



PROBLEM SUMMARY



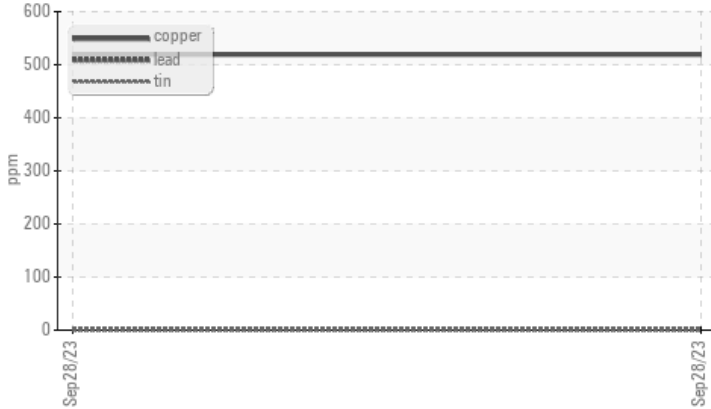
Area
Store 9 - Marietta
 Machine Id
JOHN DEERE 300G 1FF300GXLNF732069
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Viscosity @ 100°C



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Copper	ppm	ASTM D5185m	>26	▲ 519	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 11.0	---	---

Customer Id: LESMAROH
 Sample No.: LEC0040982
 Lab Number: 05966087
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
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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

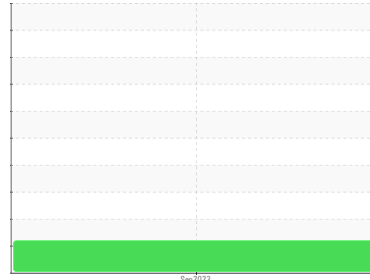


OIL ANALYSIS REPORT



Area
Store 9 - Marietta
 Machine Id
JOHN DEERE 300G 1FF300GXLNF732069
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

Sample Rating Trend



WEAR



DIAGNOSIS

▲ Recommendation

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

▲ Wear

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.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		LEC0040982	---	---
Sample Date	Client Info		28 Sep 2023	---	---
Machine Age	hrs	Client Info	453	---	---
Oil Age	hrs	Client Info	453	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >51	50	---	---
Chromium	ppm	ASTM D5185m >11	1	---	---
Nickel	ppm	ASTM D5185m >5	12	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m >3	0	---	---
Aluminum	ppm	ASTM D5185m >31	3	---	---
Lead	ppm	ASTM D5185m >26	1	---	---
Copper	ppm	ASTM D5185m >26	▲ 519	---	---
Tin	ppm	ASTM D5185m >4	2	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	259	---	---
Barium	ppm	ASTM D5185m	2	---	---
Molybdenum	ppm	ASTM D5185m	226	---	---
Manganese	ppm	ASTM D5185m	8	---	---
Magnesium	ppm	ASTM D5185m	766	---	---
Calcium	ppm	ASTM D5185m	1562	---	---
Phosphorus	ppm	ASTM D5185m	889	---	---
Zinc	ppm	ASTM D5185m	1073	---	---
Sulfur	ppm	ASTM D5185m	2945	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >120	13	---	---
Sodium	ppm	ASTM D5185m >31	10	---	---
Potassium	ppm	ASTM D5185m >20	8	---	---
Fuel	%	ASTM D3524 >2.1	0.3	---	---

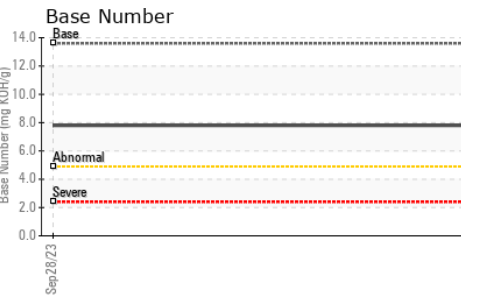
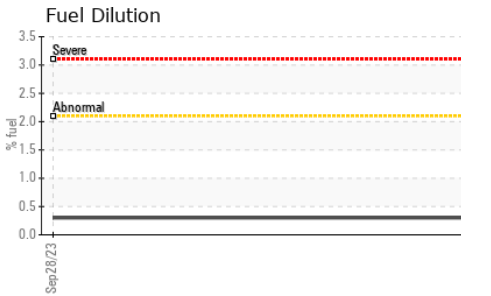
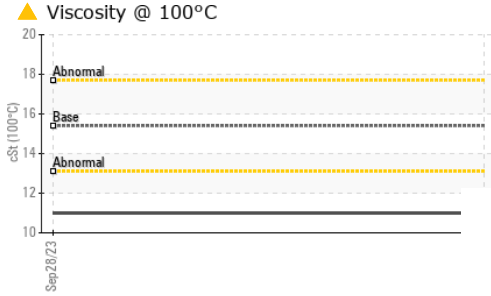
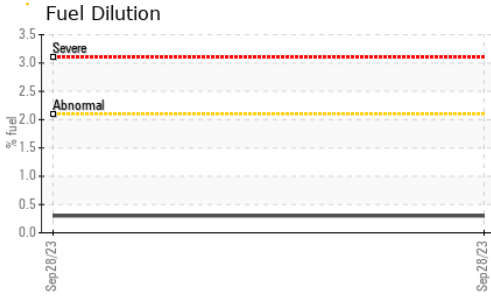
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.3	---	---
Nitration	Abs/cm	*ASTM D7624 >20	8.7	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.1	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.2	---	---
Base Number (BN)	mg KOH/g	ASTM D2896 13.6	7.8	---	---

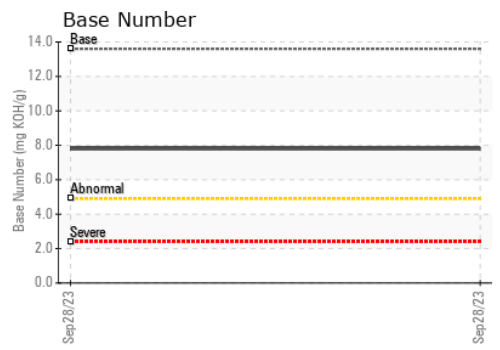
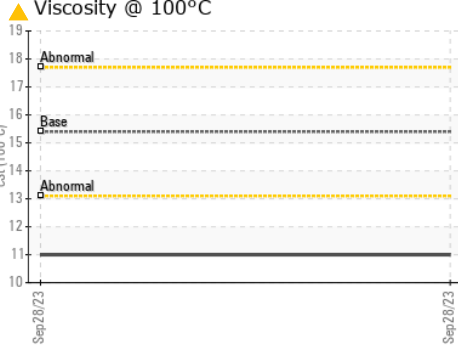
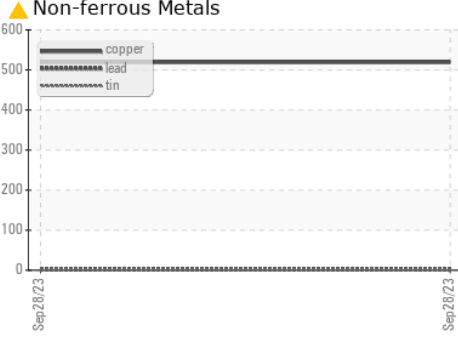
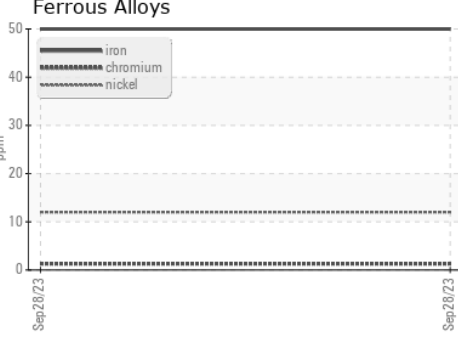
OIL ANALYSIS REPORT



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 ▲ 11.0	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0040982 **Received** : 02 Oct 2023
Lab Number : 05966087 **Diagnosed** : 04 Oct 2023
Unique Number : 10672638 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)