



# OIL ANALYSIS REPORT

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

Area  
**Store 9 - Marietta [RO#141307]**  
 Machine Id  
**PETERBILT 367 667 (S/N 1XPTD40X4LD685993)**  
 Component  
**Front Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (5 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: UNIT 667 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0042480</b>	LEC0029972	---
Sample Date		Client Info		<b>24 Jul 2023</b>	22 Apr 2022	---
Machine Age	mls	Client Info		<b>245725</b>	124585	---
Oil Age	mls	Client Info		<b>121140</b>	124585	---
Filter Age	mls	Client Info		<b>121140</b>	124585	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>20</b>	39	---
Iron	ppm	ASTM D5185m	>500	<b>84</b>	197	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>100	<b>13</b>	▲ 119	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	HEAVY	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

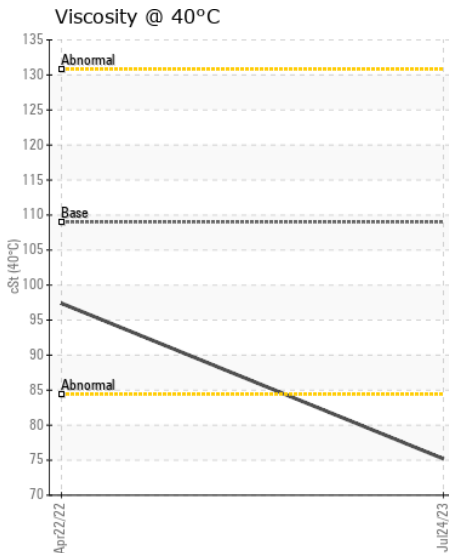
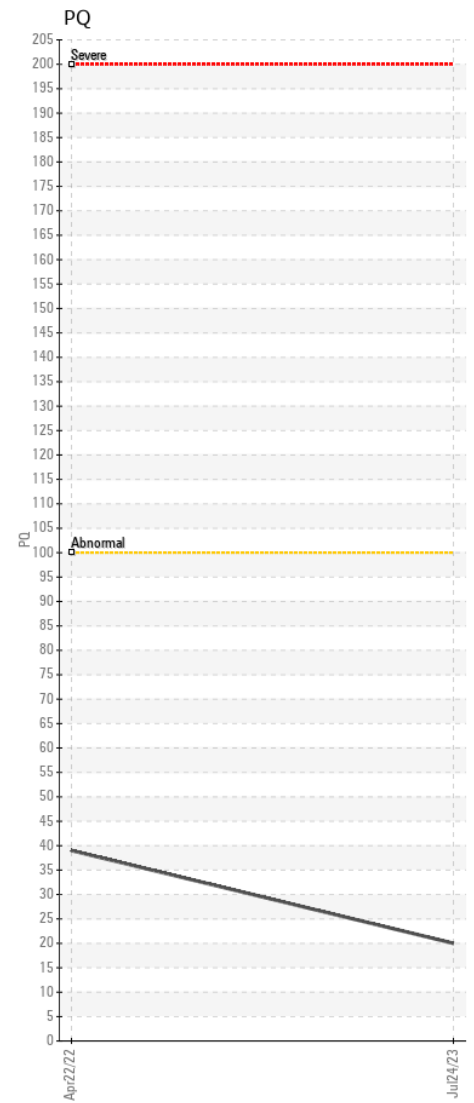
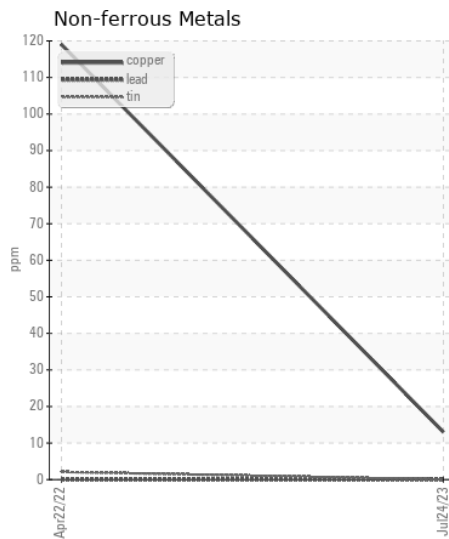
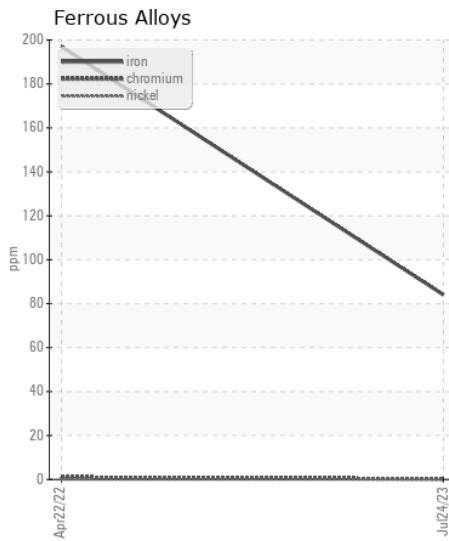
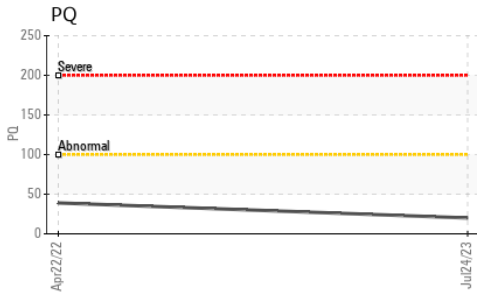
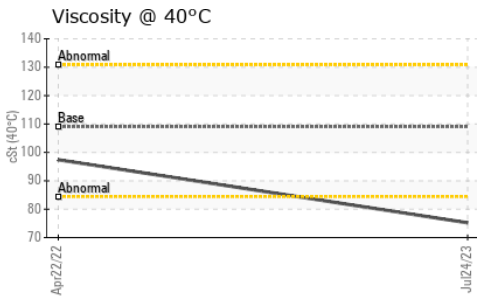
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>24</b>	▲ 94	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	13	---
Boron	ppm	ASTM D5185m	400	<b>36</b>	218	---
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	12	<b>3</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>7</b>	19	---
Magnesium	ppm	ASTM D5185m	12	<b>7</b>	0	---
Calcium	ppm	ASTM D5185m	150	<b>85</b>	21	---
Phosphorus	ppm	ASTM D5185m	1650	<b>489</b>	1446	---
Zinc	ppm	ASTM D5185m	125	<b>45</b>	15	---
Sulfur	ppm	ASTM D5185m	22500	<b>22268</b>	19677	---
Visc @ 40°C	cSt	ASTM D445	109	<b>75.2</b>	97.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0042480 **Received** : 27 Jul 2023  
**Lab Number** : 05909145 **Tested** : 30 Jul 2023  
**Unique Number** : 10575797 **Diagnosed** : 30 Jul 2023 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**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)