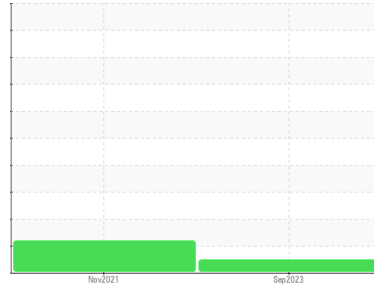


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**JOHN DEERE 848L 1DW848LBLMF710505**

Component  
**Diesel Engine**

Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil.

**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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>JR0179435</b>	JR0107090	---
Sample Date	Client Info			<b>29 Sep 2023</b>	05 Nov 2021	---
Machine Age	hrs	Client Info		<b>4185</b>	551	---
Oil Age	hrs	Client Info		<b>0</b>	551	---
Oil Changed	Client Info			<b>Not Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>2.1		<b>&lt;1.0</b>	0.0	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	<b>4</b>	53	---
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	1	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	▲ 16	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>3</b>	8	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	4	---
Copper	ppm	ASTM D5185m	>26	<b>0</b>	66	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Antimony	ppm	ASTM D5185m		<b>---</b>	3	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

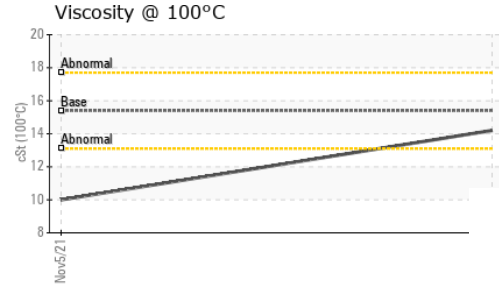
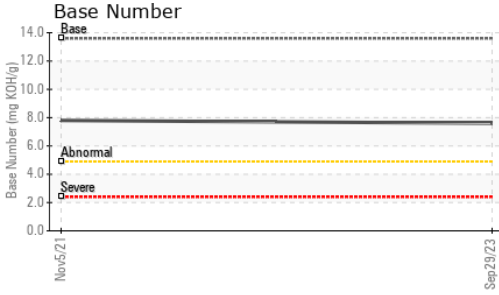
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>119</b>	135	---
Barium	ppm	ASTM D5185m		<b>0</b>	4	---
Molybdenum	ppm	ASTM D5185m		<b>50</b>	244	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m		<b>81</b>	928	---
Calcium	ppm	ASTM D5185m		<b>2094</b>	1615	---
Phosphorus	ppm	ASTM D5185m		<b>1093</b>	881	---
Zinc	ppm	ASTM D5185m		<b>1319</b>	1064	---
Sulfur	ppm	ASTM D5185m		<b>4025</b>	3879	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	<b>3</b>	12	---
Sodium	ppm	ASTM D5185m	>31	<b>&lt;1</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	26	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.4</b>	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.7</b>	22.2	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.6</b>	16.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.6</b>	7.8	---

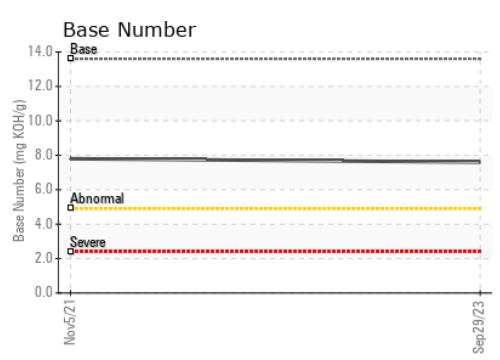
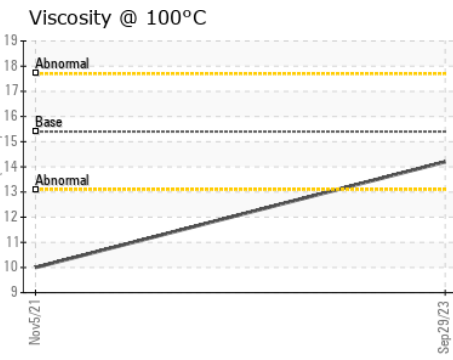
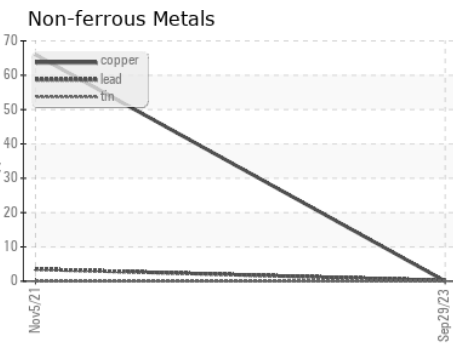
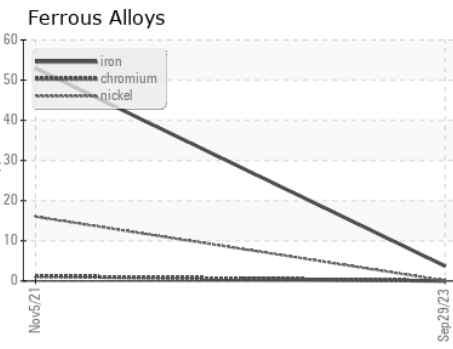
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	▲ 10.0	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0179435 **Received** : 04 Oct 2023  
**Lab Number** : **05968678** **Diagnosed** : 06 Oct 2023  
**Unique Number** : 10675229 **Diagnostician** : Jonathan Hester  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - ASHLAND**  
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 T: (804)798-6001  
 F: (804)798-0292

Certificate L2367  
 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)