



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**Store 9 - Marietta**

Machine Id

**JOHN DEERE 6068 PE6068U098693**

Component

**Diesel Engine**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0047271</b>	LEC0044881	---
Sample Date		Client Info		<b>08 Jan 2024</b>	06 Nov 2023	---
Machine Age	hrs	Client Info		<b>1230</b>	1221	---
Oil Age	hrs	Client Info		<b>9</b>	500	---
Filter Age	hrs	Client Info		<b>9</b>	500	---
Oil Changed		Client Info		<b>Not Changd</b>	Changed	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>7</b>	9	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	4	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>26	<b>4</b>	24	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

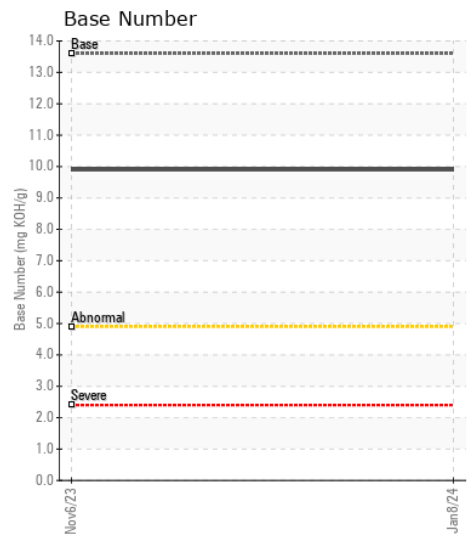
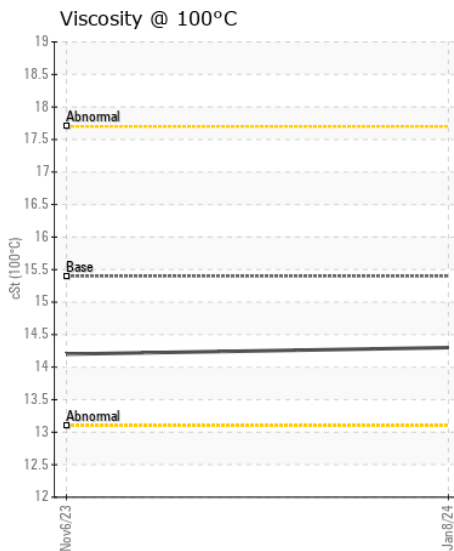
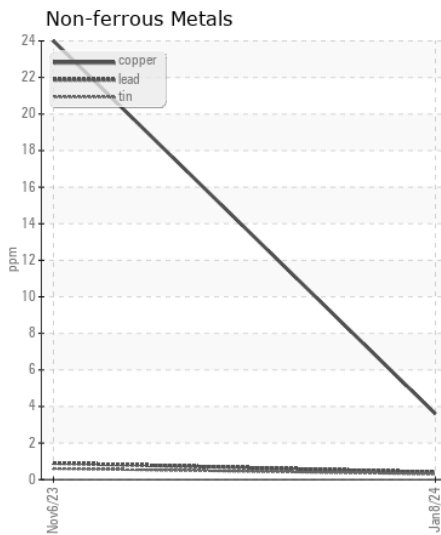
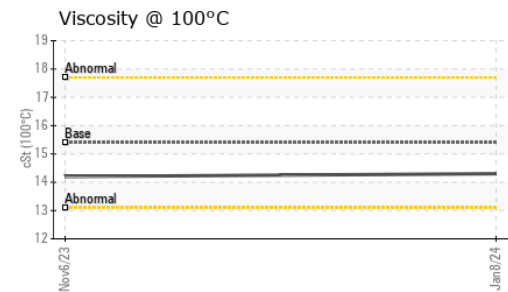
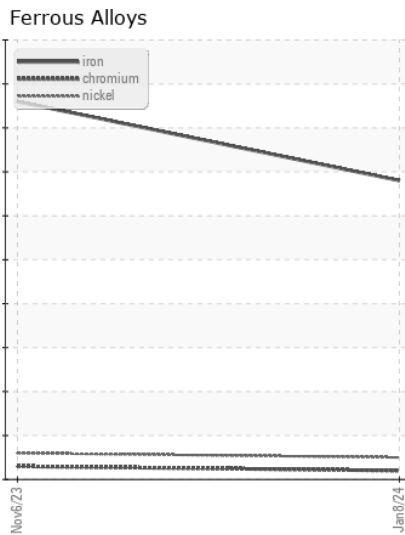
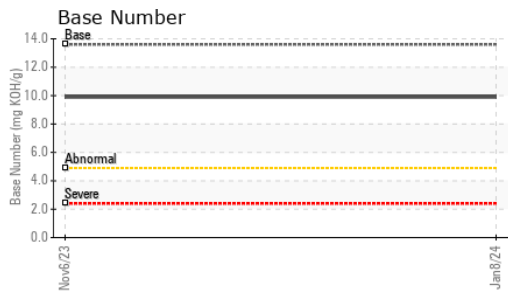
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>8</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.7</b>	6.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.8</b>	20.3	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	NEG	---

## 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.

Sodium	ppm	ASTM D5185m	>31	<b>3</b>	0	---
Boron	ppm	ASTM D5185m		<b>329</b>	233	---
Barium	ppm	ASTM D5185m		<b>3</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>250</b>	206	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>758</b>	710	---
Calcium	ppm	ASTM D5185m		<b>1418</b>	1485	---
Phosphorus	ppm	ASTM D5185m		<b>919</b>	941	---
Zinc	ppm	ASTM D5185m		<b>1083</b>	1103	---
Sulfur	ppm	ASTM D5185m		<b>3449</b>	2905	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.4</b>	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.9</b>	9.9	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.3</b>	14.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047271 **Received** : 12 Jan 2024  
**Lab Number** : 06059163 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10830545 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**LESLIE EQUIPMENT COMPANY**  
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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)