



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
PETERBILT 567 1XPCP4EX9PD810461
Component
Front Differential
Fluid
GEAR OIL SAE 75W90 (5 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0039459	LEC0033728	---
Sample Date		Client Info		09 Mar 2023	24 Aug 2022	---
Machine Age	mls	Client Info		48674	15181	---
Oil Age	mls	Client Info		48674	15181	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	None	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level is abnormal. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184		15	22	---
Iron	ppm	ASTM D5185m	>500	110	210	---
Chromium	ppm	ASTM D5185m	>10	<1	2	---
Nickel	ppm	ASTM D5185m	>10	<1	1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>25	2	11	---
Lead	ppm	ASTM D5185m	>25	0	<1	---
Copper	ppm	ASTM D5185m	>100	▲ 442	▲ 125	---
Tin	ppm	ASTM D5185m	>10	8	3	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

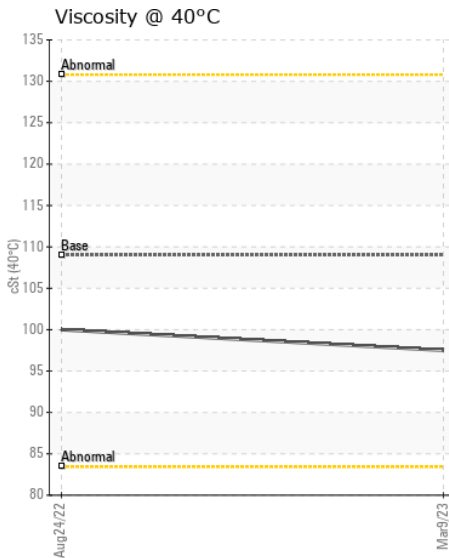
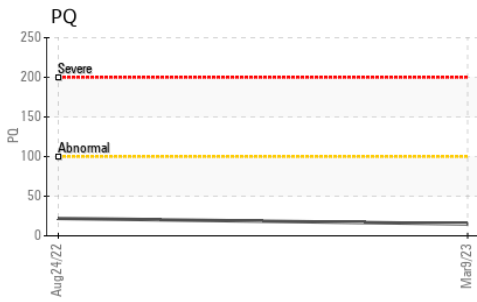
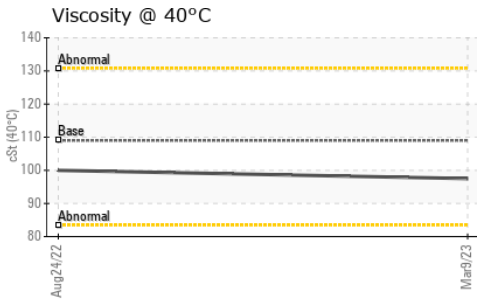
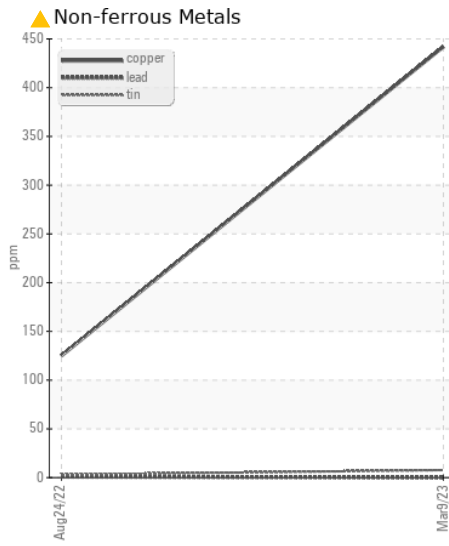
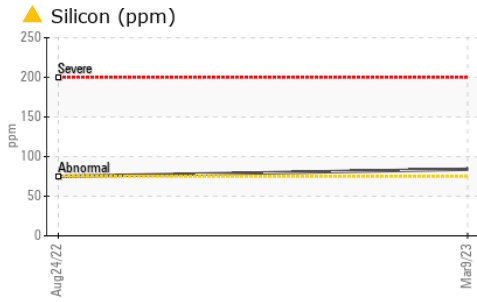
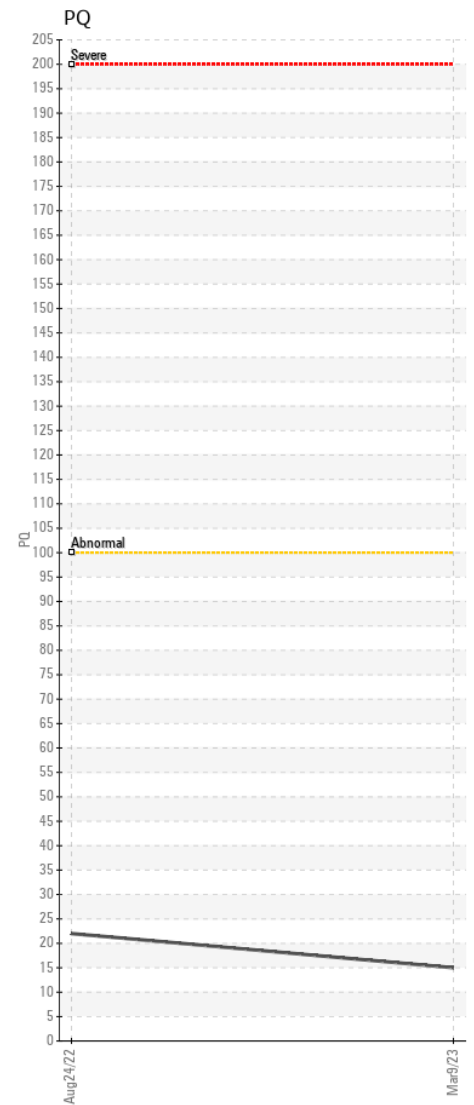
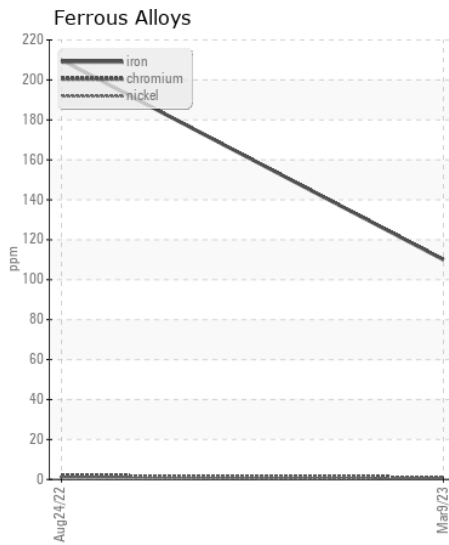
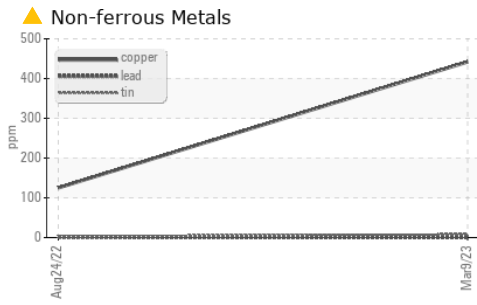
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>75	▲ 84	▲ 75	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	4	---
Boron	ppm	ASTM D5185m	400	210	259	---
Barium	ppm	ASTM D5185m	200	3	2	---
Molybdenum	ppm	ASTM D5185m	12	<1	<1	---
Manganese	ppm	ASTM D5185m		14	14	---
Magnesium	ppm	ASTM D5185m	12	1	3	---
Calcium	ppm	ASTM D5185m	150	10	19	---
Phosphorus	ppm	ASTM D5185m	1650	1380	1285	---
Zinc	ppm	ASTM D5185m	125	15	11	---
Sulfur	ppm	ASTM D5185m	22500	28080	23651	---
Visc @ 40°C	cSt	ASTM D445	109	97.5	100	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0039459 **Received** : 13 Mar 2023
Lab Number : 05790085 **Tested** : 14 Mar 2023
Unique Number : 10374756 **Diagnosed** : 15 Mar 2023 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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