



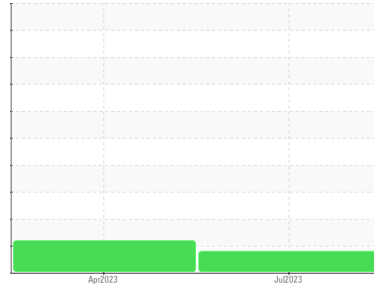
PROBLEM SUMMARY

Sample Rating Trend

WEAR

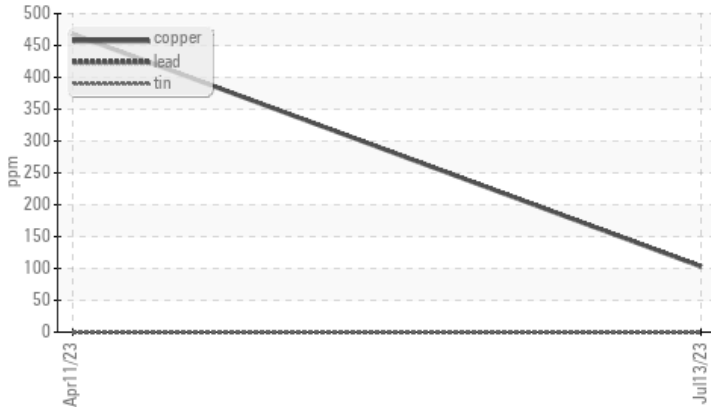


Area
Store 4 - Fairmont
 Machine Id
JOHN DEERE 250G 1FF250GXANF612011
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)



COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	---
Copper	ppm	ASTM D5185m	>26	▲ 103	▲ 468	---

Customer Id: LESMAROH
 Sample No.: LEC0042958
 Lab Number: 05901123
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

11 Apr 2023 Diag: Don Baldrige

WEAR



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. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

view report





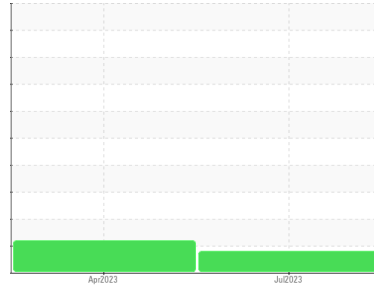
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
Store 4 - Fairmont
 Machine Id
JOHN DEERE 250G 1FF250GXANF612011
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)



DIAGNOSIS

▲ Recommendation

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.

▲ Wear

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		LEC0042958	LEC0040478	---
Sample Date	Client Info		13 Jul 2023	11 Apr 2023	---
Machine Age	hrs	Client Info	1008	638	---
Oil Age	hrs	Client Info	370	638	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.1	<1.0	0.4	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	22	41
Chromium	ppm	ASTM D5185m	>11	<1	1
Nickel	ppm	ASTM D5185m	>5	6	6
Titanium	ppm	ASTM D5185m		0	<1
Silver	ppm	ASTM D5185m	>3	0	0
Aluminum	ppm	ASTM D5185m	>31	3	3
Lead	ppm	ASTM D5185m	>26	0	0
Copper	ppm	ASTM D5185m	>26	▲ 103	▲ 468
Tin	ppm	ASTM D5185m	>4	0	0
Vanadium	ppm	ASTM D5185m		<1	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		194	130
Barium	ppm	ASTM D5185m		0	<1
Molybdenum	ppm	ASTM D5185m		253	210
Manganese	ppm	ASTM D5185m		2	4
Magnesium	ppm	ASTM D5185m		879	921
Calcium	ppm	ASTM D5185m		1581	1420
Phosphorus	ppm	ASTM D5185m		934	920
Zinc	ppm	ASTM D5185m		1181	1151
Sulfur	ppm	ASTM D5185m		3563	3252

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>120	7	9
Sodium	ppm	ASTM D5185m	>31	2	4
Potassium	ppm	ASTM D5185m	>20	1	0

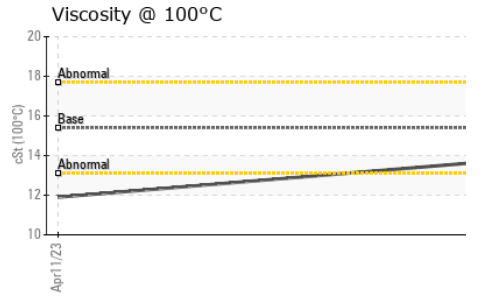
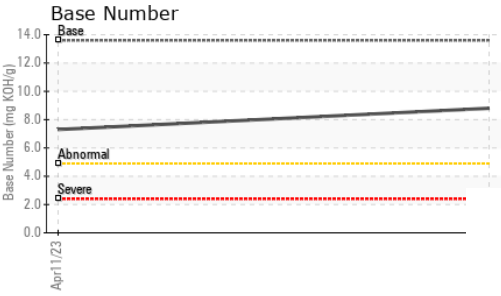
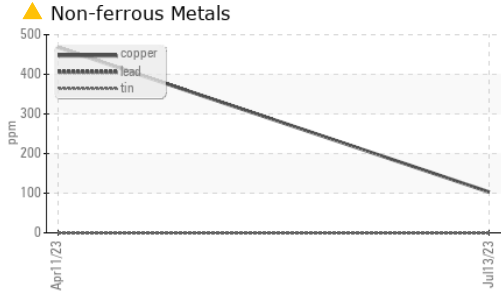
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.9	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	21.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	7.3

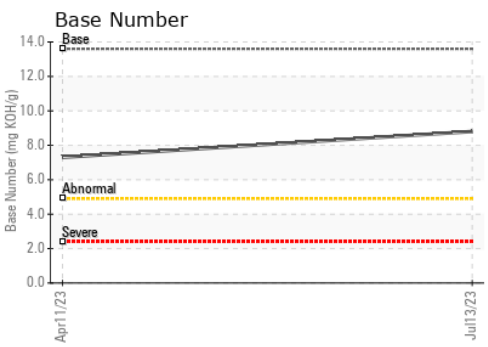
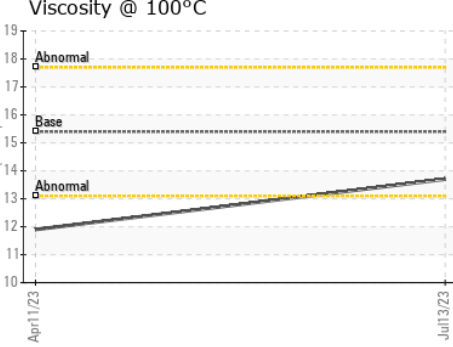
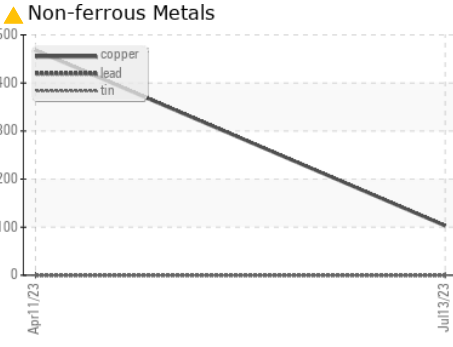
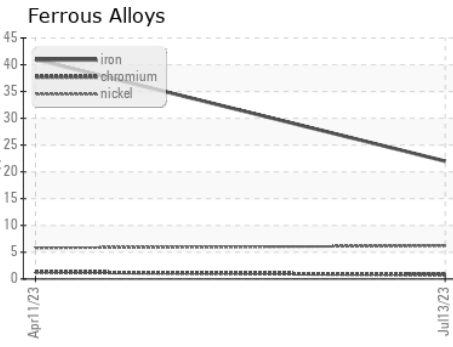
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	▲ 11.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042958 **Received** : 18 Jul 2023
Lab Number : 05901123 **Diagnosed** : 19 Jul 2023
Unique Number : 10562479 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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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