



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Store 8 - Pikeville**  
 Machine Id  
**JOHN DEERE 850L 1T0850LXAKF363304**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0041372</b>	LEC0038302	LEC0017468
Sample Date		Client Info		<b>22 May 2023</b>	29 Dec 2022	04 Nov 2020
Machine Age	hrs	Client Info		<b>1720</b>	1415	493
Oil Age	hrs	Client Info		<b>305</b>	415	493
Filter Age	hrs	Client Info		<b>305</b>	415	493
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	MARGINAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>24</b>	41	55
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>5	<b>3</b>	▲ 10	▲ 22
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>2</b>	4	6
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	6
Copper	ppm	ASTM D5185m	>26	<b>2</b>	3	25
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

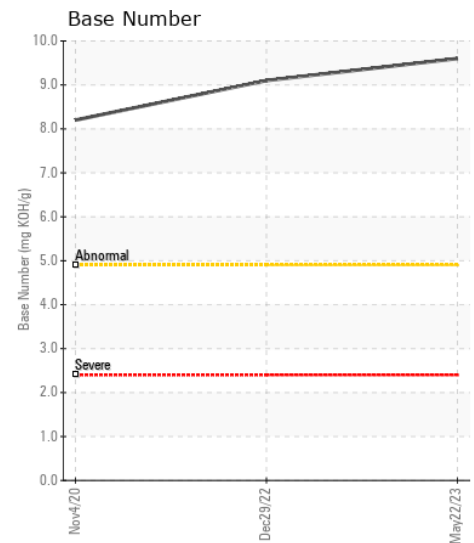
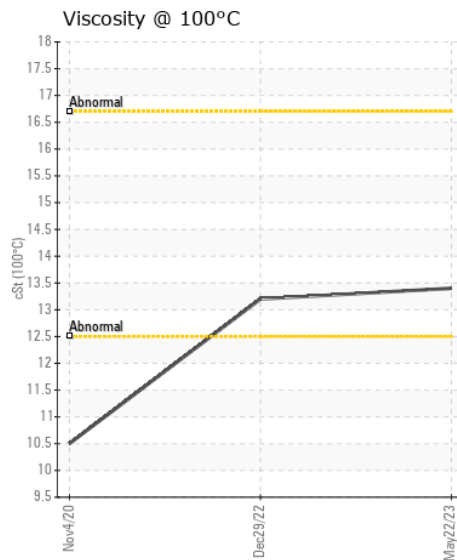
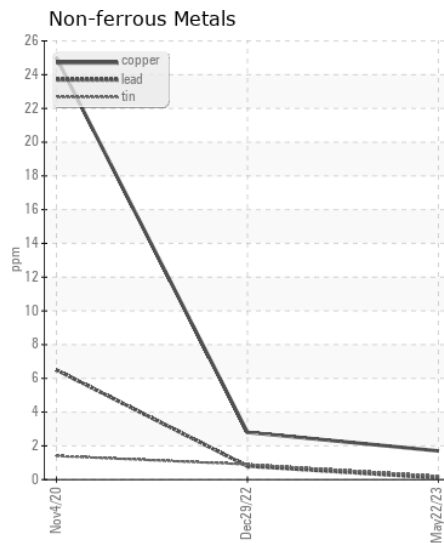
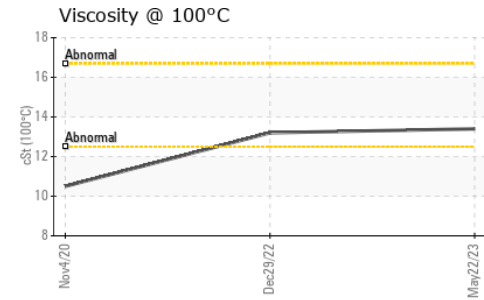
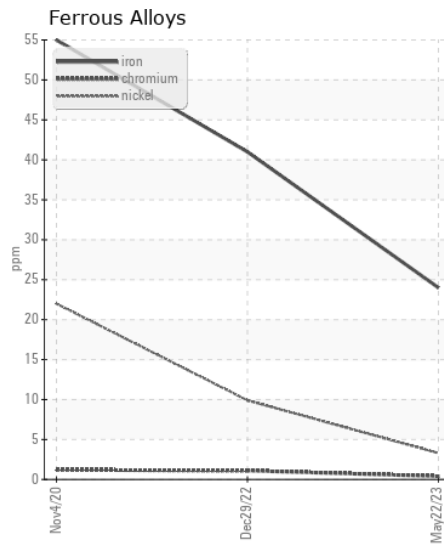
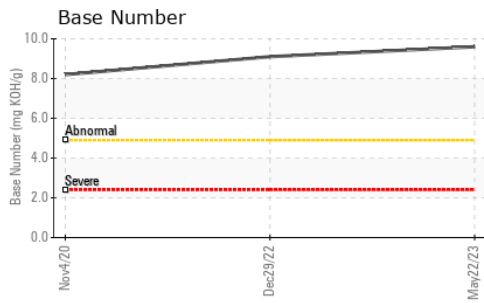
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>5</b>	6	10
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	16
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.0
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	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.4</b>	8.9	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.8</b>	21.3	22.5
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>	3	10
Boron	ppm	ASTM D5185m		<b>267</b>	259	183
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>256</b>	245	225
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	3
Magnesium	ppm	ASTM D5185m		<b>760</b>	812	757
Calcium	ppm	ASTM D5185m		<b>1521</b>	1523	1641
Phosphorus	ppm	ASTM D5185m		<b>932</b>	897	884
Zinc	ppm	ASTM D5185m		<b>1109</b>	1122	1114
Sulfur	ppm	ASTM D5185m		<b>3474</b>	3422	2575
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	16.0	17.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.6</b>	9.1	8.2
Visc @ 100°C	cSt	ASTM D445		<b>13.4</b>	13.2	10.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0041372 **Received** : 30 May 2023  
**Lab Number** : 05859038 **Tested** : 31 May 2023  
**Unique Number** : 10493503 **Diagnosed** : 31 May 2023 - Angela Borella  
**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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