



# OIL ANALYSIS REPORT

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



Machine Id  
**1FF250GXLKF611065**  
Component  
**Diesel Engine**  
Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0049358</b>	LEC0004923	---
Sample Date		Client Info		<b>22 May 2024</b>	03 Sep 2019	---
Machine Age	hrs	Client Info		<b>4452</b>	684	---
Oil Age	hrs	Client Info		<b>500</b>	684	---
Filter Age	hrs	Client Info		<b>500</b>	684	---
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	---
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>54</b>	62	---
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	2	---
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	3	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>1</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	7	---
Lead	ppm	ASTM D5185m	>26	<b>1</b>	2	---
Copper	ppm	ASTM D5185m	>26	<b>5</b>	▲ 251	---
Tin	ppm	ASTM D5185m	>4	<b>2</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

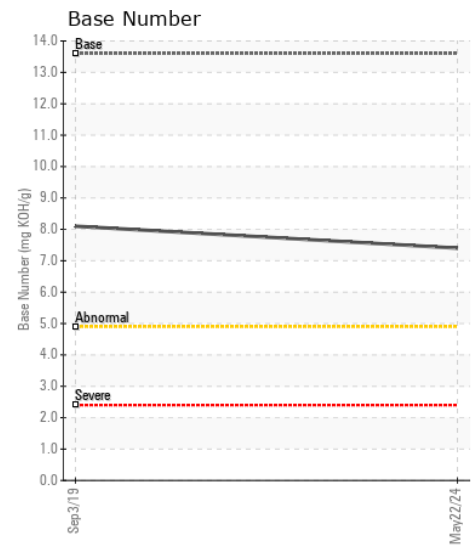
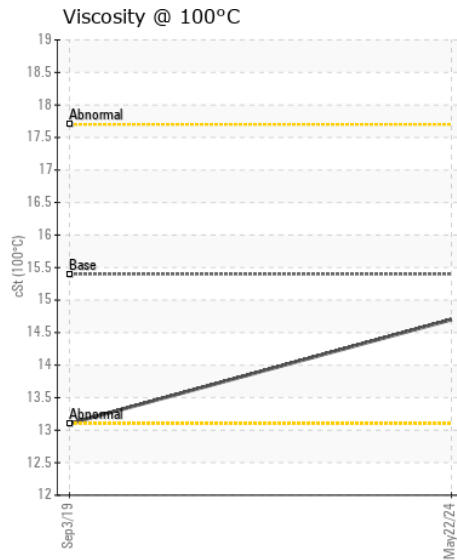
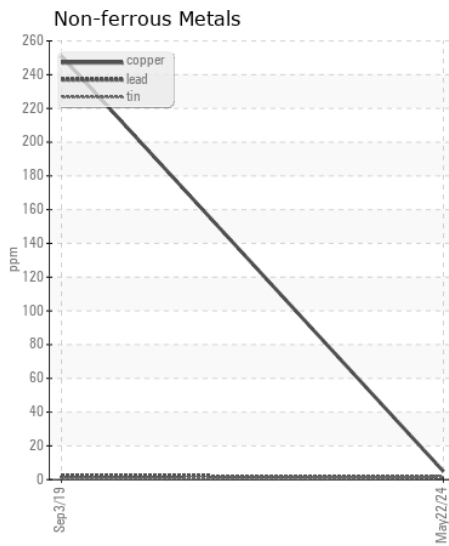
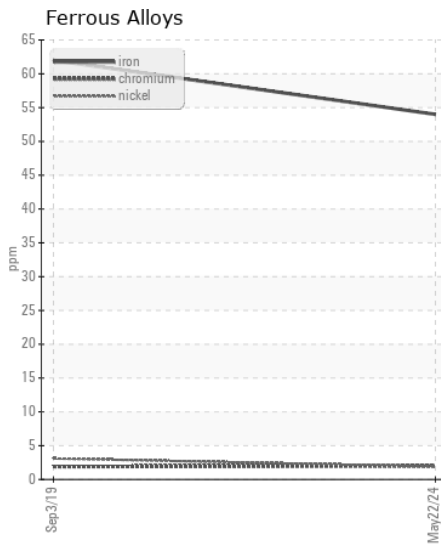
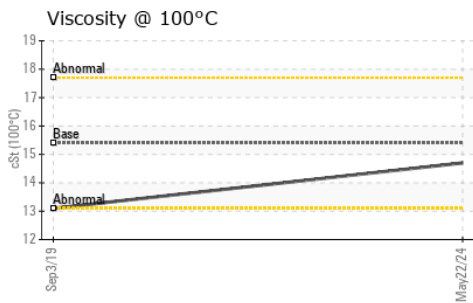
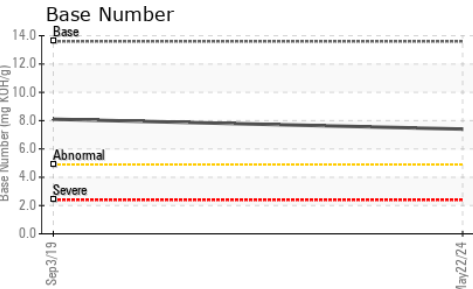
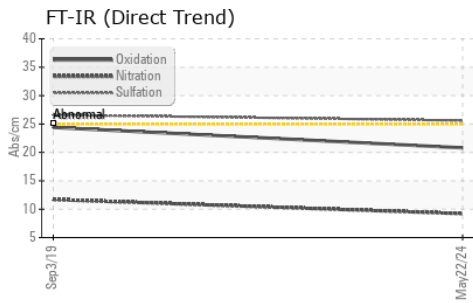
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>13</b>	12	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	0	---
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>0.6</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.2</b>	11.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.6</b>	26.6	---
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>6</b>	10	---
Boron	ppm	ASTM D5185m		<b>177</b>	38	---
Barium	ppm	ASTM D5185m		<b>1</b>	2	---
Molybdenum	ppm	ASTM D5185m		<b>100</b>	205	---
Manganese	ppm	ASTM D5185m		<b>1</b>	4	---
Magnesium	ppm	ASTM D5185m		<b>530</b>	901	---
Calcium	ppm	ASTM D5185m		<b>1408</b>	1664	---
Phosphorus	ppm	ASTM D5185m		<b>1065</b>	972	---
Zinc	ppm	ASTM D5185m		<b>1323</b>	1125	---
Sulfur	ppm	ASTM D5185m		<b>3106</b>	2322	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.8</b>	24.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.4</b>	8.1	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.7</b>	13.1	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049358 **Received** : 28 May 2024  
**Lab Number** : 06191962 **Tested** : 29 May 2024  
**Unique Number** : 11048714 **Diagnosed** : 30 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com

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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