



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 8 - Pikeville
Machine Id
JOHN DEERE 850L 1T0850LXAKF363304
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: RAN FILTER CADDY ON MACHINE)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0038309	LEC0038304	LEC0017469
Sample Date		Client Info		09 Jan 2023	29 Dec 2022	04 Nov 2020
Machine Age	hrs	Client Info		0	1415	493
Oil Age	hrs	Client Info		1414	1415	493
Filter Age	hrs	Client Info		1414	1415	493
Oil Changed		Client Info		Filtered	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	8	12	2
Chromium	ppm	ASTM D5185m	>10	1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	1	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	2	8	2
Tin	ppm	ASTM D5185m	>10	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

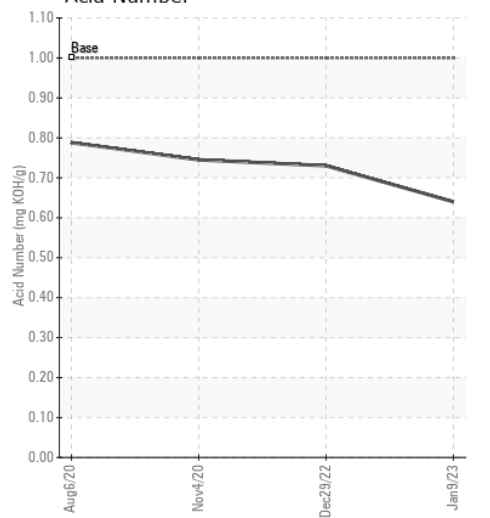
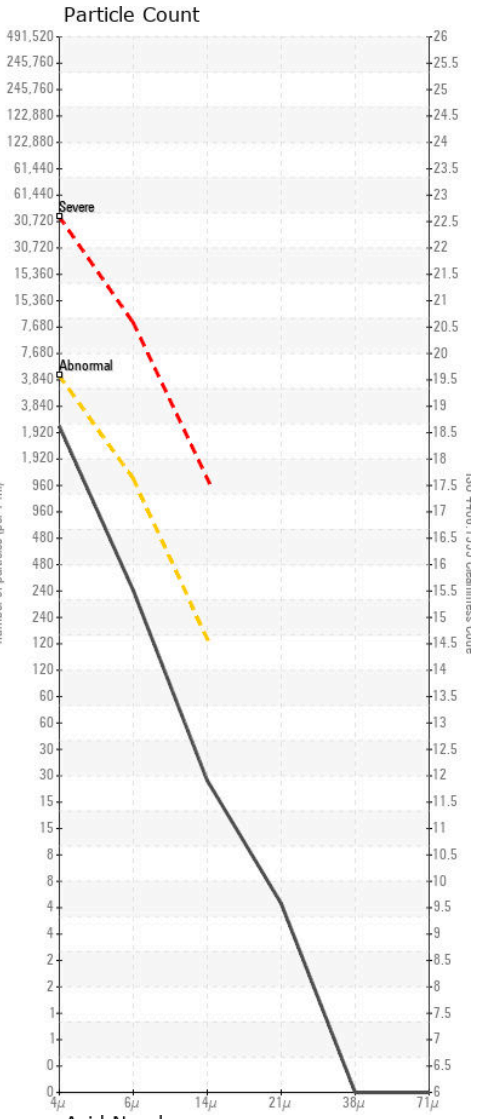
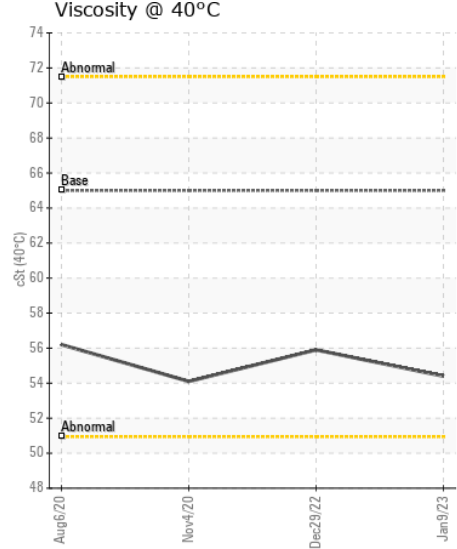
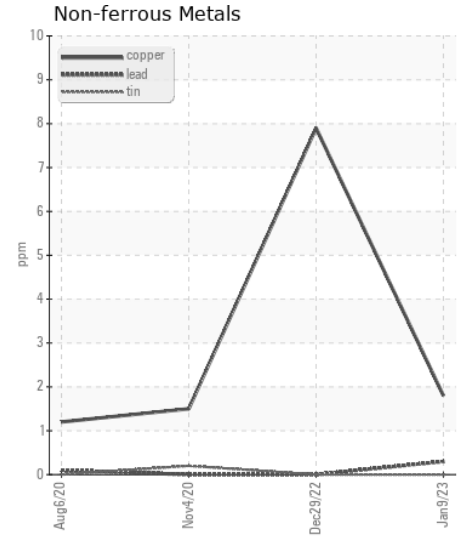
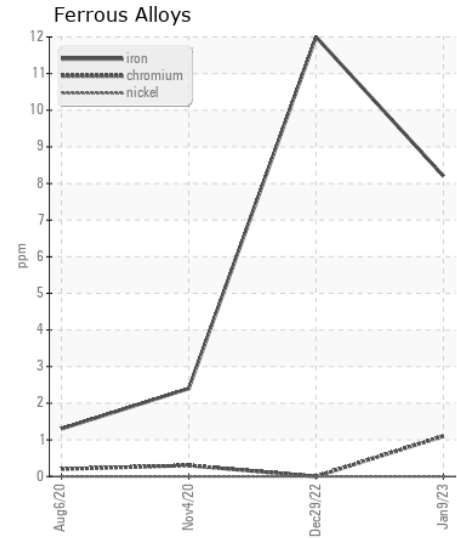
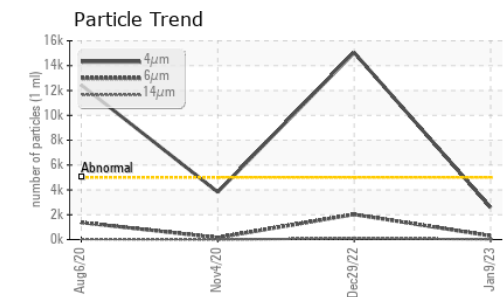
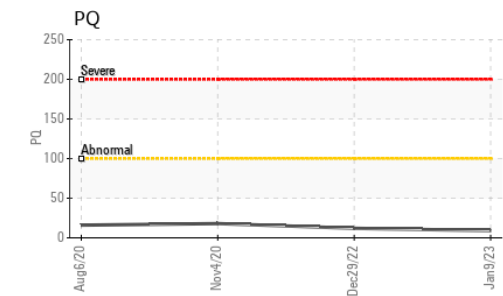
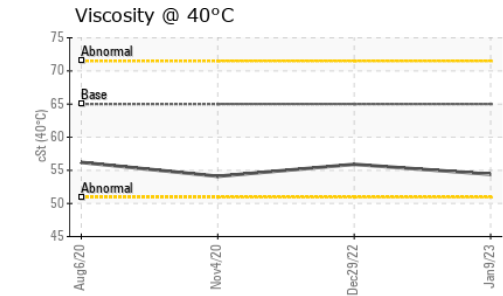
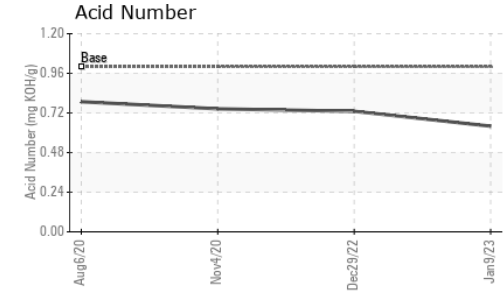
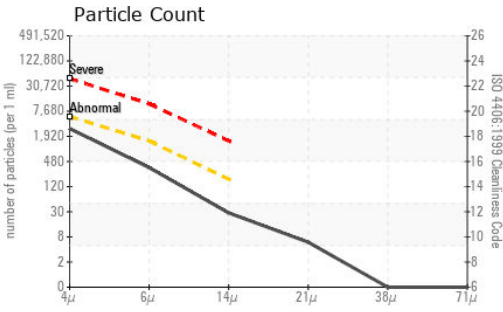
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	2	0	1
Potassium	ppm	ASTM D5185m	>20	2	0	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	2584	▲ 15046	3828
Particles >6µm		ASTM D7647	>1300	301	● 2025	158
Particles >14µm		ASTM D7647	>160	25	83	9
Particles >21µm		ASTM D7647	>40	5	16	2
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/15/12	▲ 21/18/14	19/14/10
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	0	2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	1
Calcium	ppm	ASTM D5185m	87	85	84	84
Phosphorus	ppm	ASTM D5185m	727	573	609	580
Zinc	ppm	ASTM D5185m	900	700	762	800
Sulfur	ppm	ASTM D5185m	1500	1688	1804	1346
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.64	0.73	0.745
Visc @ 40°C	cSt	ASTM D445	65	54.4	55.9	54.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0038309 **Received** : 11 Jan 2023
Lab Number : 05736068 **Tested** : 12 Jan 2023
Unique Number : 10285666 **Diagnosed** : 12 Jan 2023 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 MARIETTA, OH
 US 45750-9765
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Certificate L2367
 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)