

Store 2 - Beaver [RO#136393]

1T0850KXLBE213220

Hydraulic System

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (56 GAL)

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.



All component wear rates are normal.

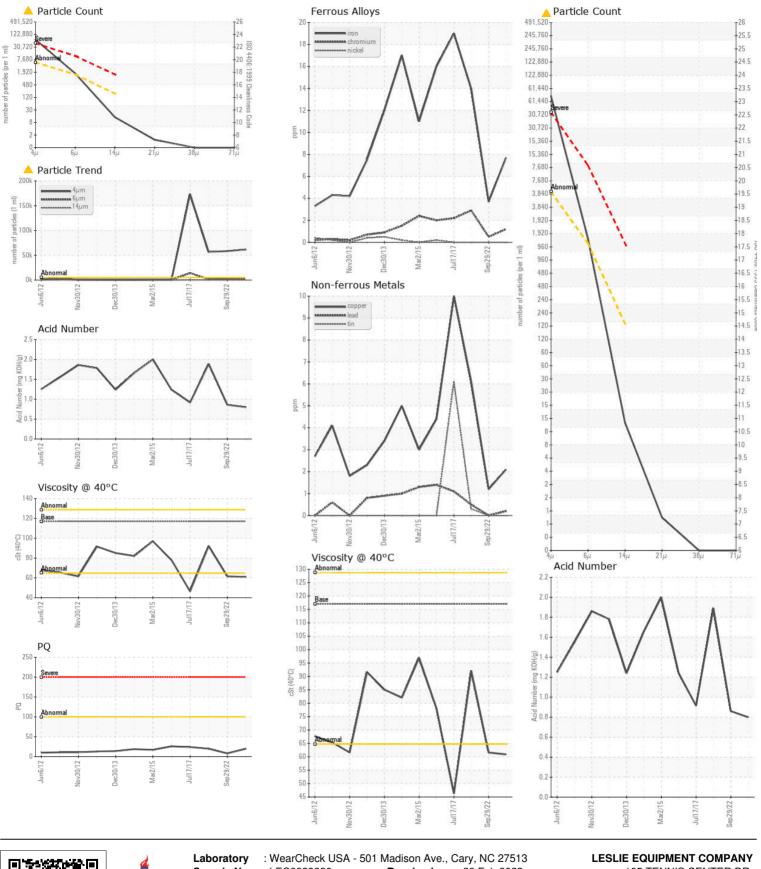
CONTAMINATION

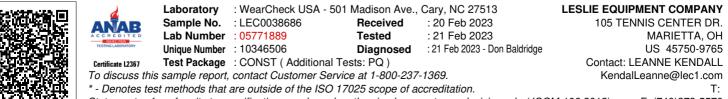
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0038686	LEC0035381	LEC0019636
Sample Date		Client Info		15 Feb 2023	29 Sep 2022	01 Nov 2021
Machine Age	hrs	Client Info		8595	8342	8093
Oil Age	hrs	Client Info		502	249	1197
Filter Age	hrs	Client Info		502	249	1197
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Change	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		20	8	20
Iron	ppm	ASTM D5185m	>20	8	4	14
Chromium	ppm	ASTM D5185m	>10	1	<1	3
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m	1.0	<1	0	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	4	2	7
Lead	ppm	ASTM D5185m	>10	۰ 1	0	<1
Copper	ppm	ASTM D5185m	>75	2	1	6
Tin		ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m	>10	0	0	<1
White Metal	ppm scalar	*Visual	NONE	NONE	NONE	< I NONE
			NONE	-		
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	10	5	18
Potassium	ppm	ASTM D5185m		2	0	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		A 61397	▲ 58491	▲ 56658
Particles >6µm		ASTM D7647	>1300	1477	2213	1343
Particles >14µm		ASTM D7647		12	19	38
Particles >21µm		ASTM D7647	>40	1	5	8
Particles >38µm		ASTM D7647		0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)		A 23/18/11	A 23/18/11	▲ 23/18/12
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	>0.1	NEG	NEG	NEG
	Journa	, iouu	20.1	~		NLQ
Sodium	ppm	ASTM D5185m		0	<1	0
Boron	ppm	ASTM D5185m		19	21	406
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		6	6	119
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		26	28	504
Calcium	ppm	ASTM D5185m		151	168	1579
Phosphorus	ppm	ASTM D5185m		625	643	978
Zinc	ppm	ASTM D5185m		793	833	1077
Sulfur	ppm	ASTM D5185m		1637	2018	2749
Acid Number (AN)	mg KOH/g	ASTM D8045		0.80	0.86	1.890
Visc @ 40°C	cSt	ASTM D445	117	60.9	61.6	92.1
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Submitted By: STORE 2 - BEAVER - CASEY TONEY Page 2 of 2