



# OIL ANALYSIS REPORT

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



Area  
**Store 4 - Fairmont**  
Machine Id  
**JOHN DEERE 350GL 1FF350GXJKF814116**  
Component  
**Diesel Engine**  
Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0046584</b>	LEC0038089	LEC0032070
Sample Date		Client Info		<b>29 Dec 2023</b>	11 Jan 2023	03 Aug 2022
Machine Age	hrs	Client Info		<b>1460</b>	923	457
Oil Age	hrs	Client Info		<b>537</b>	426	457
Filter Age	hrs	Client Info		<b>537</b>	426	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	<b>110</b>	69	111
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	1	2
Nickel	ppm	ASTM D5185m	>5	<b>4</b>	5	13
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>31	<b>7</b>	4	6
Lead	ppm	ASTM D5185m	>26	<b>2</b>	2	3
Copper	ppm	ASTM D5185m	>26	<b>12</b>	34	▲ 135
Tin	ppm	ASTM D5185m	>4	<b>1</b>	2	5
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

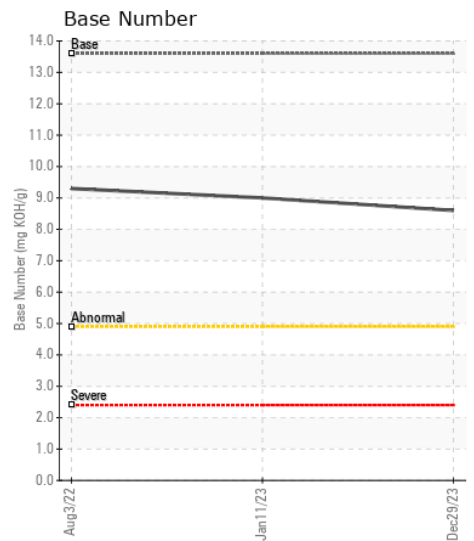
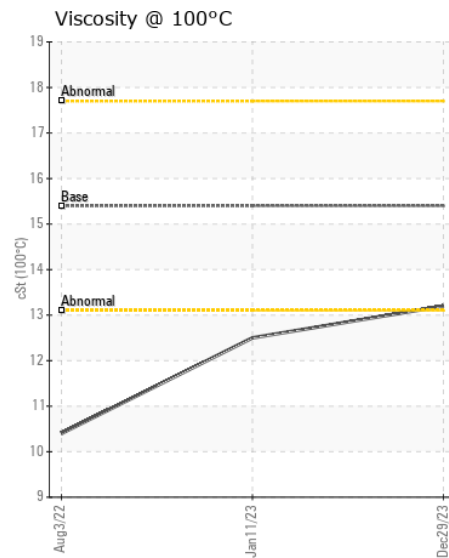
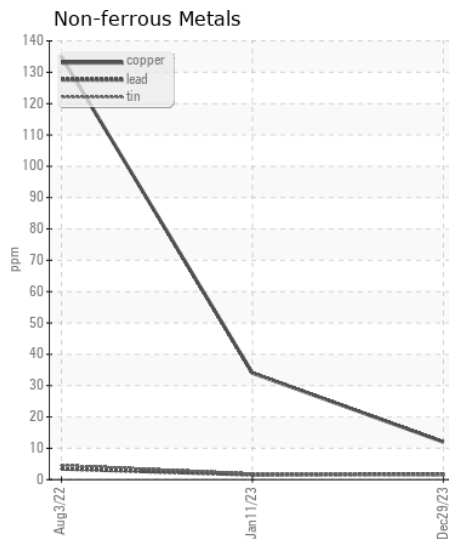
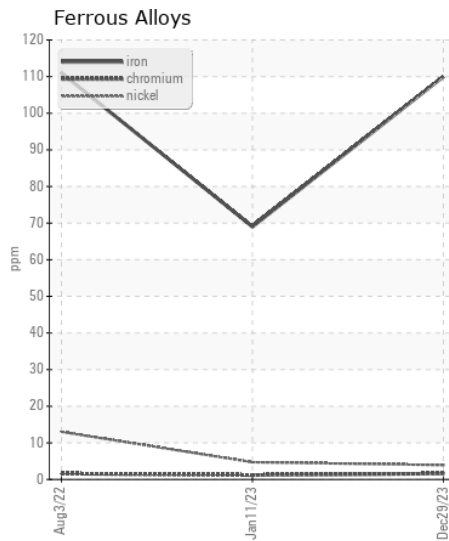
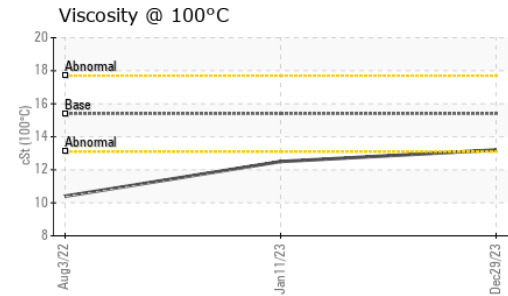
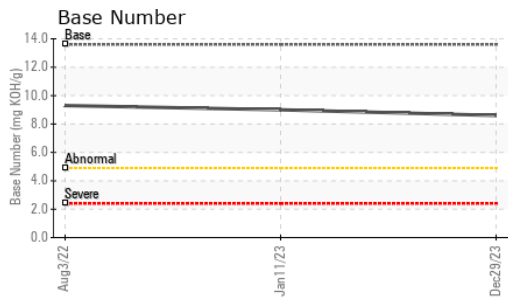
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>10</b>	7	11
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	3	14
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.4</b>	9.0	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.8</b>	22.0	25.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	NEG	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>	3	9
Boron	ppm	ASTM D5185m		<b>211</b>	187	229
Barium	ppm	ASTM D5185m		<b>4</b>	0	3
Molybdenum	ppm	ASTM D5185m		<b>297</b>	248	239
Manganese	ppm	ASTM D5185m		<b>2</b>	1	3
Magnesium	ppm	ASTM D5185m		<b>928</b>	787	736
Calcium	ppm	ASTM D5185m		<b>1696</b>	1683	1435
Phosphorus	ppm	ASTM D5185m		<b>996</b>	897	790
Zinc	ppm	ASTM D5185m		<b>1260</b>	1100	997
Sulfur	ppm	ASTM D5185m		<b>3603</b>	3349	2842
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.0</b>	16.9	21.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.6</b>	9.0	9.3
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.2</b>	12.5	▲ 10.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0046584 **Received** : 12 Jan 2024  
**Lab Number** : 06059128 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10830510 **Diagnostician** : Wes Davis  
**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)