



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 117364
Component
Diesel Engine
Fluid
CHEVRON 15W40 (--- GAL)

RECOMMENDATION

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0009851	RPL0003432	---
Sample Date		Client Info		14 Jul 2023	10 Oct 2022	---
Machine Age	mls	Client Info		364868	364868	---
Oil Age	mls	Client Info		364868	40168	---
Filter Age	mls	Client Info		0	40168	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	57	21	---
Chromium	ppm	ASTM D5185m	>4	<1	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>25	4	4	---
Lead	ppm	ASTM D5185m	>45	2	2	---
Copper	ppm	ASTM D5185m	>85	5	3	---
Tin	ppm	ASTM D5185m	>4	1	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

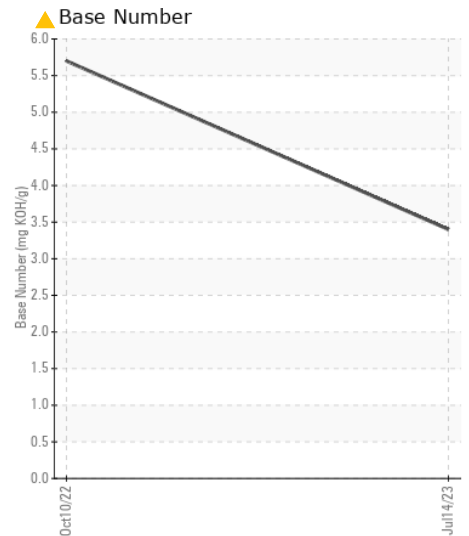
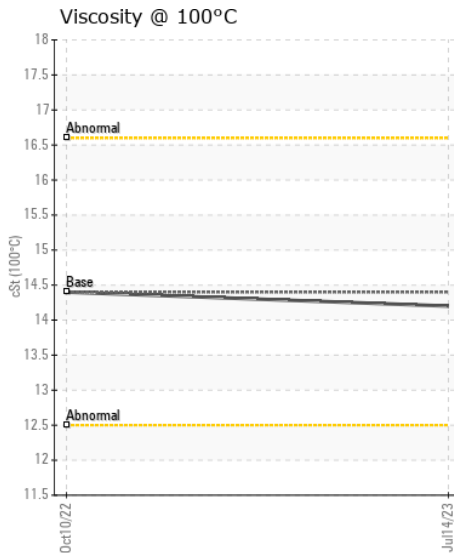
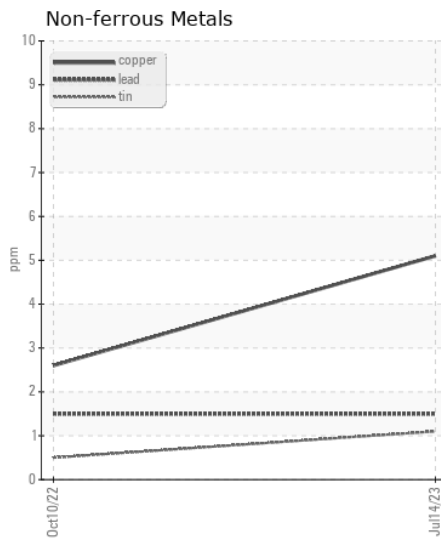
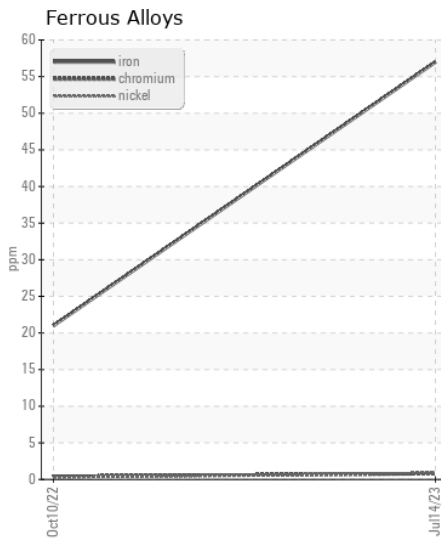
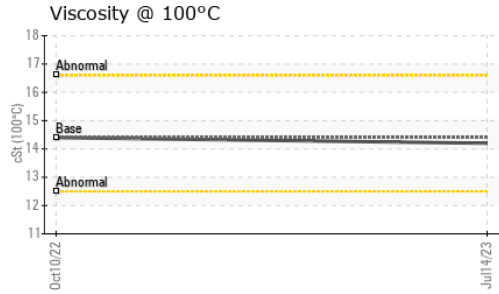
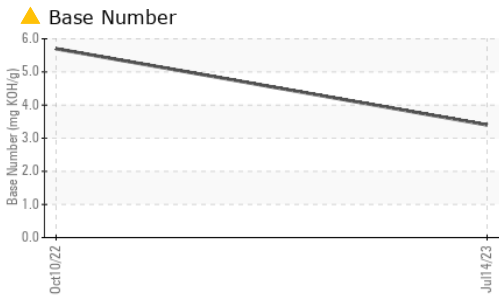
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	12	11	---
Potassium	ppm	ASTM D5185m	>20	6	4	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	1.2	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	13.0	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.6	29.3	---
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	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>50	0	2	---
Boron	ppm	ASTM D5185m		20	34	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		86	85	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m		395	394	---
Calcium	ppm	ASTM D5185m		1551	1430	---
Phosphorus	ppm	ASTM D5185m		919	972	---
Zinc	ppm	ASTM D5185m		1318	1291	---
Sulfur	ppm	ASTM D5185m		2931	2893	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.0	21.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 3.4	5.7	---
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	14.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0009851 **Received** : 09 Jan 2024
Lab Number : 06055208 **Diagnosed** : 10 Jan 2024
Unique Number : 10821157 **Diagnostician** : Don Baldrige
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: