



# OIL ANALYSIS REPORT

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



Area  
**Store 6 - Ashland**  
Machine Id  
**JOHN DEERE 130G 1FF130GXLKF042414**  
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>LEC0048211</b>	LEC0033830	---
Sample Date		Client Info		<b>11 Apr 2024</b>	12 Oct 2022	---
Machine Age	hrs	Client Info		<b>840</b>	519	---
Oil Age	hrs	Client Info		<b>321</b>	519	---
Filter Age	hrs	Client Info		<b>321</b>	519	---
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	>51	<b>38</b>	64	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>7</b>	7	---
Lead	ppm	ASTM D5185m	>26	<b>1</b>	7	---
Copper	ppm	ASTM D5185m	>26	<b>17</b>	▲ 108	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	3	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

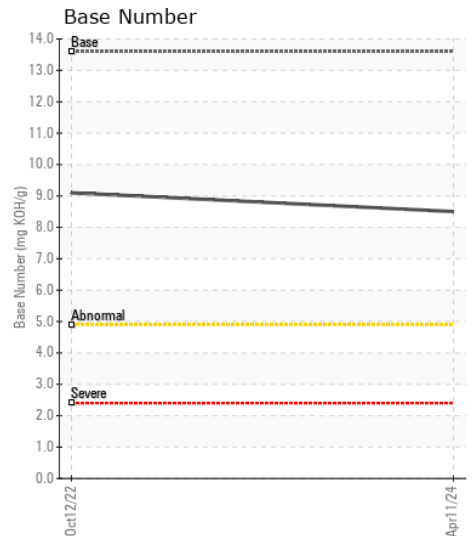
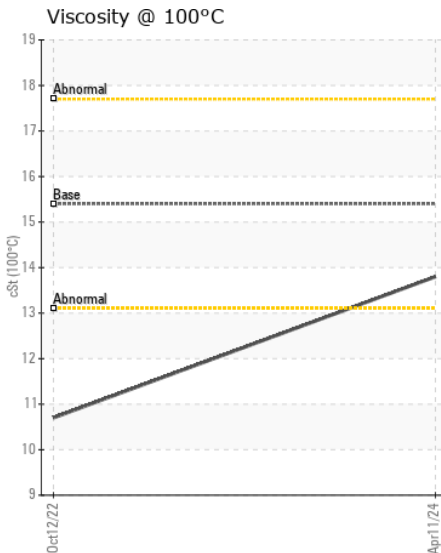
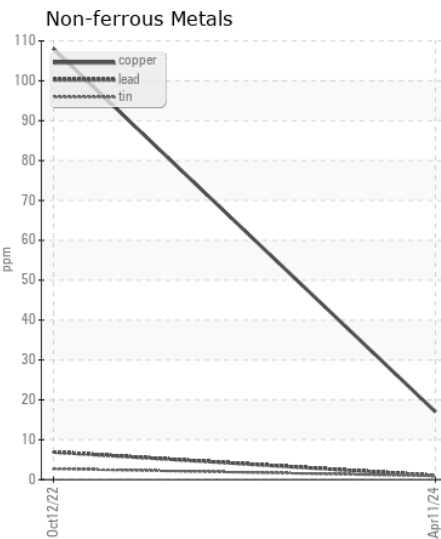
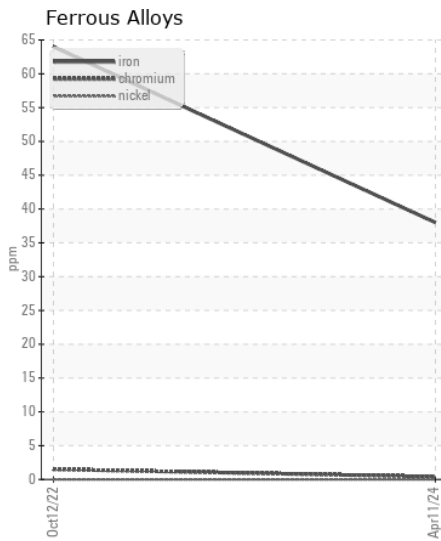
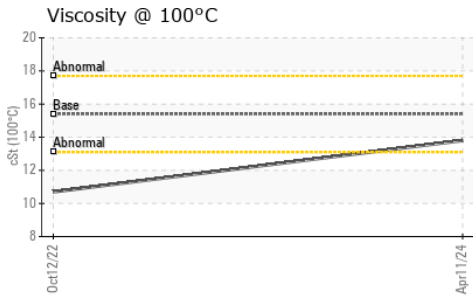
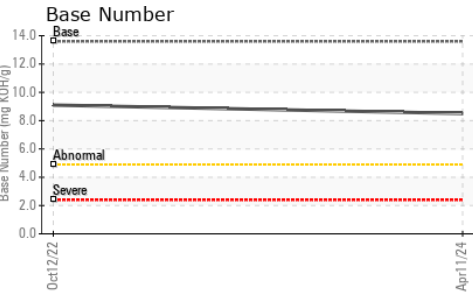
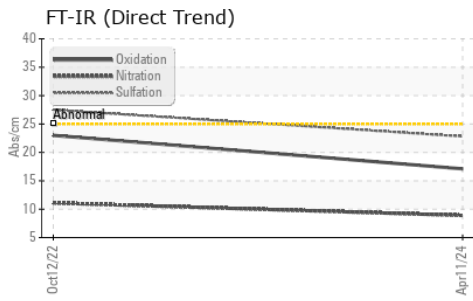
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>8</b>	11	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	0.8	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	11.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.8</b>	27.5	---
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>4</b>	5	---
Boron	ppm	ASTM D5185m		<b>242</b>	180	---
Barium	ppm	ASTM D5185m		<b>2</b>	2	---
Molybdenum	ppm	ASTM D5185m		<b>267</b>	252	---
Manganese	ppm	ASTM D5185m		<b>2</b>	5	---
Magnesium	ppm	ASTM D5185m		<b>890</b>	814	---
Calcium	ppm	ASTM D5185m		<b>1455</b>	1545	---
Phosphorus	ppm	ASTM D5185m		<b>971</b>	795	---
Zinc	ppm	ASTM D5185m		<b>1143</b>	998	---
Sulfur	ppm	ASTM D5185m		<b>3598</b>	3309	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.1</b>	23.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.5</b>	9.1	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	● 10.7	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0048211 **Received** : 15 Apr 2024  
**Lab Number** : 06149260 **Tested** : 16 Apr 2024  
**Unique Number** : 10979338 **Diagnosed** : 16 Apr 2024 - Wes Davis  
**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) F: (740)373-5570