



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

**Store 9 - Marietta [RO#148748]**

Machine Id

**JOHN DEERE 950K 1T0950KPAJF339847**

Component

**Diesel Engine**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0048576</b>	LEC0047515	LEC0046875
Sample Date		Client Info		<b>18 Mar 2024</b>	26 Jan 2024	11 Jan 2024
Machine Age	hrs	Client Info		<b>3285</b>	2730	2555
Oil Age	hrs	Client Info		<b>555</b>	175	521
Filter Age	hrs	Client Info		<b>555</b>	175	521
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	>100	<b>60</b>	44	▲ 175
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	0	1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	6	6
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	1
Copper	ppm	ASTM D5185m	>330	<b>3</b>	4	20
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

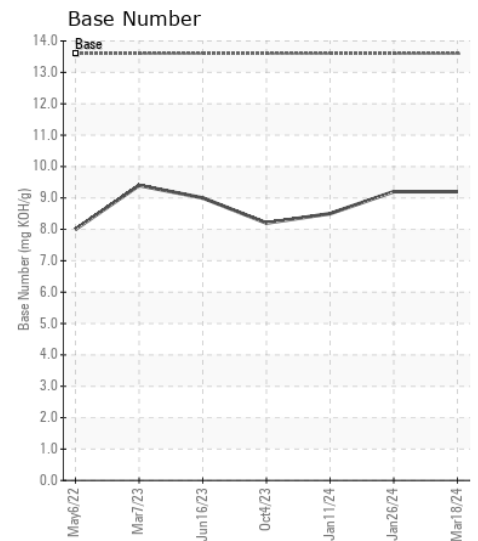
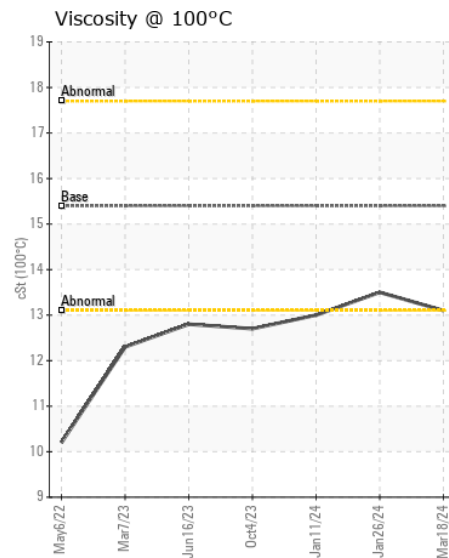
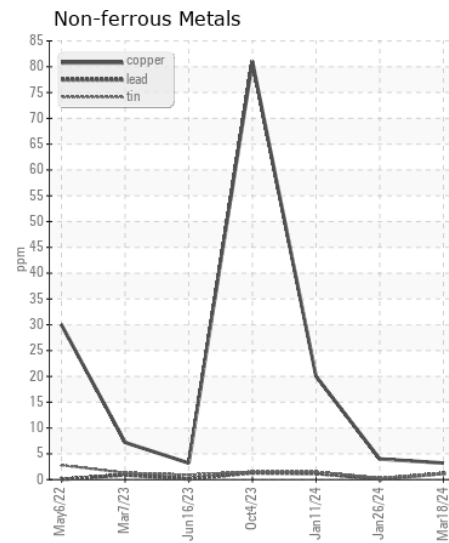
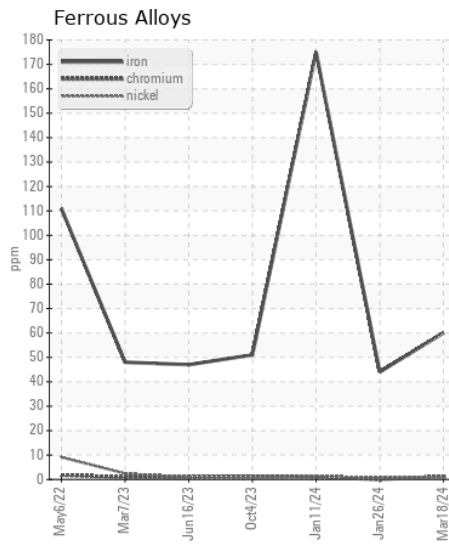
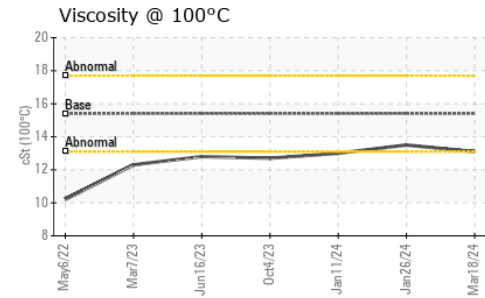
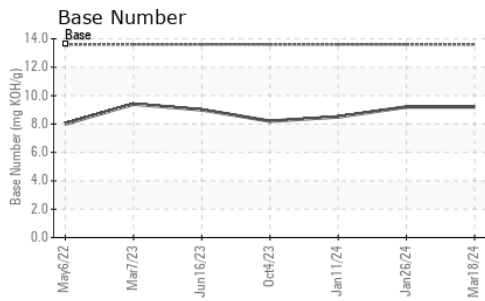
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>13</b>	6	11
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	6.9	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.5</b>	20.4	22.2
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	>0.2	<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		<b>3</b>	2	3
Boron	ppm	ASTM D5185m		<b>269</b>	279	210
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>272</b>	246	268
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>898</b>	803	859
Calcium	ppm	ASTM D5185m		<b>1595</b>	1363	1384
Phosphorus	ppm	ASTM D5185m		<b>1103</b>	897	944
Zinc	ppm	ASTM D5185m		<b>1233</b>	1085	1126
Sulfur	ppm	ASTM D5185m		<b>3629</b>	3003	2882
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.0</b>	14.7	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.2</b>	9.2	8.5
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.1</b>	13.5	13.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0048576 **Received** : 21 Mar 2024  
**Lab Number** : 06125445 **Tested** : 22 Mar 2024  
**Unique Number** : 10939596 **Diagnosed** : 22 Mar 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
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 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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