



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id  
**PETERBILT 827998**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 SAE 10W30 (45 QTS)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0004759</b>	RPL0004709	---
Sample Date		Client Info		<b>25 Jun 2024</b>	01 Mar 2024	---
Machine Age	mls	Client Info		<b>215836</b>	167475	---
Oil Age	mls	Client Info		<b>48361</b>	44644	---
Filter Age	mls	Client Info		<b>48361</b>	44644	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>100</b>	85	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>29</b>	29	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>6</b>	4	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

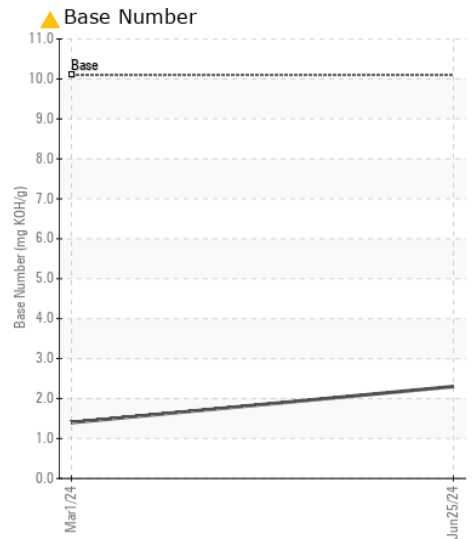
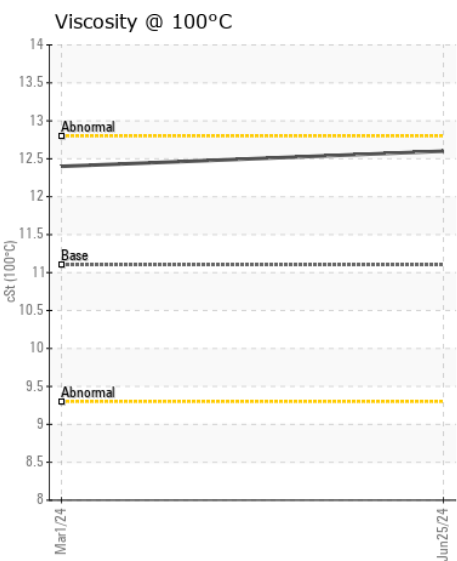
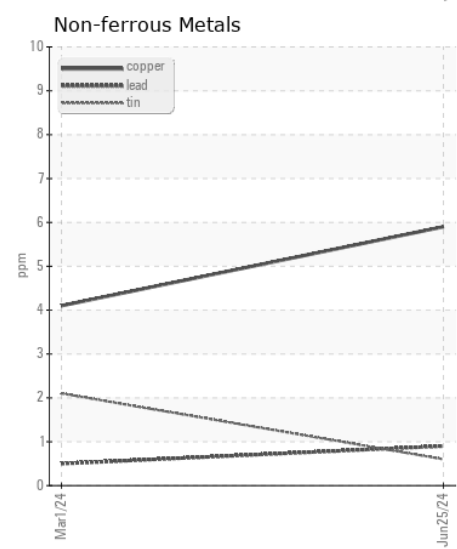
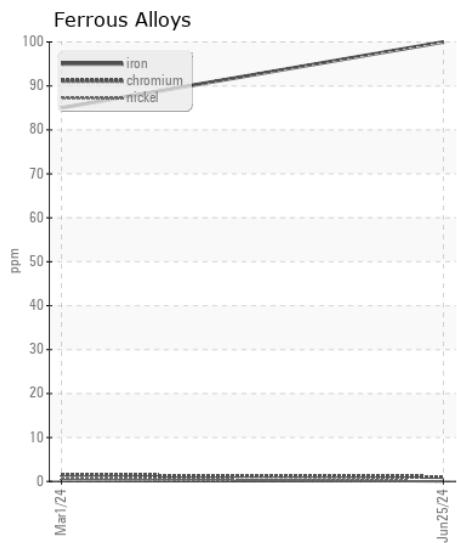
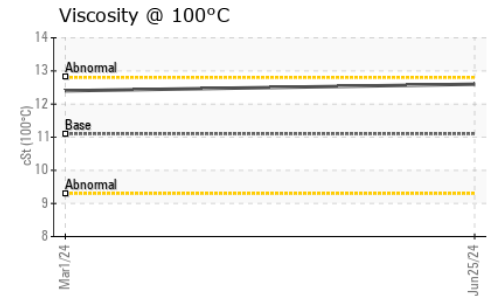
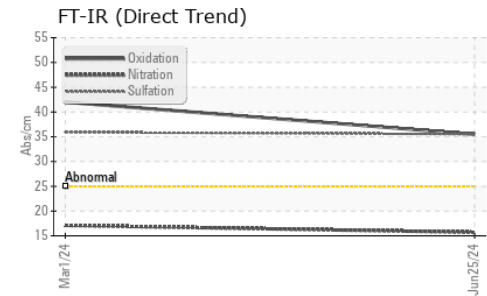
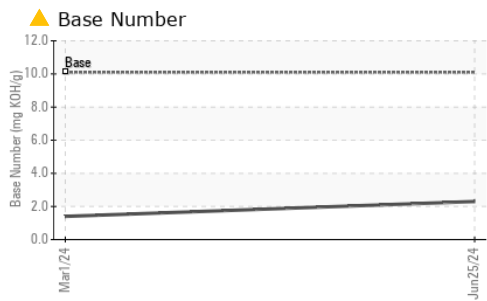
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>10</b>	11	---
Potassium	ppm	ASTM D5185m	>20	<b>61</b>	55	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>15.7</b>	17.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>35.5</b>	35.9	---
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 level is low. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	6	---
Boron	ppm	ASTM D5185m		<b>20</b>	58	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>38</b>	83	---
Manganese	ppm	ASTM D5185m		<b>2</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>175</b>	405	---
Calcium	ppm	ASTM D5185m		<b>2338</b>	1614	---
Phosphorus	ppm	ASTM D5185m	1260	<b>1085</b>	937	---
Zinc	ppm	ASTM D5185m	1400	<b>1311</b>	1287	---
Sulfur	ppm	ASTM D5185m		<b>3866</b>	2895	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>35.5</b>	42.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>2.3</b>	1.4	---
Visc @ 100°C	cSt	ASTM D445	11.1	<b>12.6</b>	12.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0004759  
**Lab Number** : 06231240  
**Unique Number** : 11114733  
**Test Package** : FLEET  
**Received** : 09 Jul 2024  
**Tested** : 10 Jul 2024  
**Diagnosed** : 10 Jul 2024 - Don Baldrige

**RTL PACLEASE - 7009 - Nashville**  
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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)