



OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**Store 9 - Marietta**

Machine Id

**PETERBILT 567 1XPCP4EX9PD810461**

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>LEC0047249</b>	LEC0044900	LEC0044388
Sample Date		Client Info		<b>04 Jan 2024</b>	08 Nov 2023	11 Sep 2023
Machine Age	mls	Client Info		<b>114921</b>	99350	82906
Oil Age	mls	Client Info		<b>15571</b>	16444	16304
Filter Age	mls	Client Info		<b>15571</b>	16444	16304
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>21</b>	18	26
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>6</b>	8	11
Lead	ppm	ASTM D5185m	>45	<b>1</b>	1	1
Copper	ppm	ASTM D5185m	>85	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

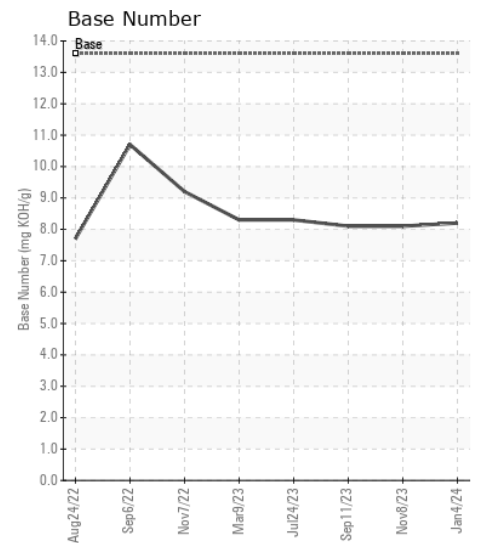
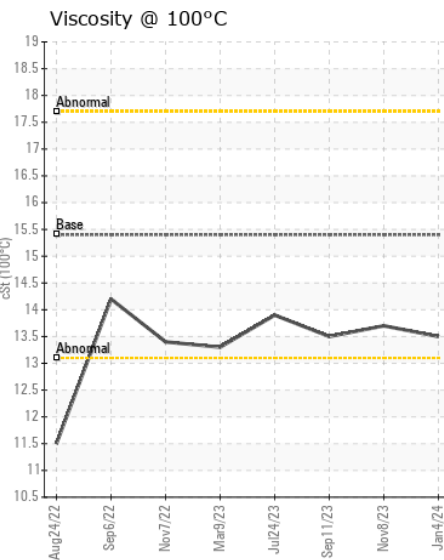
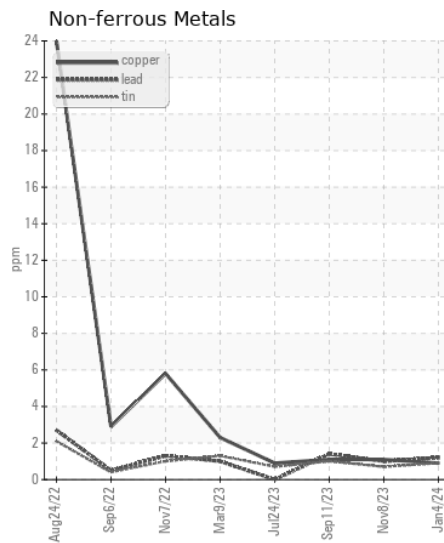
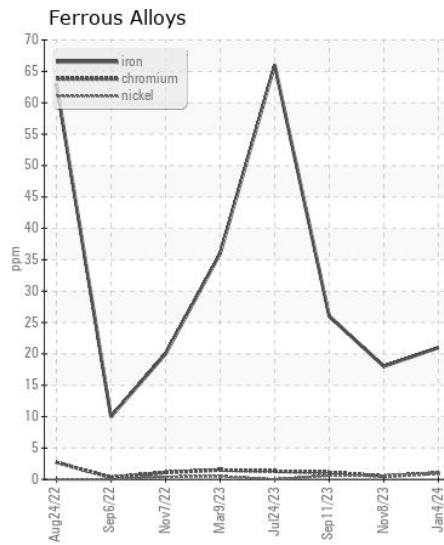
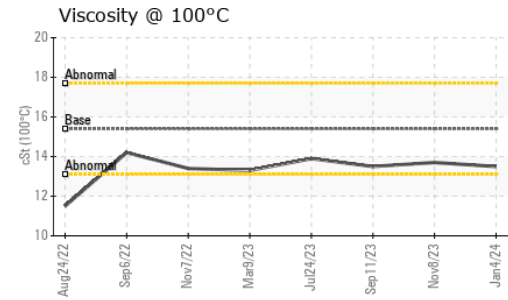
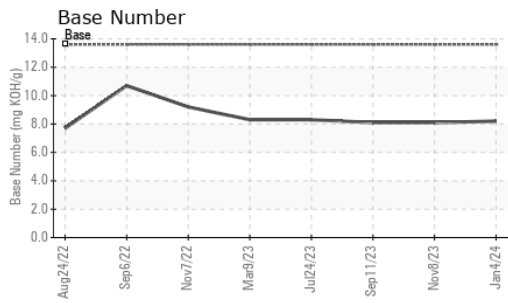
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>9</b>	9	10
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	13	27
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>	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.7</b>	9.0	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.3</b>	22.7	22.3
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>0</b>	0	2
Boron	ppm	ASTM D5185m		<b>220</b>	215	174
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>235</b>	270	251
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>771</b>	804	828
Calcium	ppm	ASTM D5185m		<b>1445</b>	1529	1564
Phosphorus	ppm	ASTM D5185m		<b>814</b>	892	935
Zinc	ppm	ASTM D5185m		<b>1078</b>	1123	1130
Sulfur	ppm	ASTM D5185m		<b>3434</b>	3058	3697
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.3</b>	16.7	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.2</b>	8.1	8.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.5</b>	13.7	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047249 **Received** : 09 Jan 2024  
**Lab Number** : 06055249 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821198 **Diagnostician** : Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**LESLIE EQUIPMENT COMPANY**  
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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)