



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Store 4 - Fairmont

Machine Id  
**JOHN%252525252525252 1FF210GXLNF530390**

Component  
**Diesel Engine**

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

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0050142</b>	LEC0045276	---
Sample Date		Client Info		<b>26 Jun 2024</b>	04 Oct 2023	---
Machine Age	hrs	Client Info		<b>841</b>	527	---
Oil Age	hrs	Client Info		<b>314</b>	527	---
Filter Age	hrs	Client Info		<b>314</b>	527	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>37</b>	71	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	2	---
Nickel	ppm	ASTM D5185m	>4	<b>11</b>	10	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	5	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>96</b>	▲ 408	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	---
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**

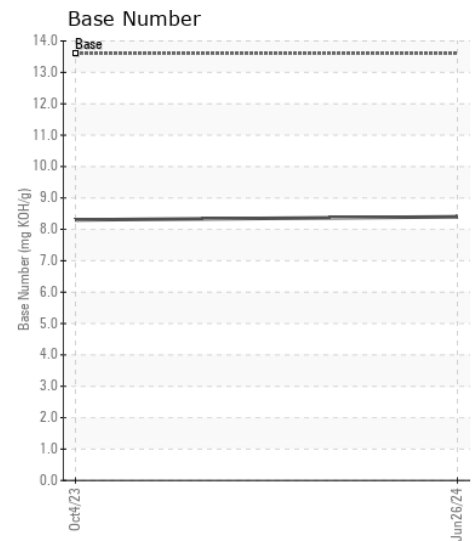
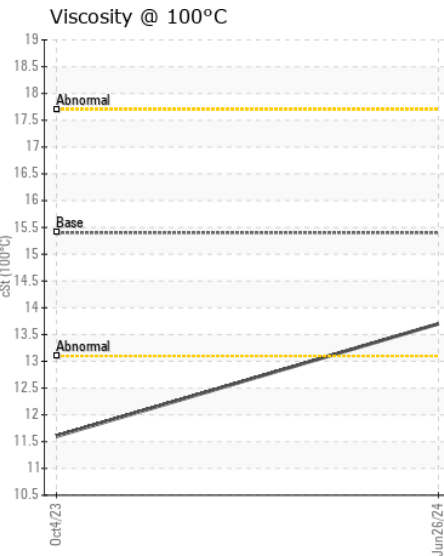
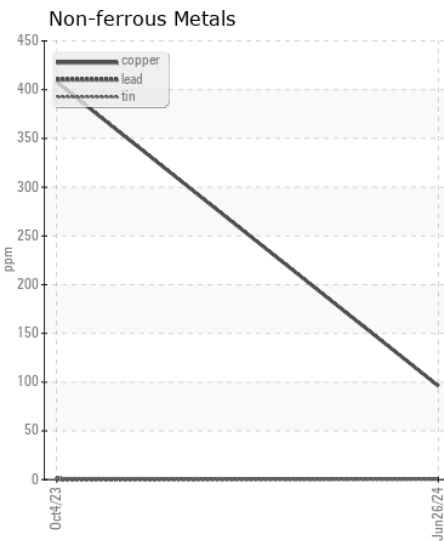
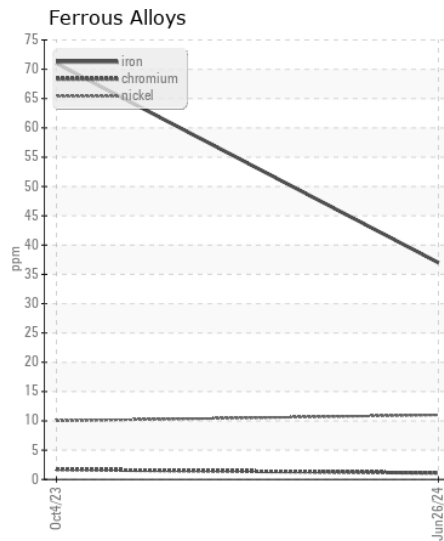
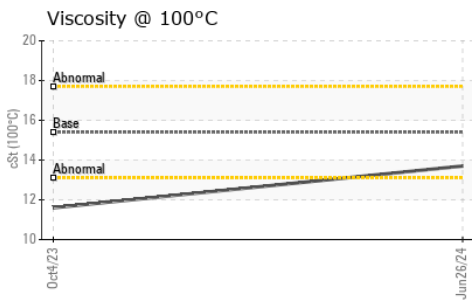
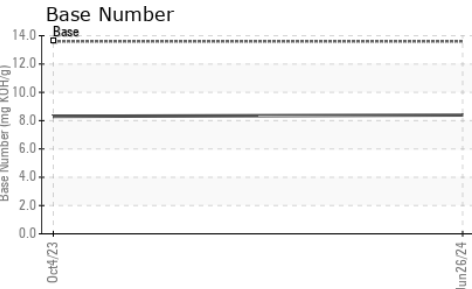
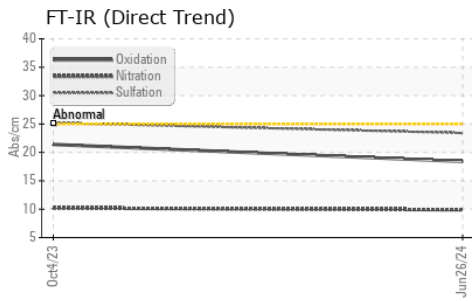
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>7</b>	11	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	0.4	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.9</b>	10.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.4</b>	25.2	---
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	>0.2	<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		<b>5</b>	8	---
Boron	ppm	ASTM D5185m		<b>192</b>	125	---
Barium	ppm	ASTM D5185m		<b>1</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>269</b>	198	---
Manganese	ppm	ASTM D5185m		<b>2</b>	5	---
Magnesium	ppm	ASTM D5185m		<b>887</b>	707	---
Calcium	ppm	ASTM D5185m		<b>1959</b>	1727	---
Phosphorus	ppm	ASTM D5185m		<b>1078</b>	960	---
Zinc	ppm	ASTM D5185m		<b>1324</b>	1206	---
Sulfur	ppm	ASTM D5185m		<b>3928</b>	2919	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.4</b>	21.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.4</b>	8.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.7</b>	● 11.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0050142 **Received** : 28 Jun 2024  
**Lab Number** : 06223250 **Tested** : 28 Jun 2024  
**Unique Number** : 11101447 **Diagnosed** : 28 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

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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