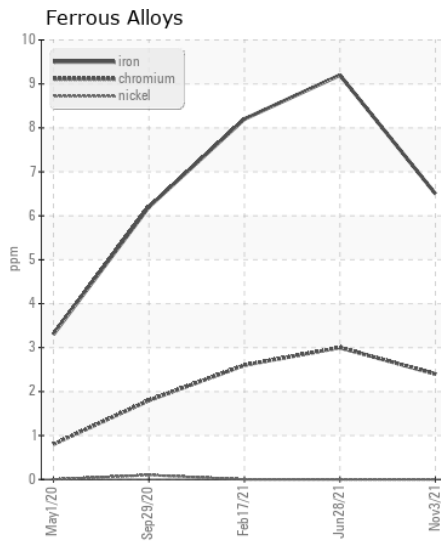
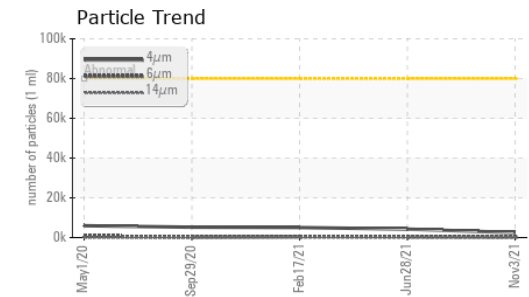
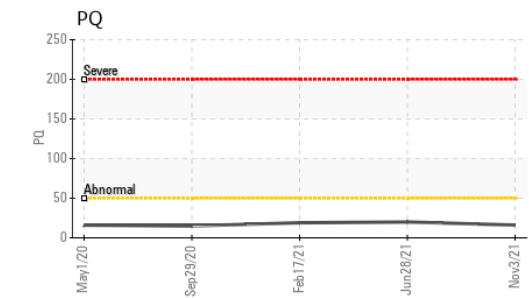
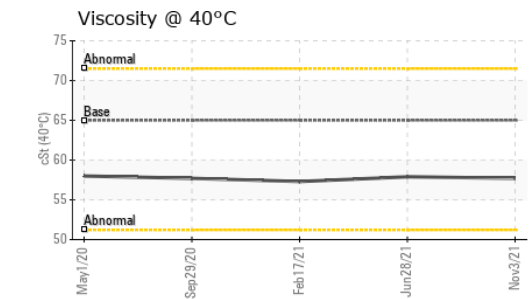
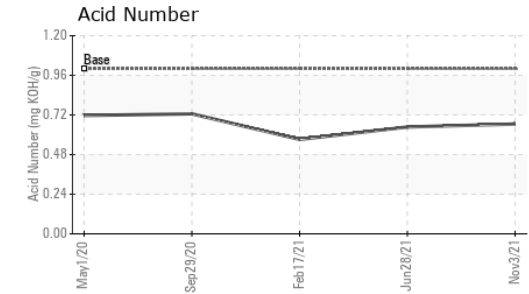
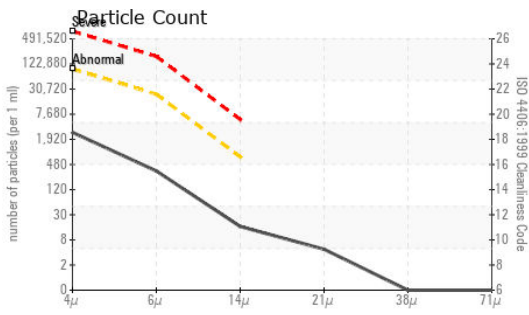
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	2	3	2
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	2465	4261	5073
Particles >6µm		ASTM D7647	>20000	295	437	571
Particles >14µm		ASTM D7647	>640	14	26	58
Particles >21µm		ASTM D7647	>160	4	7	19
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	18/15/11	19/16/12	20/16/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	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	0	<1	<1
Boron	ppm	ASTM D5185m		1	2	1
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		3	5	3
Calcium	ppm	ASTM D5185m	87	188	231	190
Phosphorus	ppm	ASTM D5185m	727	593	589	639
Zinc	ppm	ASTM D5185m	900	750	812	778
Sulfur	ppm	ASTM D5185m	1500	1403	1400	1505
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.665	0.647	0.572
Visc @ 40°C	cSt	ASTM D445	65	57.7	57.9	57.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0019633 **Received** : 08 Nov 2021
Lab Number : 05394426 **Diagnosed** : 09 Nov 2021
Unique Number : 9733576 **Diagnostician** : Jonathan Hester
Test Package : MOBCE (Additional Tests: PQ)

MOUNTAINEER MECHANIZED
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 US 24874
 Contact: ERIC BOGGS
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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)

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