



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 827604**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0009859</b>	RPL0003365	---
Sample Date		Client Info		<b>31 Aug 2023</b>	04 Oct 2022	---
Machine Age	mls	Client Info		<b>293517</b>	293517	---
Oil Age	mls	Client Info		<b>293517</b>	0	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>11</b>	22	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	6	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

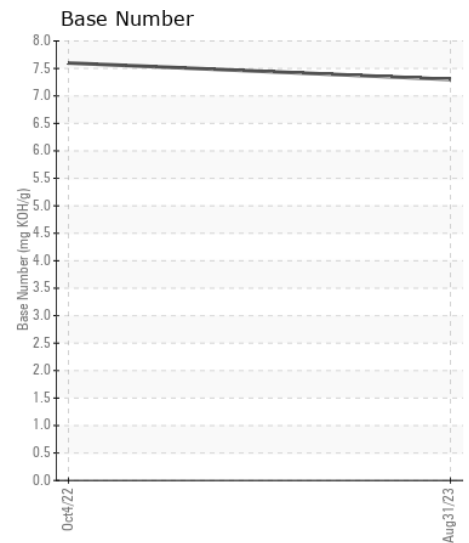
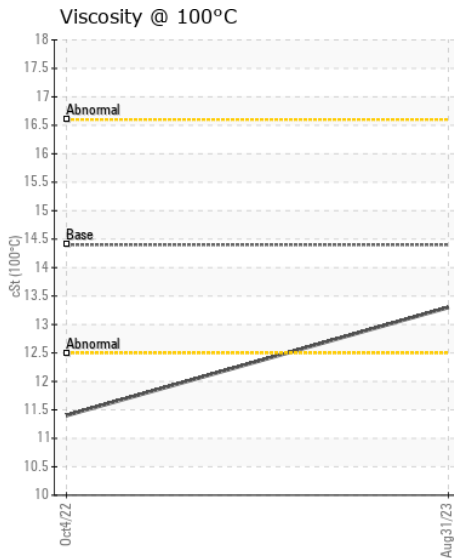
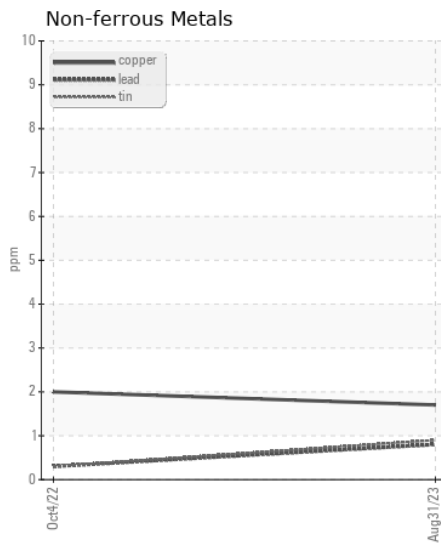
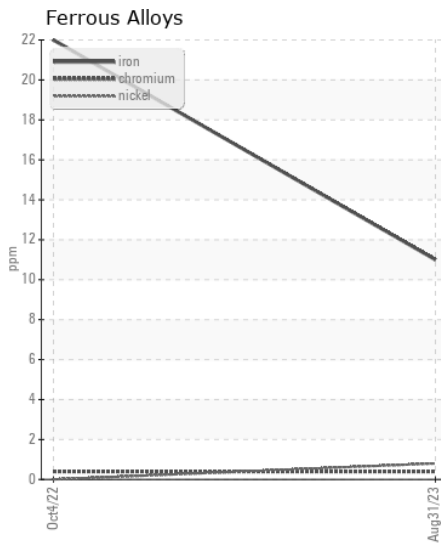
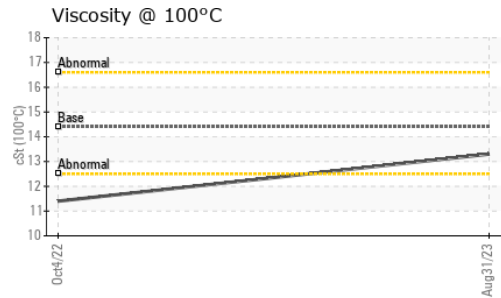
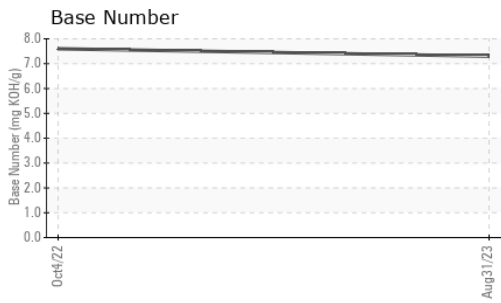
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	7	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	0.4	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.0</b>	8.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.6</b>	22.5	---
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	>0.2	<b>NEG</b>	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	>50	<b>0</b>	<1	---
Boron	ppm	ASTM D5185m		<b>332</b>	192	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>81</b>	69	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>378</b>	286	---
Calcium	ppm	ASTM D5185m		<b>1366</b>	1670	---
Phosphorus	ppm	ASTM D5185m		<b>935</b>	997	---
Zinc	ppm	ASTM D5185m		<b>1215</b>	1127	---
Sulfur	ppm	ASTM D5185m		<b>3667</b>	3839	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.0</b>	15.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.3</b>	7.6	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.3</b>	▲ 11.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0009859 **Received** : 09 Jan 2024  
**Lab Number** : 06055230 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821179 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**RTL PACLEASE - 7019 - Birmingham**  
 601 Republic Circle  
 Birmingham, AL  
 US 35214  
 Contact: Johnathan King  
 KingJ1@RushEnterprises.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)

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F: