



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 300G 1FF300GXHNF732154

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197375	JR0167841	---
Sample Date		Client Info		05 Feb 2024	05 Apr 2023	---
Machine Age	hrs	Client Info		1252	542	---
Oil Age	hrs	Client Info		710	542	---
Filter Age	hrs	Client Info		0	542	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level has decreased, but is still abnormal. Valve wear is indicated.

Iron	ppm	ASTM D5185m	>51	30	37	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	▲ 10	2	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	2	1	---
Lead	ppm	ASTM D5185m	>26	0	4	---
Copper	ppm	ASTM D5185m	>26	▲ 49	▲ 318	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

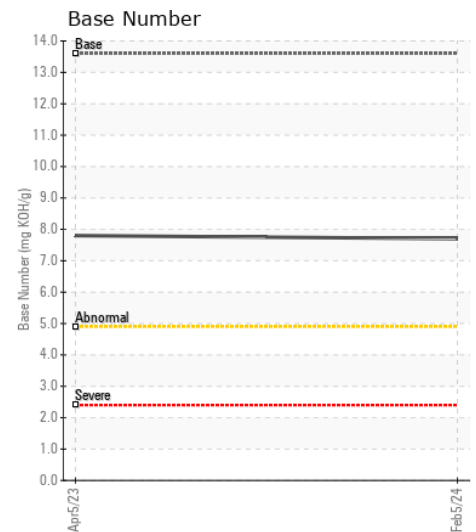
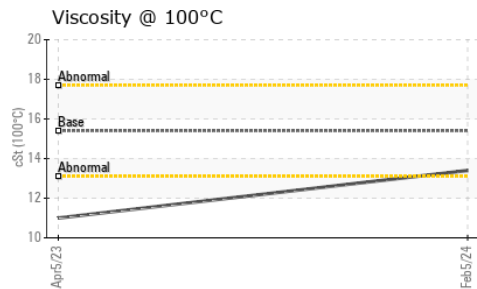
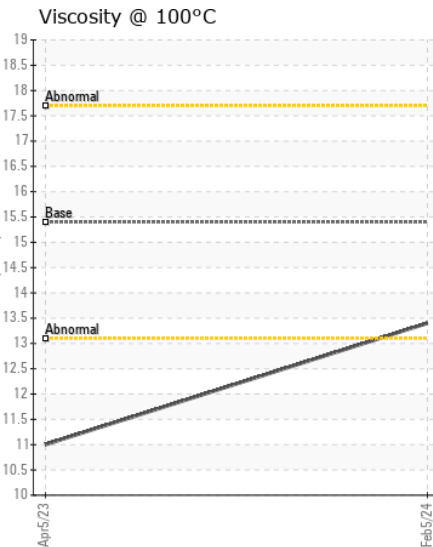
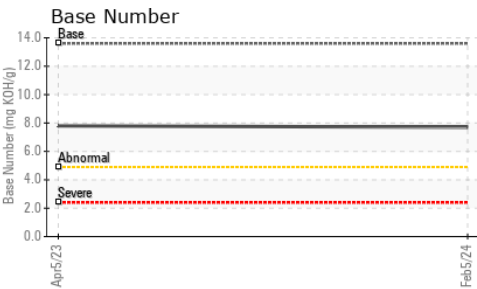
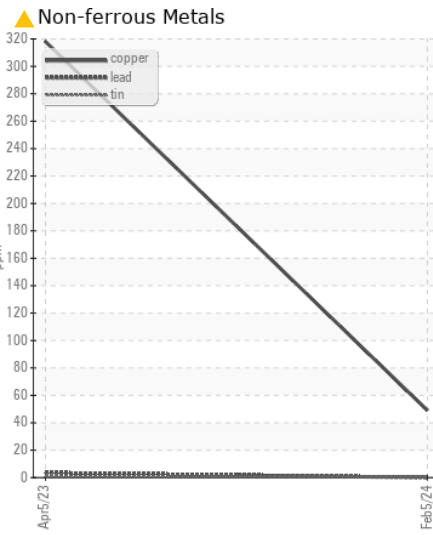
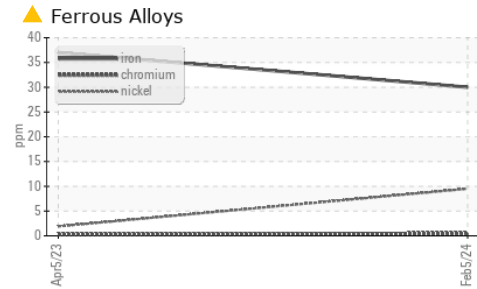
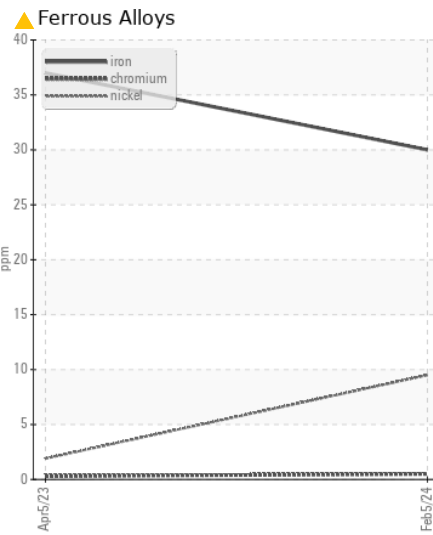
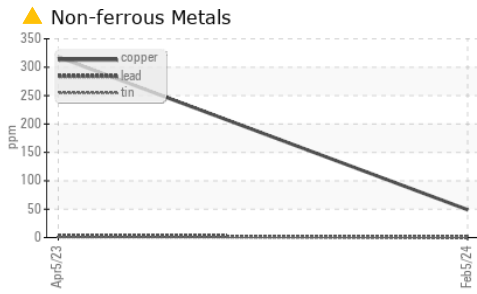
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	9	13	---
Potassium	ppm	ASTM D5185m	>20	3	<1	---
Fuel		WC Method	>2.1	<1.0	0.2	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	24.0	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	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	2	6	---
Boron	ppm	ASTM D5185m		105	176	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		219	217	---
Manganese	ppm	ASTM D5185m		2	6	---
Magnesium	ppm	ASTM D5185m		816	752	---
Calcium	ppm	ASTM D5185m		1313	1492	---
Phosphorus	ppm	ASTM D5185m		845	848	---
Zinc	ppm	ASTM D5185m		1072	1010	---
Sulfur	ppm	ASTM D5185m		2452	2763	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	19.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7	7.8	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	▲ 11.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0197375

Lab Number : 06087112

Unique Number : 10874557

Test Package : CONST (Additional Tests: TBN)

Received : 13 Feb 2024

Tested : 14 Feb 2024

Diagnosed : 14 Feb 2024 - Don Baldrige

JRE - GARNER

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

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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)