



# OIL ANALYSIS REPORT

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

Area

**Store 2 - Beaver [RO#140631]**

Machine Id

**JOHN DEERE 332G 1T0332GMJMF394269**

Component

**Diesel Engine**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 0W40 (3 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: Need this sample Rushed- looking for contamination )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0042563</b>	LEC0037552	LEC0033327
Sample Date		Client Info		<b>03 Jul 2023</b>	24 Jan 2023	05 Jul 2022
Machine Age	hrs	Client Info		<b>2960</b>	2228	1240
Oil Age	hrs	Client Info		<b>1720</b>	988	111
Filter Age	hrs	Client Info		<b>1720</b>	988	111
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>20</b>	32	15
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>5</b>	3	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>31	<b>&lt;1</b>	4	4
Lead	ppm	ASTM D5185m	>26	<b>0</b>	2	<1
Copper	ppm	ASTM D5185m	>26	<b>6</b>	6	6
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

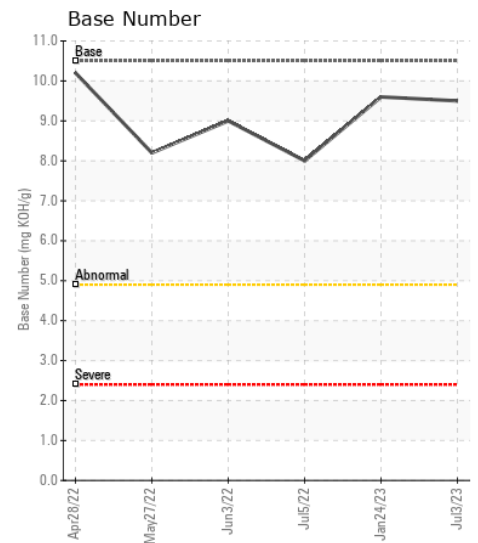
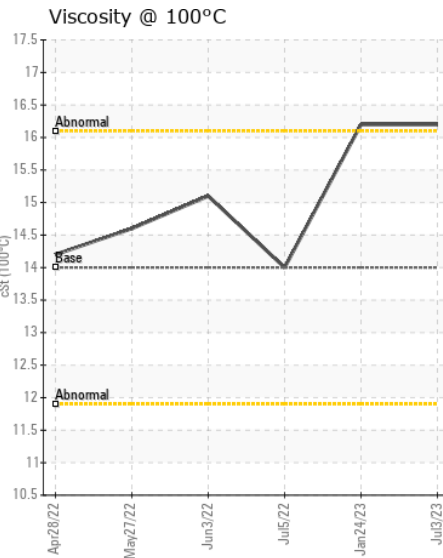
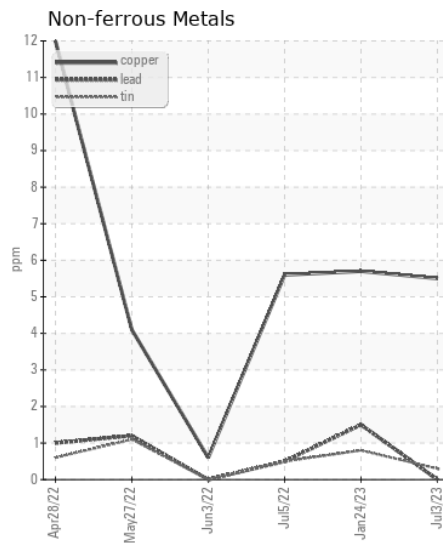
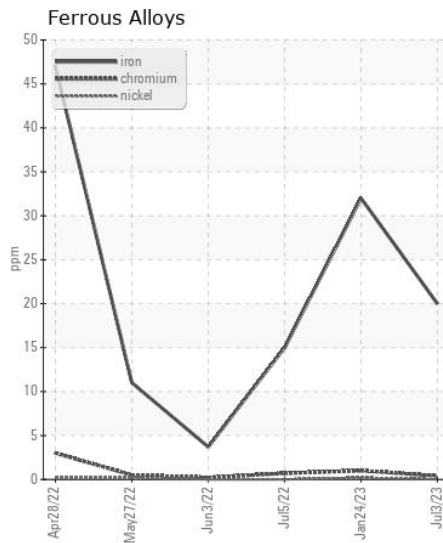
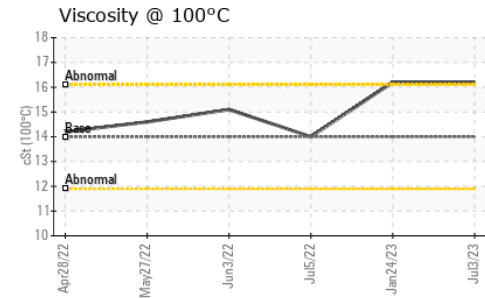
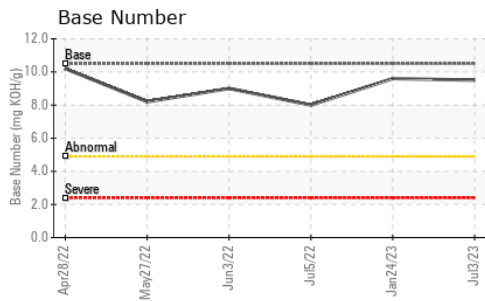
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>10</b>	11	▲ 30
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	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>0.8</b>	1.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.8</b>	14.2	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.4</b>	27.4	27.8
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>	9	4
Boron	ppm	ASTM D5185m		<b>68</b>	54	230
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>52</b>	69	255
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>603</b>	470	754
Calcium	ppm	ASTM D5185m		<b>2231</b>	2387	1674
Phosphorus	ppm	ASTM D5185m		<b>1276</b>	1258	880
Zinc	ppm	ASTM D5185m		<b>1540</b>	1579	1101
Sulfur	ppm	ASTM D5185m		<b>4433</b>	4623	3465
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.8</b>	24.8	26.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.5</b>	9.6	8.0
Visc @ 100°C	cSt	ASTM D445	14	<b>16.2</b>	16.2	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0042563 **Received** : 07 Jul 2023  
**Lab Number** : 05891897 **Tested** : 07 Jul 2023  
**Unique Number** : 10547707 **Diagnosed** : 09 Jul 2023 - Doug Bogart  
**Test Package** : CONST ( Additional Tests: TBN )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
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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)

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