



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Store 8 - Pikeville**  
 Machine Id  
**John Deere 1T0850KXTJF337146**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0038422</b>	LEC0034853	LEC0032777
Sample Date		Client Info		<b>28 Apr 2023</b>	06 Sep 2022	16 Aug 2022
Machine Age	hrs	Client Info		<b>3100</b>	2693	2673
Oil Age	hrs	Client Info		<b>427</b>	20	472
Filter Age	hrs	Client Info		<b>427</b>	20	472
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

The nickel level has decreased, but is still abnormal.

Iron	ppm	ASTM D5185m	>51	<b>26</b>	8	29
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	2
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>31	<b>1</b>	2	7
Lead	ppm	ASTM D5185m	>26	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>26	<b>2</b>	2	4
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

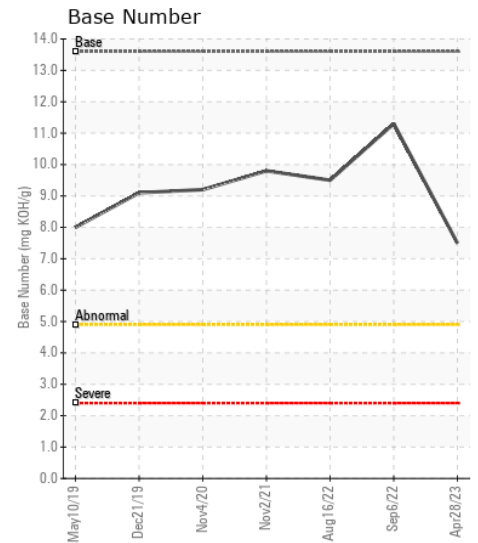
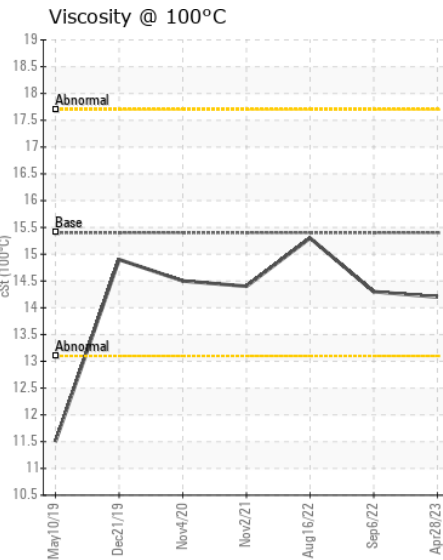
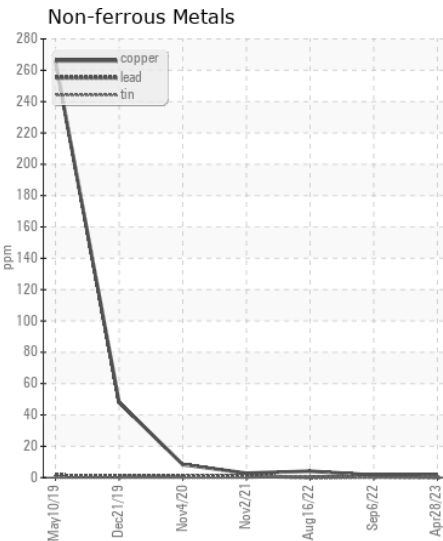
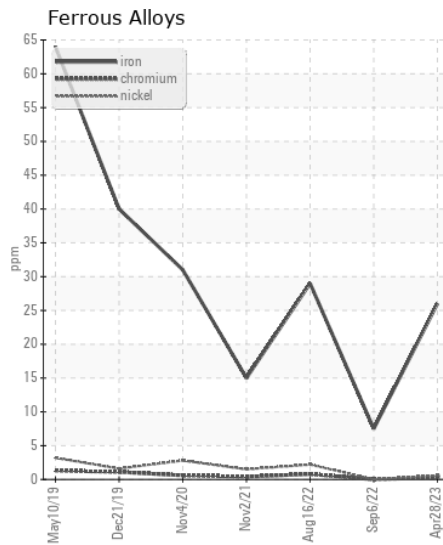
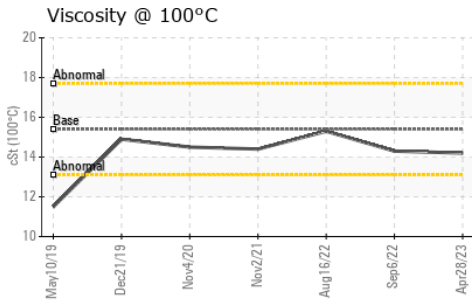
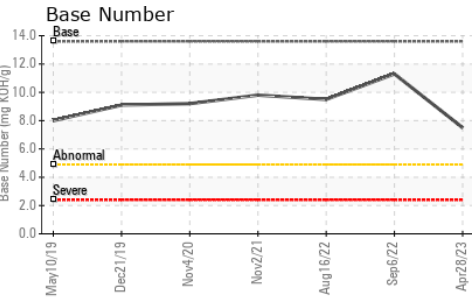
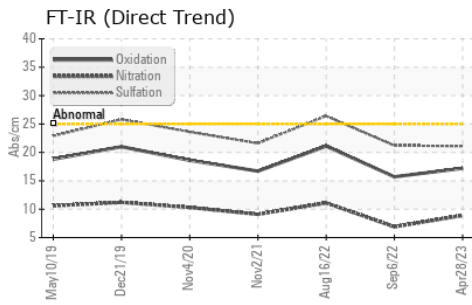
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>7</b>	6	8
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	4
Fuel		WC Method	>5	<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>0.4</b>	0.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	6.9	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.1</b>	21.2	26.4
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>&lt;1</b>	<1	3
Boron	ppm	ASTM D5185m		<b>184</b>	282	108
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>237</b>	226	256
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>765</b>	729	798
Calcium	ppm	ASTM D5185m		<b>1539</b>	1318	1495
Phosphorus	ppm	ASTM D5185m		<b>884</b>	794	891
Zinc	ppm	ASTM D5185m		<b>1118</b>	975	1130
Sulfur	ppm	ASTM D5185m		<b>2808</b>	2672	3088
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.2</b>	15.7	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.5</b>	11.3	9.5
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	14.3	15.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0038422 **Received** : 02 May 2023  
**Lab Number** : 05834958 **Tested** : 03 May 2023  
**Unique Number** : 10453761 **Diagnosed** : 03 May 2023 - Angela Borella  
**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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