



# 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 1DW672GXTHF682492**  
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>LEC0047783</b>	LEC0044474	LEC0036553
Sample Date		Client Info		<b>07 Feb 2024</b>	15 Nov 2023	11 Nov 2022
Machine Age	hrs	Client Info		<b>3747</b>	3365	2769
Oil Age	hrs	Client Info		<b>382</b>	596	716
Filter Age	hrs	Client Info		<b>382</b>	596	716
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>21</b>	35	35
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	6	4
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>26	<b>7</b>	2	5
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

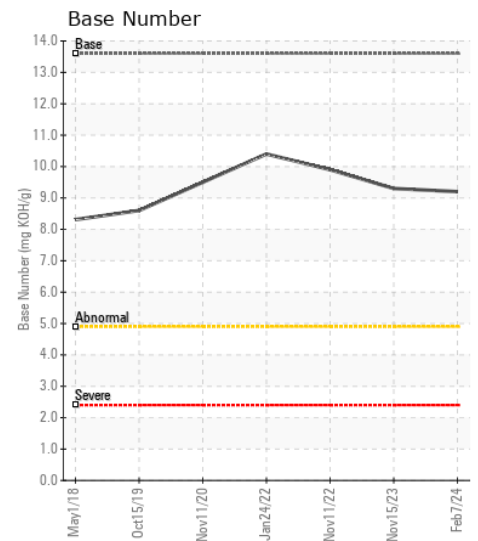
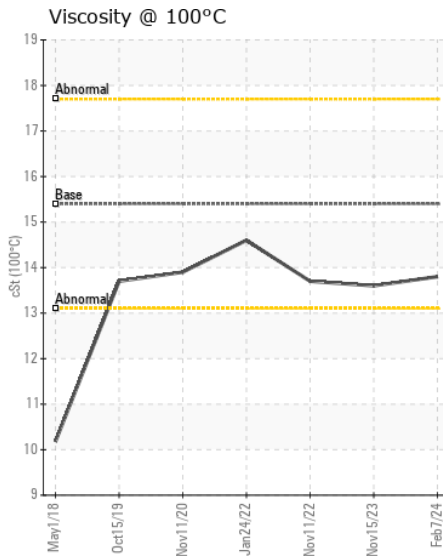
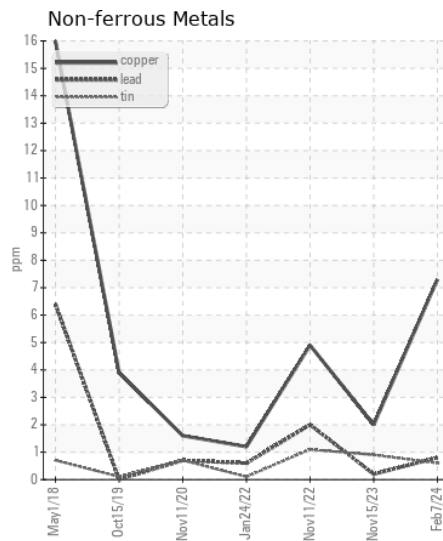
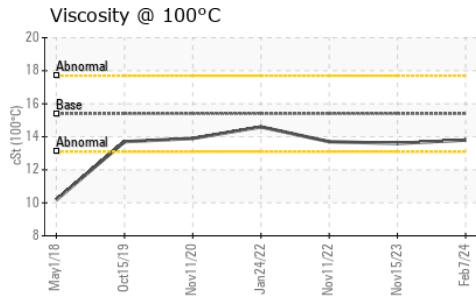
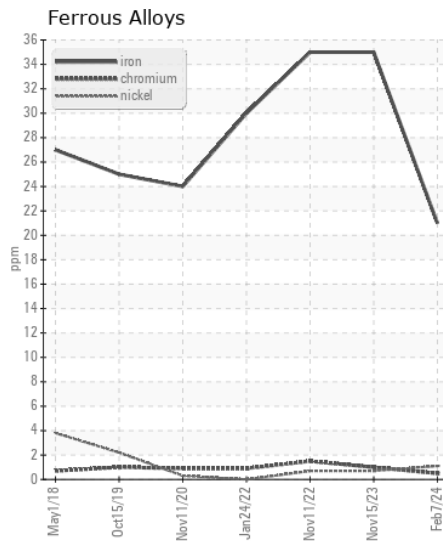
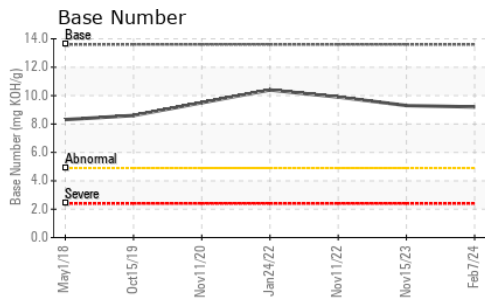
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>7</b>	6	8
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	0
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.5</b>	8.8	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	22.1	24.2
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>0</b>	<1	<1
Boron	ppm	ASTM D5185m		<b>280</b>	212	188
Barium	ppm	ASTM D5185m		<b>14</b>	0	8
Molybdenum	ppm	ASTM D5185m		<b>242</b>	237	214
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>729</b>	806	730
Calcium	ppm	ASTM D5185m		<b>1401</b>	1561	1435
Phosphorus	ppm	ASTM D5185m		<b>953</b>	961	832
Zinc	ppm	ASTM D5185m		<b>1032</b>	1165	997
Sulfur	ppm	ASTM D5185m		<b>3512</b>	3088	2929
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	16.6	18.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.2</b>	9.3	9.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	13.6	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047783 **Received** : 12 Feb 2024  
**Lab Number** : 06085720 **Tested** : 12 Feb 2024  
**Unique Number** : 10873165 **Diagnosed** : 12 Feb 2024 - 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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