



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Store 5 - Cross Lanes**  
 Machine Id  
**PETERBILT 567 1XPCP4EX0PD810462**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (12 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0041951</b>	LEC0035750	LEC0036334
Sample Date		Client Info		<b>10 Jul 2023</b>	19 May 2023	28 Nov 2022
Machine Age	mls	Client Info		<b>81535</b>	67297	43754
Oil Age	mls	Client Info		<b>14238</b>	23543	15645
Filter Age	mls	Client Info		<b>14238</b>	23453	15645
Oil Changed		Client Info		<b>Diff Oil</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>21</b>	37	42
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	3
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>9</b>	25	45
Lead	ppm	ASTM D5185m	>45	<b>2</b>	2	2
Copper	ppm	ASTM D5185m	>85	<b>1</b>	3	7
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	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**

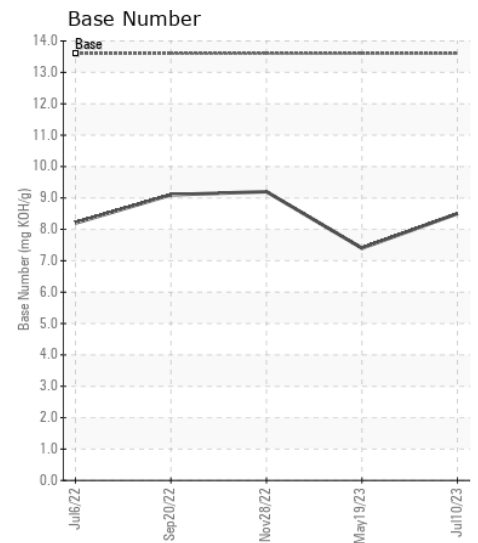
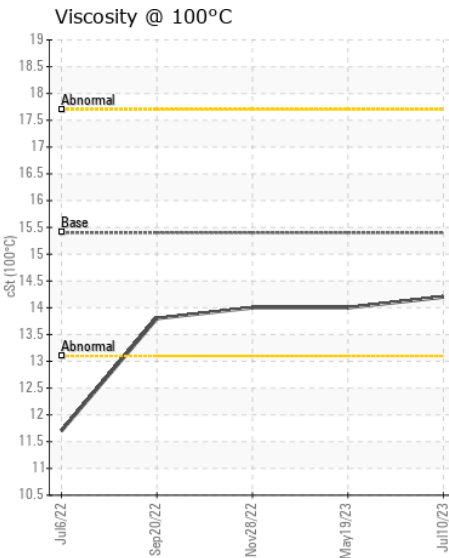
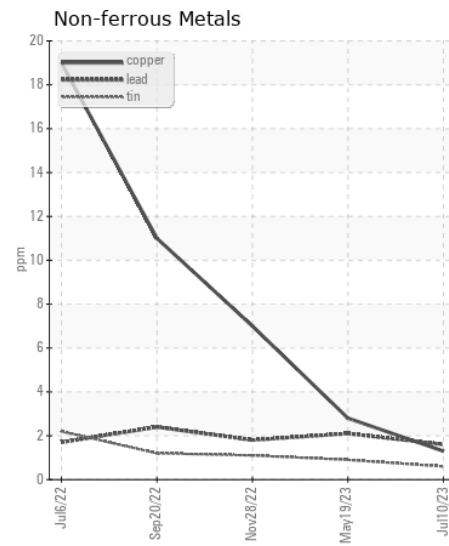
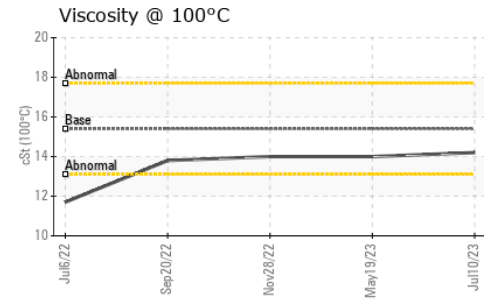
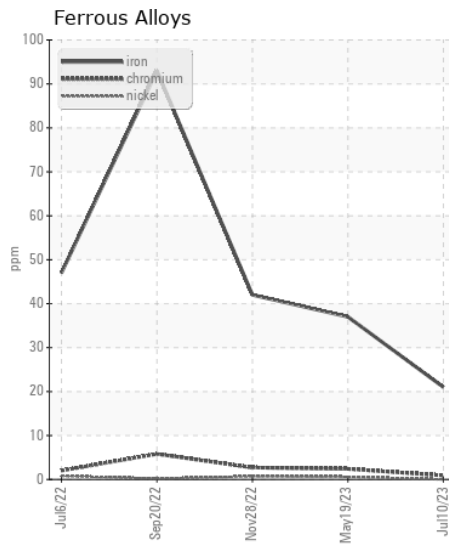
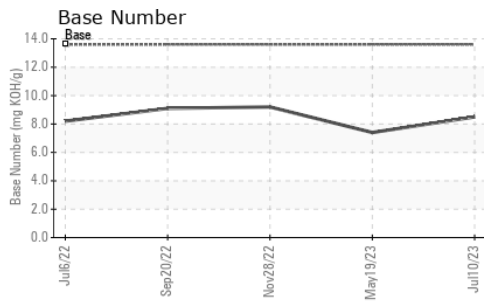
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>8</b>	14	11
Potassium	ppm	ASTM D5185m	>20	<b>16</b>	47	88
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>0.5</b>	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	10.4	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.6</b>	26.6	25.5
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	>0.2	<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>1</b>	3	3
Boron	ppm	ASTM D5185m		<b>163</b>	100	160
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>257</b>	251	241
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>866</b>	846	812
Calcium	ppm	ASTM D5185m		<b>1525</b>	1646	1544
Phosphorus	ppm	ASTM D5185m		<b>902</b>	886	857
Zinc	ppm	ASTM D5185m		<b>1114</b>	1166	1093
Sulfur	ppm	ASTM D5185m		<b>3542</b>	3281	3321
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.2</b>	21.7	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.5</b>	7.4	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	14.0	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0041951 **Received** : 12 Jul 2023  
**Lab Number** : 05895918 **Tested** : 12 Jul 2023  
**Unique Number** : 10551728 **Diagnosed** : 13 Jul 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: (740)373-5570