



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 1 - Cowen [RO#147626]
Machine Id
JOHN DEERE 850K 1T0850KXCEE259008
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (28 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046866	LEC0041453	LECP185288
Sample Date		Client Info		09 Feb 2024	13 Jun 2023	28 Jan 2019
Machine Age	hrs	Client Info		7356	6318	4318
Oil Age	hrs	Client Info		1038	2372	372
Filter Age	hrs	Client Info		1038	2372	0
Oil Changed		Client Info		Not Chngd	Changed	N/A
Filter Changed		Client Info		Not Chngd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	16	17	19
Iron	ppm	ASTM D5185m	>23	15	12	13
Chromium	ppm	ASTM D5185m	>9	3	4	2
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	11	4	9
Lead	ppm	ASTM D5185m	>28	<1	0	<1
Copper	ppm	ASTM D5185m	>51	6	10	8
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

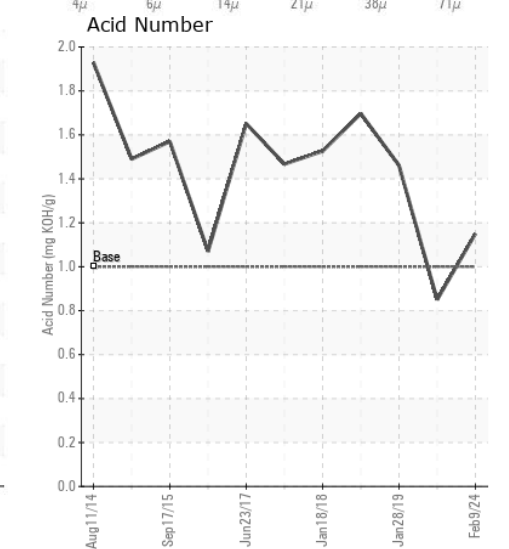
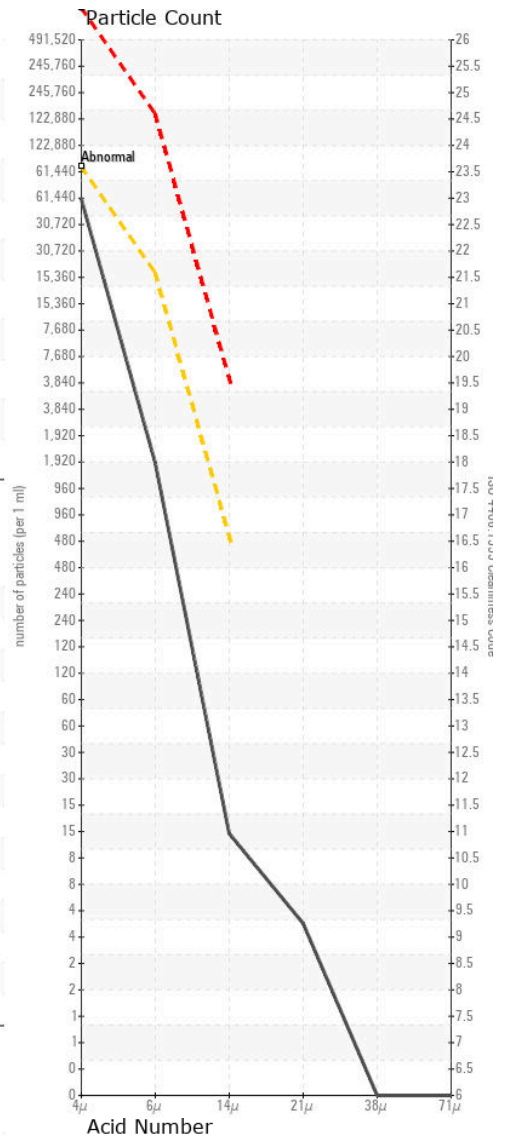
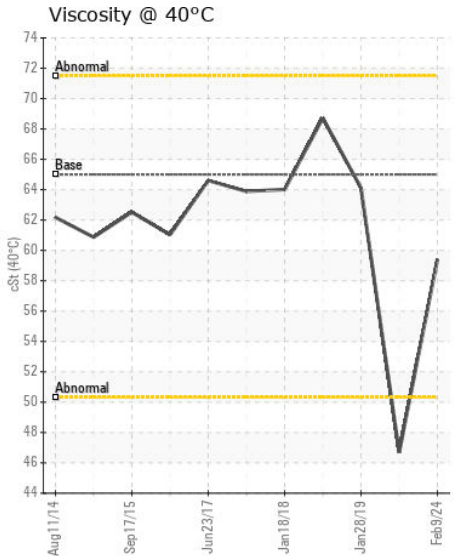
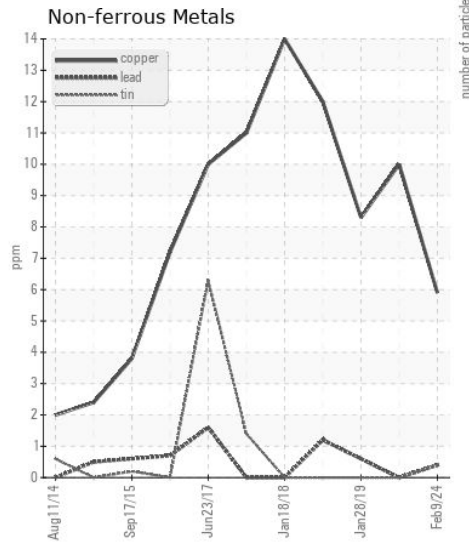
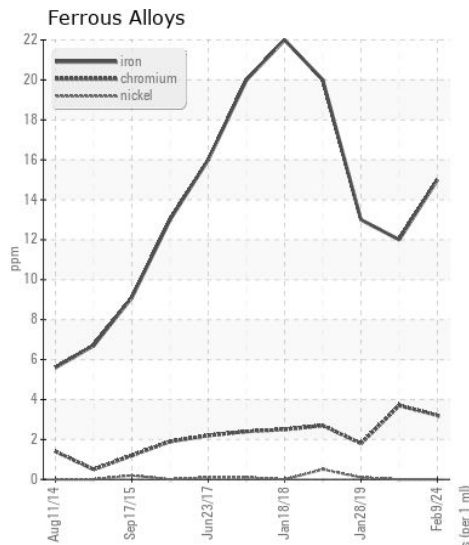
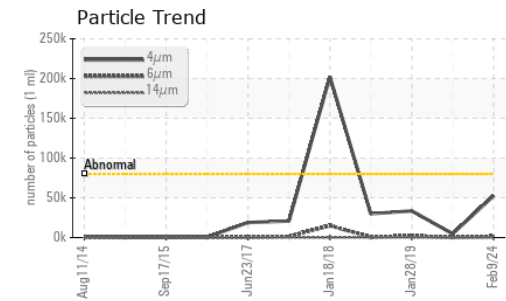
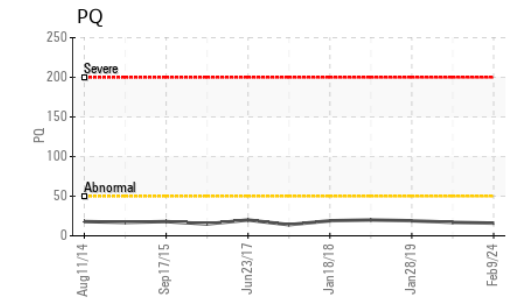
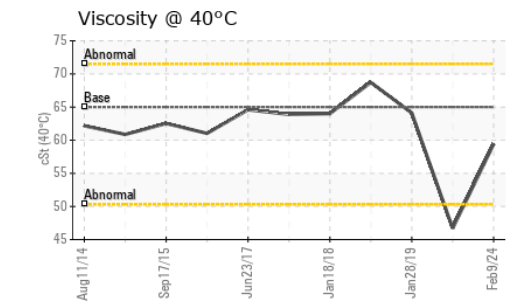
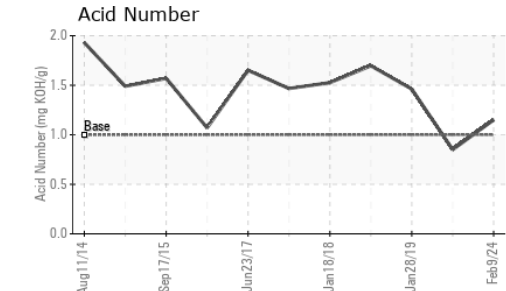
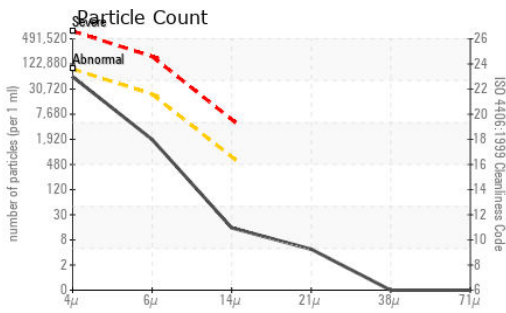
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	25	13	16
Potassium	ppm	ASTM D5185m	>20	3	<1	8
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	52549	4702	33541
Particles >6µm		ASTM D7647	>20000	1661	208	2226
Particles >14µm		ASTM D7647	>640	13	10	95
Particles >21µm		ASTM D7647	>160	4	4	27
Particles >38µm		ASTM D7647	>40	0	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	23/18/11	19/15/10	22/18/14
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	2	3	2
Boron	ppm	ASTM D5185m		128	55	89
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		98	8	15
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		345	102	183
Calcium	ppm	ASTM D5185m	87	1329	797	1135
Phosphorus	ppm	ASTM D5185m	727	719	578	829
Zinc	ppm	ASTM D5185m	900	845	652	993
Sulfur	ppm	ASTM D5185m	1500	2749	2901	2352
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.15	0.85	1.461
Visc @ 40°C	cSt	ASTM D445	65	59.4	46.7	64.11



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046866 **Received** : 14 Feb 2024
Lab Number : 06088705 **Tested** : 15 Feb 2024
Unique Number : 10876150 **Diagnosed** : 15 Feb 2024 - Jonathan Hester
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)

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