



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [RO#126600]
Machine Id
John Deere 648L 1DW648LXAFF668941
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		LEC0027536	LEC0023596	LEC0019182
Sample Date		Client Info		05 Apr 2022	20 Oct 2021	26 Apr 2021
Machine Age	hrs	Client Info		11223	10571	9881
Oil Age	hrs	Client Info		6704	6052	5362
Filter Age	hrs	Client Info		6704	6052	5362
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	17	23	22
Iron	ppm	ASTM D5185m	>23	13	22	21
Chromium	ppm	ASTM D5185m	>9	4	6	6
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>9	2	5	3
Lead	ppm	ASTM D5185m	>28	0	<1	0
Copper	ppm	ASTM D5185m	>51	4	8	6
Tin	ppm	ASTM D5185m	>5	<1	<1	<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

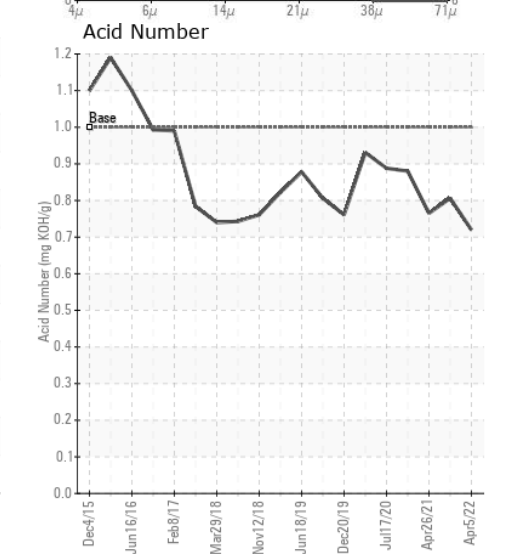
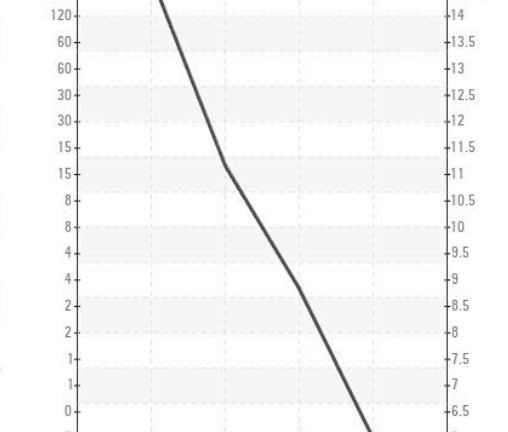
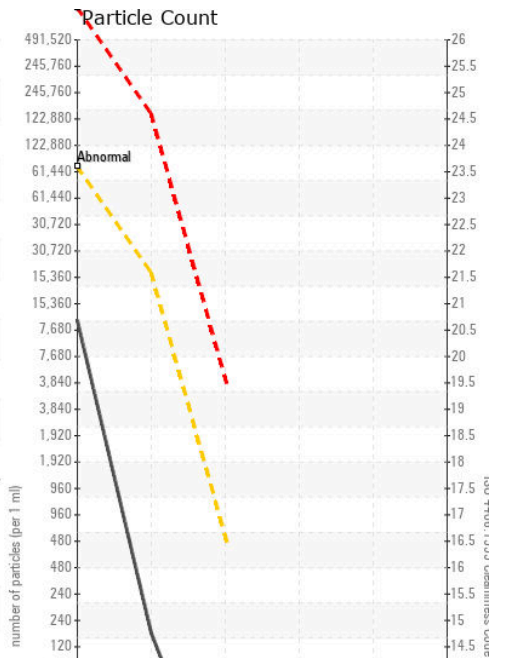
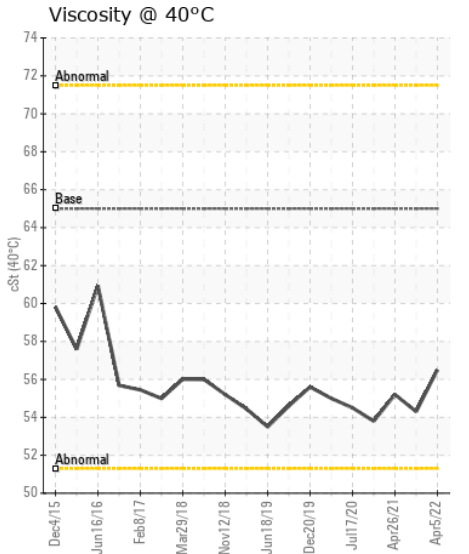
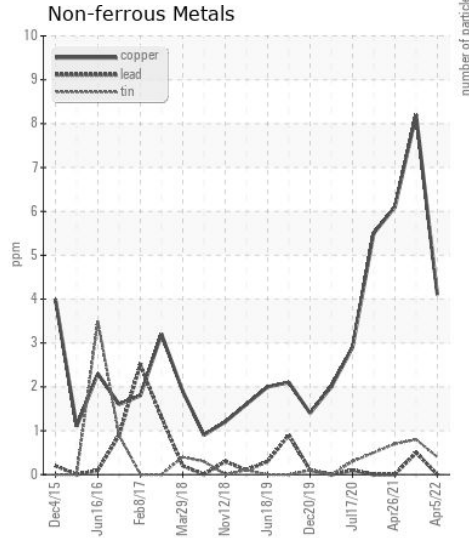
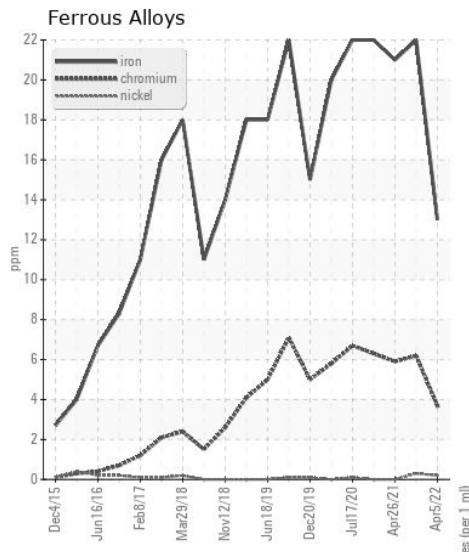
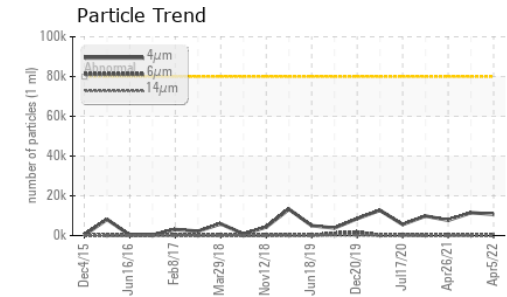
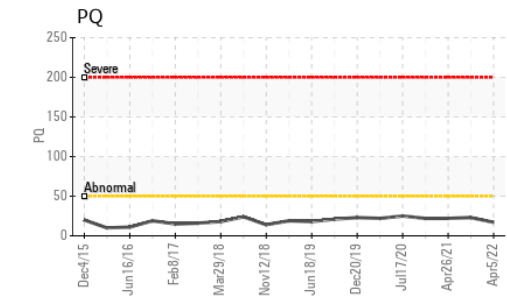
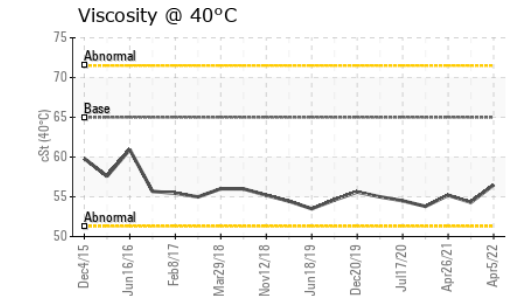
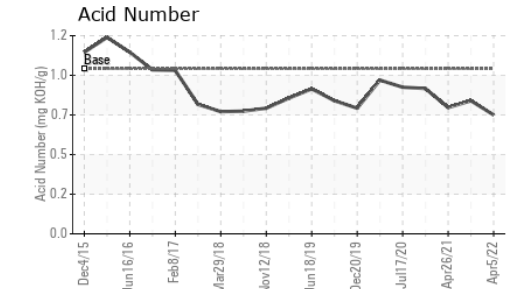
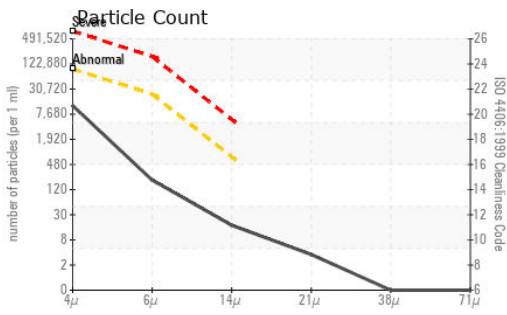
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	4	6	6
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	10730	11517	7682
Particles >6µm		ASTM D7647	>20000	179	191	182
Particles >14µm		ASTM D7647	>640	15	10	17
Particles >21µm		ASTM D7647	>160	3	1	6
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/15/11	21/15/10	20/15/11
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	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	14	14
Calcium	ppm	ASTM D5185m	87	298	519	541
Phosphorus	ppm	ASTM D5185m	727	726	716	711
Zinc	ppm	ASTM D5185m	900	801	916	858
Sulfur	ppm	ASTM D5185m	1500	1491	1800	1699
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.72	0.806	0.765
Visc @ 40°C	cSt	ASTM D445	65	56.5	54.3	55.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0027536 **Received** : 08 Apr 2022
Lab Number : 05514111 **Tested** : 11 Apr 2022
Unique Number : 9928390 **Diagnosed** : 11 Apr 2022 - Doug Bogart
Test Package : MOBCE (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com
 T:
 F: (740)373-5570

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)