



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville [152974]
Machine Id
JOHN DEERE 950K 1T0950KPLJF338554
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049152	LEC0048593	LEC0044208
Sample Date		Client Info		16 Jul 2024	19 Mar 2024	16 Nov 2023
Machine Age	hrs	Client Info		6158	5631	5097
Oil Age	hrs	Client Info		0	551	17
Filter Age	hrs	Client Info		0	551	17
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

The iron level is abnormal.

Iron	ppm	ASTM D5185m	>51	▲ 59	46	12
Chromium	ppm	ASTM D5185m	>11	2	4	2
Nickel	ppm	ASTM D5185m	>5	6	▲ 11	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	6	10	5
Lead	ppm	ASTM D5185m	>26	<1	1	<1
Copper	ppm	ASTM D5185m	>26	3	6	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

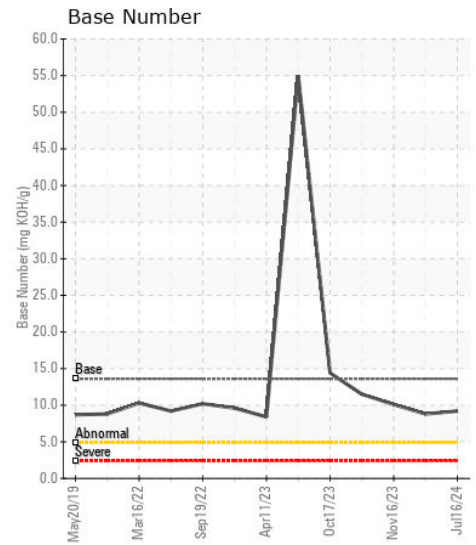
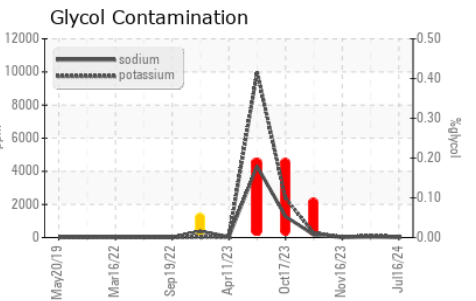
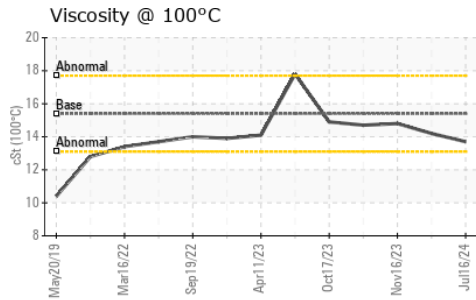
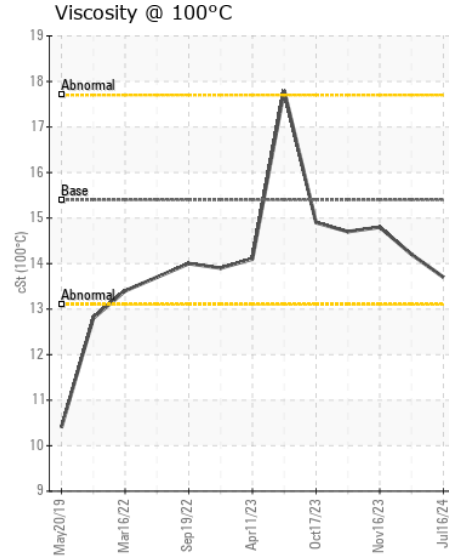
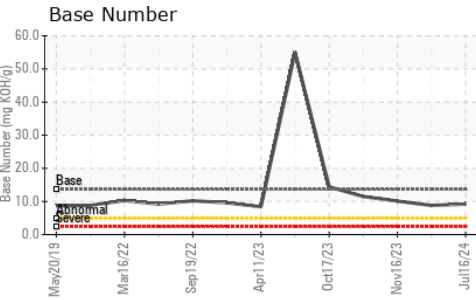
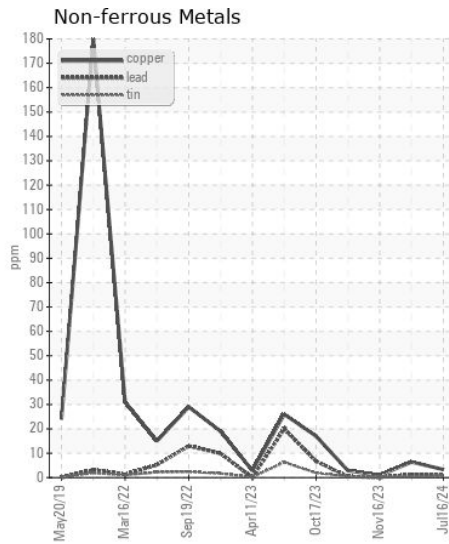
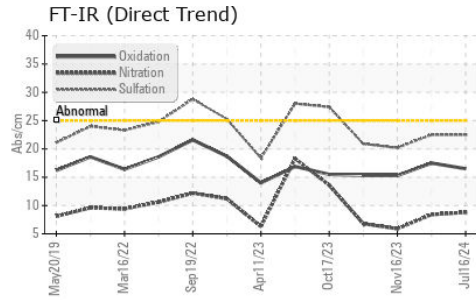
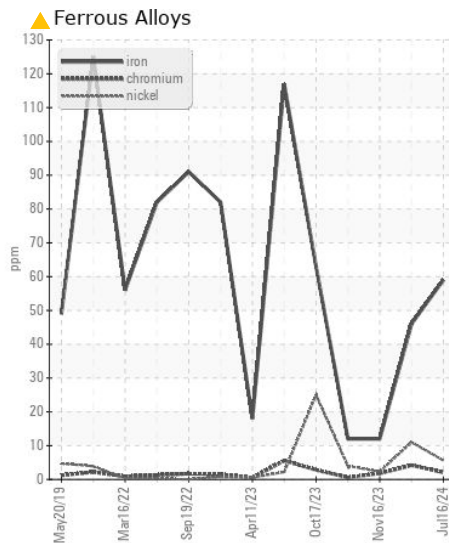
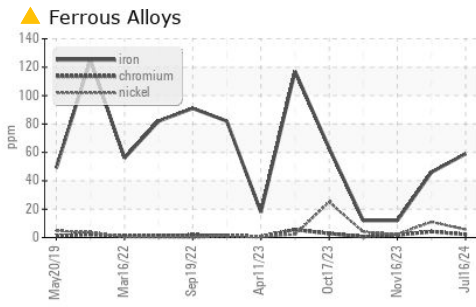
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>120	10	12	7
Potassium	ppm	ASTM D5185m	>20	● 43	▲ 111	31
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.4	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.5	20.2
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	>0.21	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	15	▲ 39	15
Boron	ppm	ASTM D5185m		208	225	288
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		262	248	228
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		807	882	806
Calcium	ppm	ASTM D5185m		1521	1497	1274
Phosphorus	ppm	ASTM D5185m		918	890	897
Zinc	ppm	ASTM D5185m		1136	1181	1073
Sulfur	ppm	ASTM D5185m		3033	2812	3311
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	17.5	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.2	8.8	10.1
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.2	14.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049152 **Received** : 17 Jul 2024
Lab Number : 06238989 **Tested** : 19 Jul 2024
Unique Number : 11127823 **Diagnosed** : 19 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: Glycol, TBN)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
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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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