



# OIL ANALYSIS REPORT

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



Area  
**[144237]**  
 Machine Id  
**JOHN DEERE 210GLC 1FF210GXPNF529831**  
 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>LEC0044301</b>	LEC0042451	LEC0033390
Sample Date		Client Info		<b>18 Oct 2023</b>	31 May 2023	03 Oct 2022
Machine Age	hrs	Client Info		<b>1724</b>	1113	597
Oil Age	hrs	Client Info		<b>611</b>	1113	597
Filter Age	hrs	Client Info		<b>611</b>	1113	597
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Cleaned</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>34</b>	31	52
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m	>5	<b>5</b>	8	10
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	4	5
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>26	<b>20</b>	77	▲ 413
Tin	ppm	ASTM D5185m	>4	<b>1</b>	2	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

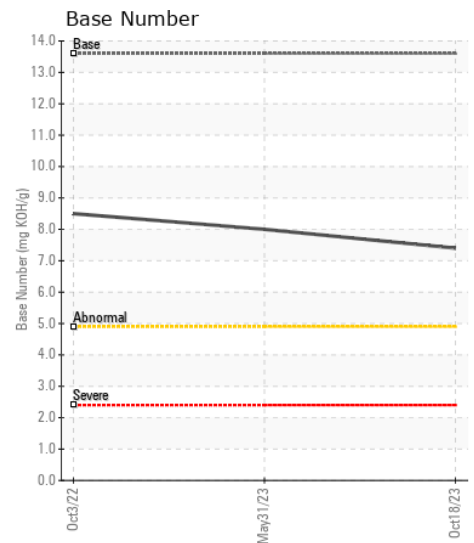
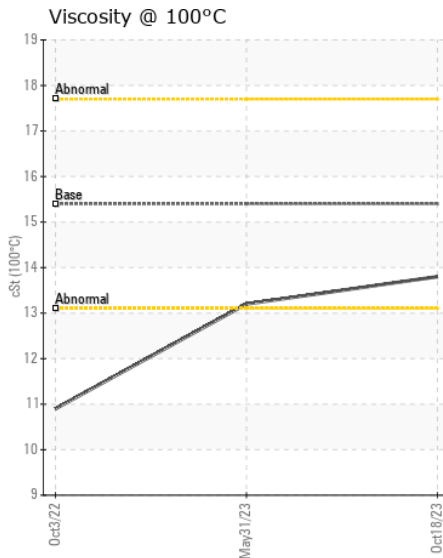
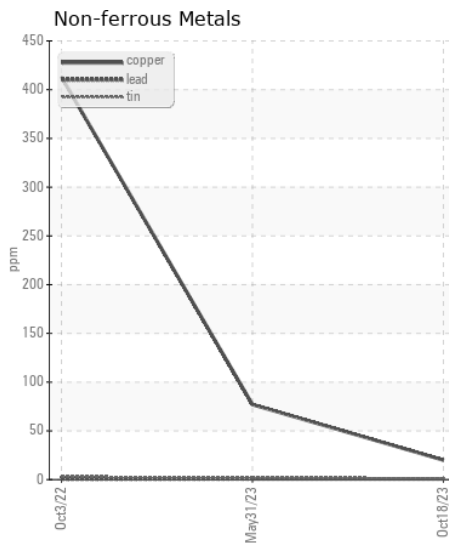
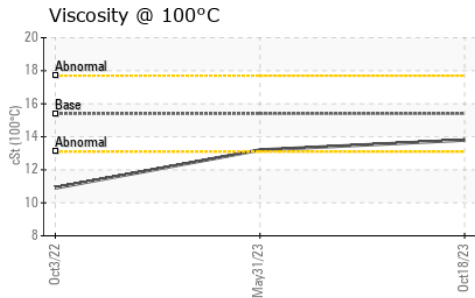
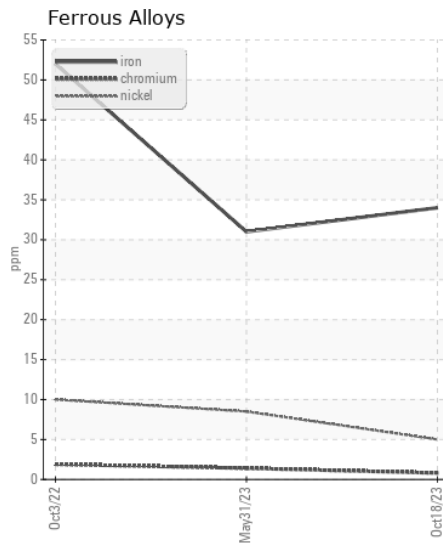
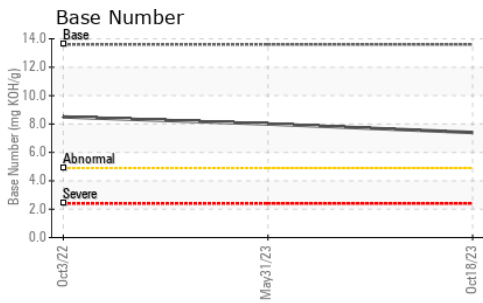
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>8</b>	8	12
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	5
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.7
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	10.5	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.2</b>	24.3	28.3
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>1</b>	4	4
Boron	ppm	ASTM D5185m		<b>83</b>	143	110
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>251</b>	240	224
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	5
Magnesium	ppm	ASTM D5185m		<b>829</b>	834	668
Calcium	ppm	ASTM D5185m		<b>1603</b>	1613	1788
Phosphorus	ppm	ASTM D5185m		<b>949</b>	909	935
Zinc	ppm	ASTM D5185m		<b>1195</b>	1191	1142
Sulfur	ppm	ASTM D5185m		<b>3425</b>	3026	3346
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.5</b>	19.6	24.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.4</b>	8.0	8.5
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	13.2	▲ 10.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0044301 **Received** : 23 Oct 2023  
**Lab Number** : 05986282 **Tested** : 24 Oct 2023  
**Unique Number** : 10708944 **Diagnosed** : 24 Oct 2023 - 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)

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