



# OIL ANALYSIS REPORT

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



Area  
**Store 4 - Fairmont**  
Machine Id  
**JOHN DEERE 672G 1DW672GXAKF701302**  
Component  
**Diesel Engine**  
Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0034138</b>	LEC0012881	---
Sample Date		Client Info		<b>19 Aug 2022</b>	03 Nov 2020	---
Machine Age	hrs	Client Info		<b>854</b>	428	---
Oil Age	hrs	Client Info		<b>426</b>	428	---
Filter Age	hrs	Client Info		<b>428</b>	428	---
Oil Changed		Client Info		<b>Not Changd</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>64</b>	52	---
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	1	---
Nickel	ppm	ASTM D5185m	>5	<b>4</b>	▲ 16	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>7</b>	7	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m	>26	<b>5</b>	15	---
Tin	ppm	ASTM D5185m	>4	<b>1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

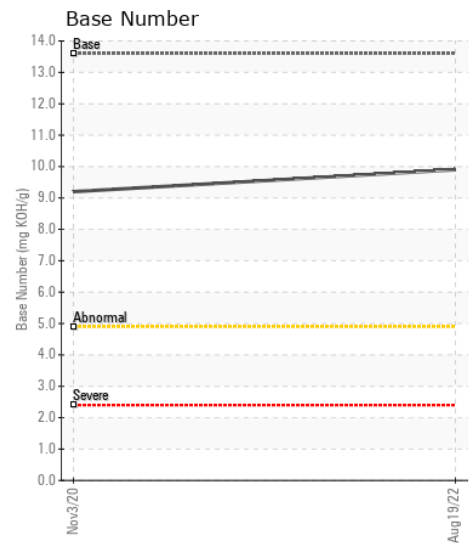
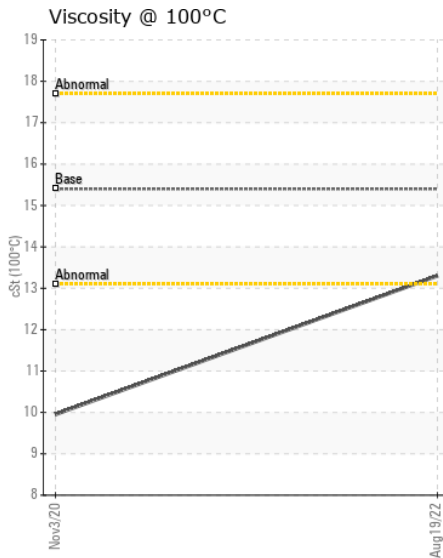
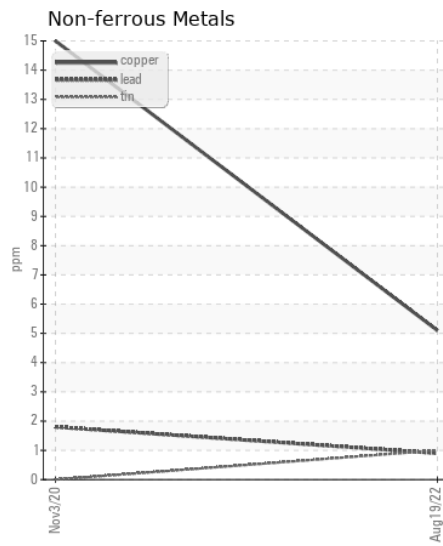
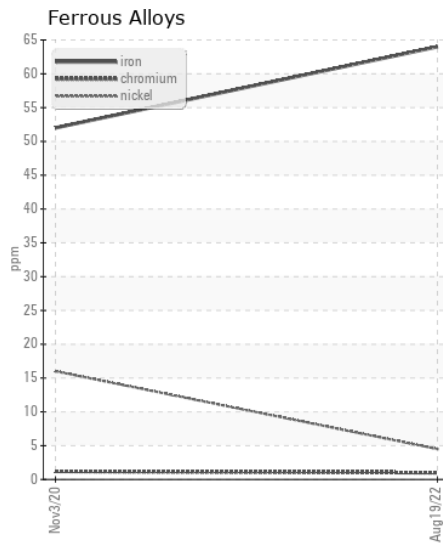
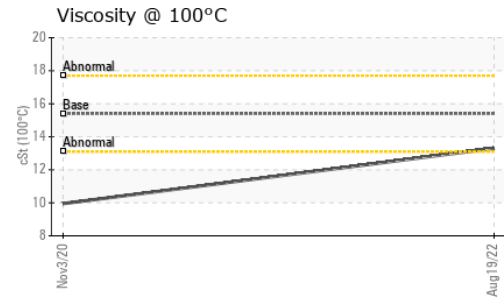
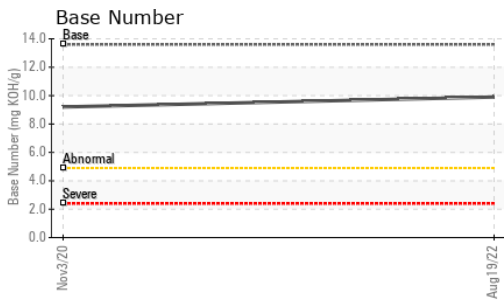
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>7</b>	9	---
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	15	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	0.2	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.2</b>	7.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.7</b>	21.2	---
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>0</b>	9	---
Boron	ppm	ASTM D5185m		<b>211</b>	231	---
Barium	ppm	ASTM D5185m		<b>0</b>	2	---
Molybdenum	ppm	ASTM D5185m		<b>246</b>	249	---
Manganese	ppm	ASTM D5185m		<b>2</b>	3	---
Magnesium	ppm	ASTM D5185m		<b>687</b>	833	---
Calcium	ppm	ASTM D5185m		<b>1438</b>	1553	---
Phosphorus	ppm	ASTM D5185m		<b>850</b>	927	---
Zinc	ppm	ASTM D5185m		<b>998</b>	1051	---
Sulfur	ppm	ASTM D5185m		<b>2796</b>	2608	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.0</b>	15.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.9</b>	9.2	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	▲ 9.95	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0034138 **Received** : 24 Aug 2022  
**Lab Number** : 05626203 **Diagnosed** : 26 Aug 2022  
**Unique Number** : 10110724 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

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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