



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Store 4 - Fairmont**  
 Machine Id  
**PETERBILT 367 1XPTD40X6LD685994**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (48 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0044500</b>	LEC0041418	LEC0038581
Sample Date		Client Info		<b>31 Oct 2023</b>	02 Jun 2023	14 Mar 2023
Machine Age	hrs	Client Info		<b>294064</b>	261969	245017
Oil Age	hrs	Client Info		<b>15947</b>	16952	15497
Filter Age	hrs	Client Info		<b>15947</b>	16952	15947
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	>110	<b>23</b>	6	15
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>9</b>	2	5
Lead	ppm	ASTM D5185m	>45	<b>4</b>	0	<1
Copper	ppm	ASTM D5185m	>85	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

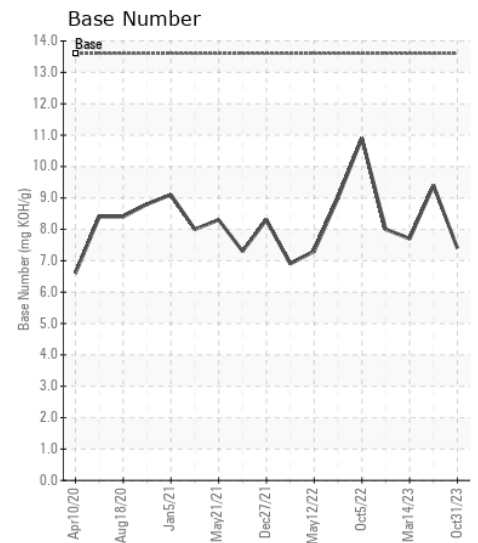
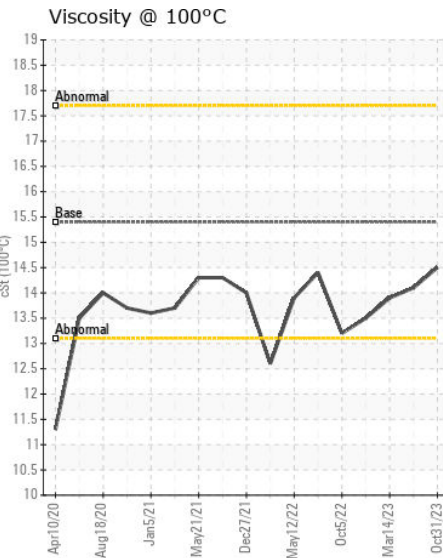
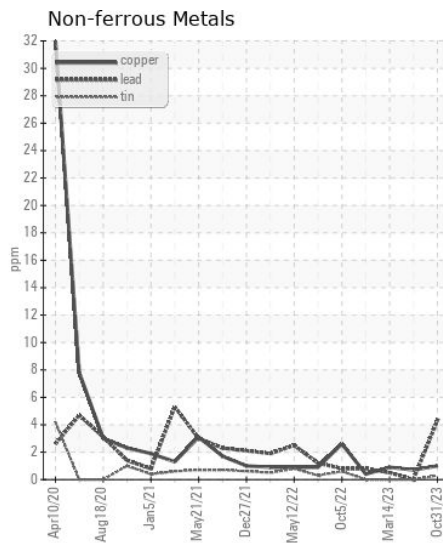
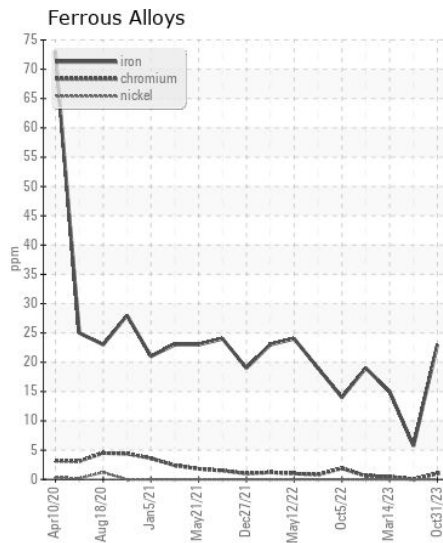
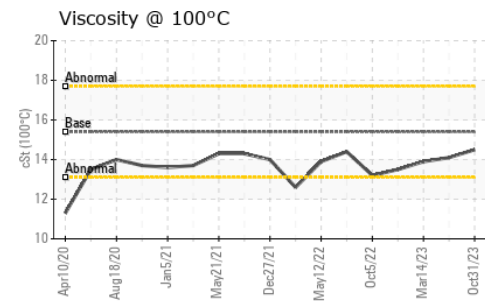
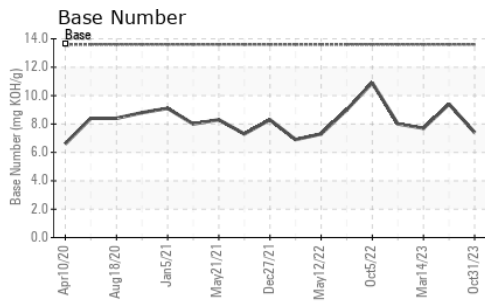
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>10</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	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>1</b>	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.9</b>	8.0	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>28.3</b>	20.6	25.1
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>4</b>	2	4
Boron	ppm	ASTM D5185m		<b>93</b>	259	146
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>252</b>	230	232
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>780</b>	774	713
Calcium	ppm	ASTM D5185m		<b>1461</b>	1458	1456
Phosphorus	ppm	ASTM D5185m		<b>797</b>	863	832
Zinc	ppm	ASTM D5185m		<b>1031</b>	1072	982
Sulfur	ppm	ASTM D5185m		<b>2632</b>	3663	3254
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.0</b>	15.2	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.4</b>	9.4	7.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.5</b>	14.1	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0044500 **Received** : 03 Nov 2023  
**Lab Number** : 05997813 **Tested** : 06 Nov 2023  
**Unique Number** : 10726173 **Diagnosed** : 06 Nov 2023 - Don Baldrige  
**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)

T: F: (740)373-5570