



# OIL ANALYSIS REPORT

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



Area  
**Store 3 - Norton [116010]**  
Machine Id  
**JOHN DEERE 135G 1FF135GXAJF501208**  
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>LEC0019584</b>	LEC0010968	---
Sample Date		Client Info		<b>06 May 2021</b>	20 Mar 2020	---
Machine Age	hrs	Client Info		<b>996</b>	490	---
Oil Age	hrs	Client Info		<b>506</b>	490	---
Filter Age	hrs	Client Info		<b>506</b>	490	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	<b>9</b>	13	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>31	<b>0</b>	3	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>26	<b>6</b>	15	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</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

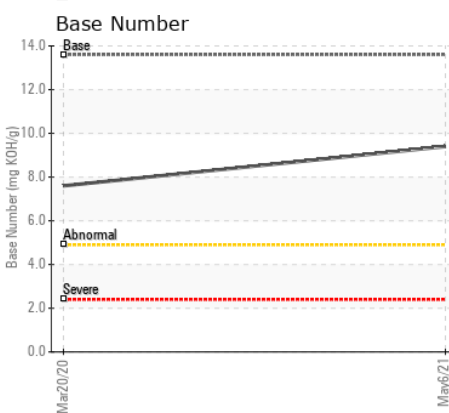
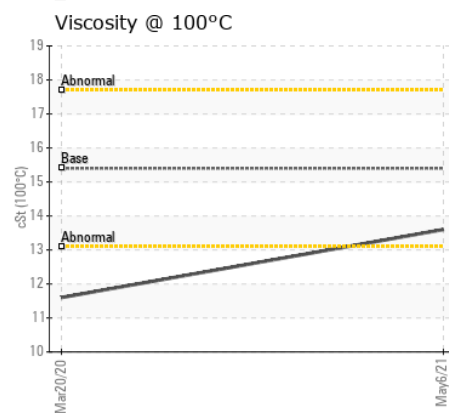
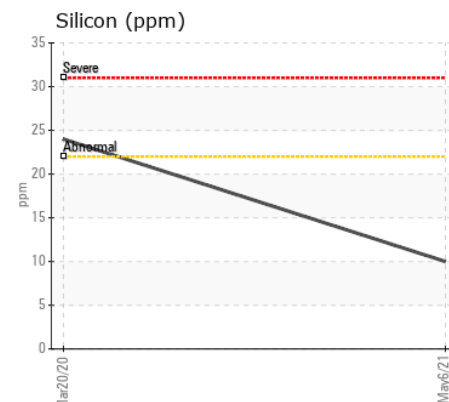
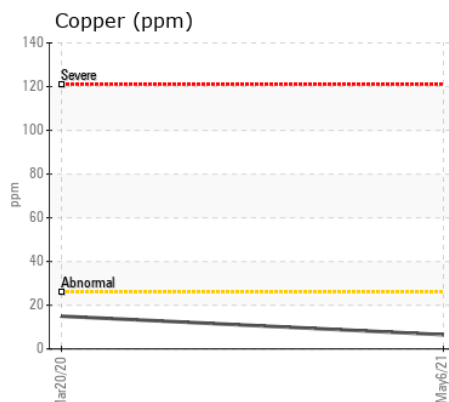
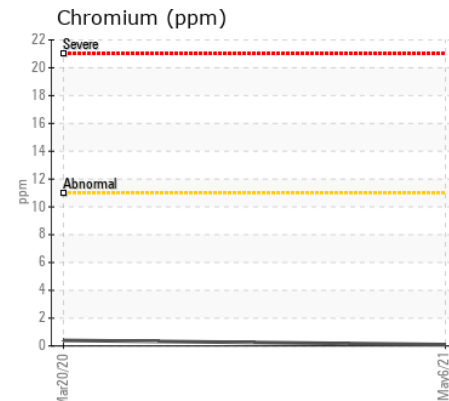
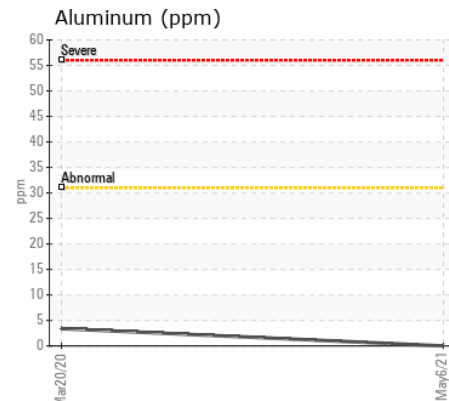
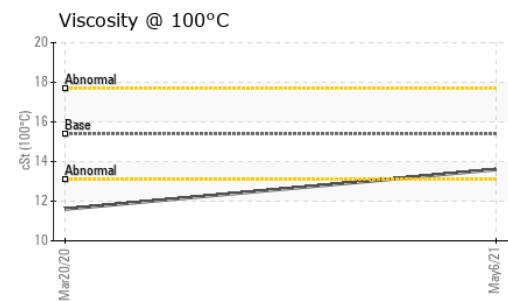
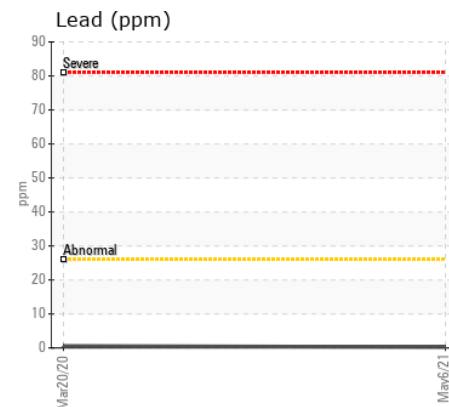
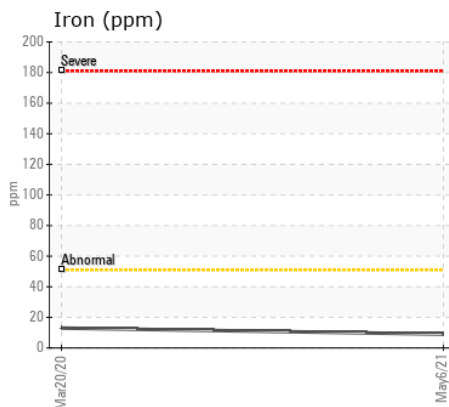
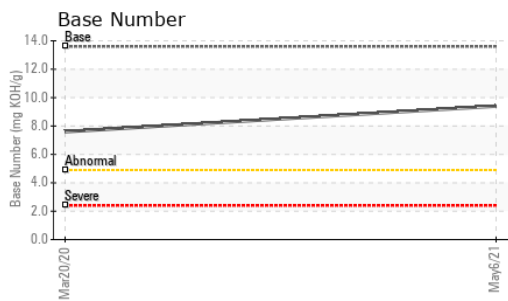
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>10</b>	24	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	5	---
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>0.1</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	7.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.6</b>	18.2	---
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	>0.21	<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>&lt;1</b>	4	---
Boron	ppm	ASTM D5185m		<b>272</b>	152	---
Barium	ppm	ASTM D5185m		<b>0</b>	3	---
Molybdenum	ppm	ASTM D5185m		<b>246</b>	32	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>716</b>	103	---
Calcium	ppm	ASTM D5185m		<b>1693</b>	2491	---
Phosphorus	ppm	ASTM D5185m		<b>921</b>	972	---
Zinc	ppm	ASTM D5185m		<b>1043</b>	1061	---
Sulfur	ppm	ASTM D5185m		<b>2627</b>	2511	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.8</b>	11	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.4</b>	7.6	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.6</b>	11.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0019584 **Received** : 11 May 2021  
**Lab Number** : 05251222 **Diagnosed** : 12 May 2021  
**Unique Number** : 9500132 **Diagnostician** : Wes Davis  
**Test Package** : MOBCE ( Additional Tests: TBN )

**US FOREST SERVICE**  
 200 SYCAMORE ST  
 ELKINS, WV  
 US 26241  
 Contact: SERVICE MANAGER

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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F: