



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W65102]

Machine Id

A30G753470

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W65102)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0205706	JR0189167	---
Sample Date		Client Info		18 Mar 2024	13 Oct 2023	---
Machine Age	hrs	Client Info		1095	593	---
Oil Age	hrs	Client Info		502	593	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	26	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	2	---
Aluminum	ppm	ASTM D5185m	>20	2	2	---
Lead	ppm	ASTM D5185m	>40	0	5	---
Copper	ppm	ASTM D5185m	>330	61	▲ 329	---
Tin	ppm	ASTM D5185m	>15	0	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

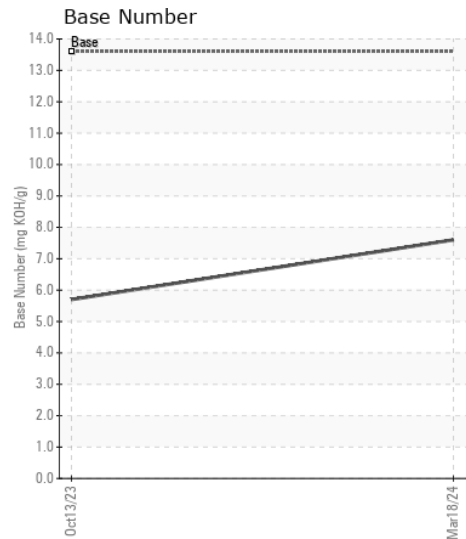
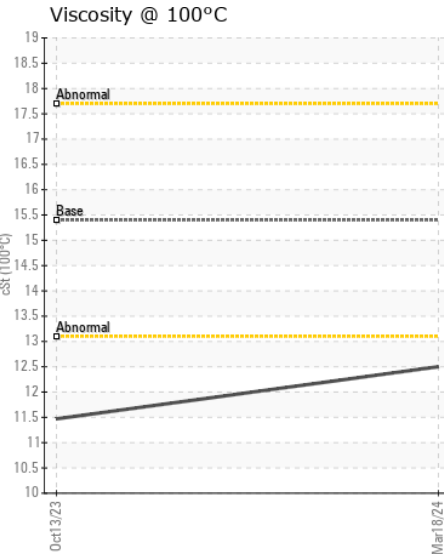
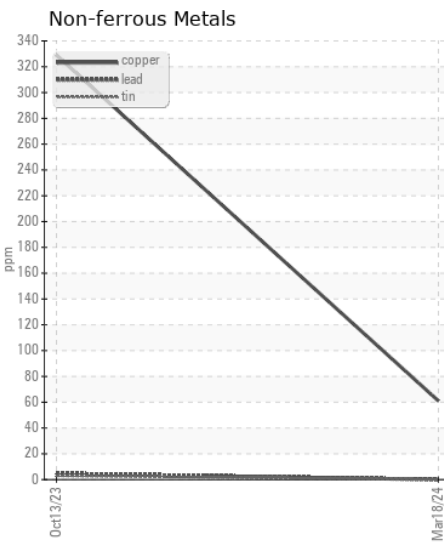
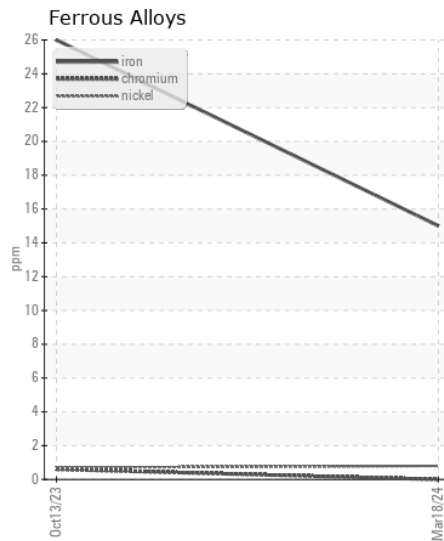
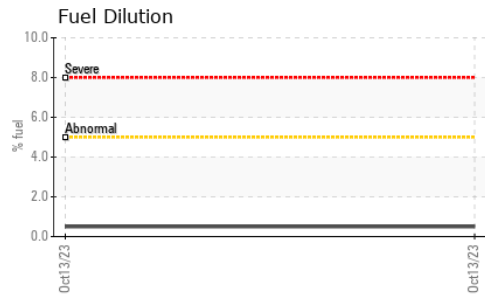
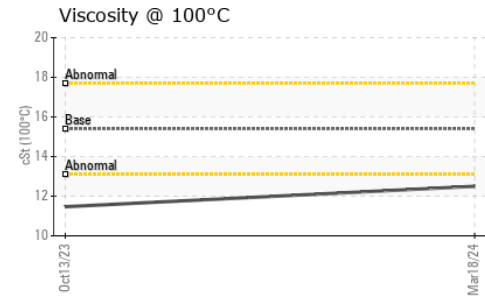
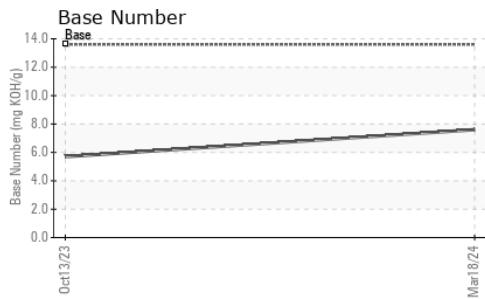
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	26	---
Potassium	ppm	ASTM D5185m	>20	<1	3	---
Fuel	%	ASTM D3524	>5	<1.0	0.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	8.5	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	19.2	---
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	>0.2	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		3	3	---
Boron	ppm	ASTM D5185m		199	75	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		220	90	---
Manganese	ppm	ASTM D5185m		<1	5	---
Magnesium	ppm	ASTM D5185m		741	91	---
Calcium	ppm	ASTM D5185m		1524	1956	---
Phosphorus	ppm	ASTM D5185m		944	968	---
Zinc	ppm	ASTM D5185m		1093	1200	---
Sulfur	ppm	ASTM D5185m		3522	3600	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	14.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.6	5.7	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.5	● 11.47	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205706 **Received** : 20 Mar 2024
Lab Number : 06123319 **Tested** : 22 Mar 2024
Unique Number : 10937470 **Diagnosed** : 22 Mar 2024 - Sean Felton
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)