



# OIL ANALYSIS REPORT

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



Machine Id  
**JOHN DEERE 210G 1FF210GXCKF527948**  
 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>LEC0036545</b>	LEC0030055	LEC0026056
Sample Date		Client Info		<b>16 Nov 2022</b>	01 Apr 2022	05 Nov 2021
Machine Age	hrs	Client Info		<b>2345</b>	1282	697
Oil Age	hrs	Client Info		<b>1063</b>	585	697
Filter Age	hrs	Client Info		<b>1063</b>	585	697
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>89</b>	38	96
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>5	<b>4</b>	<1	▲ 22
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	4	7
Lead	ppm	ASTM D5185m	>26	<b>2</b>	<1	<1
Copper	ppm	ASTM D5185m	>26	<b>14</b>	31	▲ 460
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

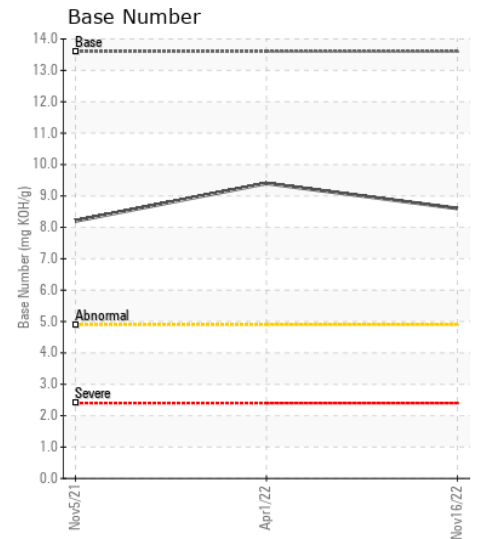
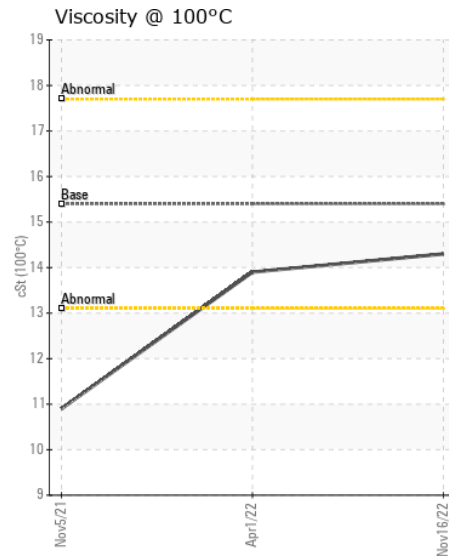
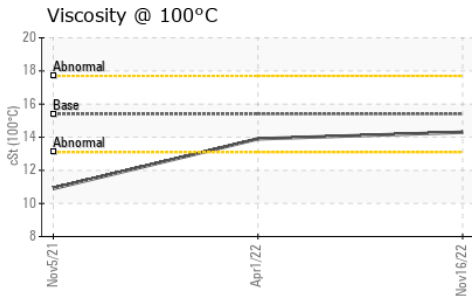
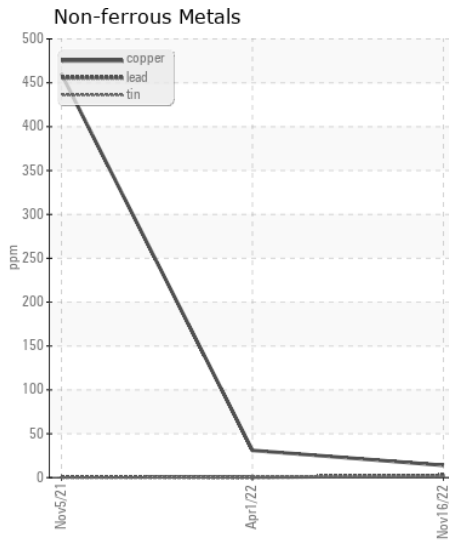
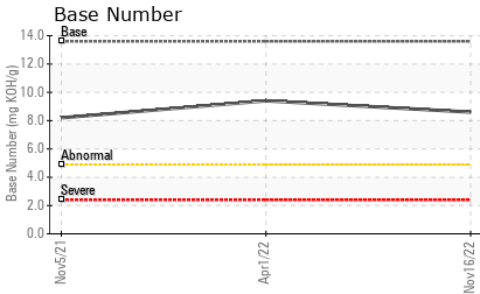
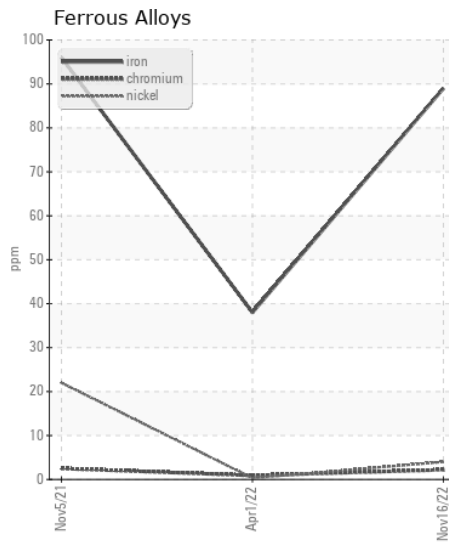
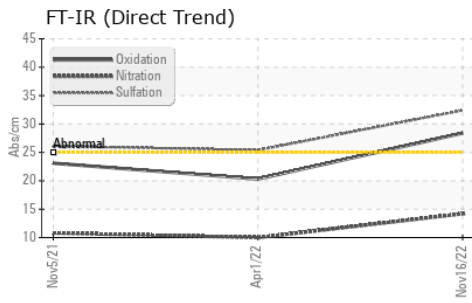
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>9</b>	8	12
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	8
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.5
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.2</b>	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.2</b>	10.0	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>32.4</b>	25.4	26.1
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>4</b>	<1	8
Boron	ppm	ASTM D5185m		<b>29</b>	231	115
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>306</b>	271	214
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	6
Magnesium	ppm	ASTM D5185m		<b>922</b>	835	754
Calcium	ppm	ASTM D5185m		<b>1792</b>	1640	2040
Phosphorus	ppm	ASTM D5185m		<b>1007</b>	985	923
Zinc	ppm	ASTM D5185m		<b>1270</b>	1164	1097
Sulfur	ppm	ASTM D5185m		<b>3635</b>	2354	3743
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>28.4</b>	20.3	23.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.6</b>	9.4	8.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.3</b>	13.9	● 10.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0036545 **Received** : 21 Nov 2022  
**Lab Number** : 05698642 **Tested** : 22 Nov 2022  
**Unique Number** : 10228216 **Diagnosed** : 22 Nov 2022 - Angela Borella  
**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)