



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 827735**

Component  
**Diesel Engine**

Fluid  
**CHEVRON DELO 400 SAE 10W30 (24 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0004767</b>	RPL0004627	---
Sample Date		Client Info		<b>11 Jun 2024</b>	29 Jun 2022	---
Machine Age	mls	Client Info		<b>52705</b>	38833	---
Oil Age	mls	Client Info		<b>8286</b>	1464	---
Filter Age	mls	Client Info		<b>8286</b>	1464	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>28</b>	9	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	4	---
Lead	ppm	ASTM D5185m	>40	<b>3</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>5</b>	26	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</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.

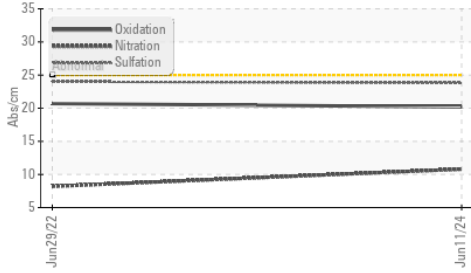
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>15</b>	7	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.8</b>	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.8</b>	24.0	---
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

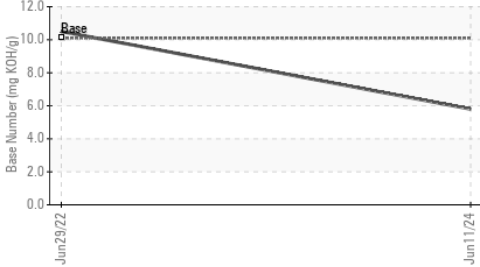
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	0	---
Boron	ppm	ASTM D5185m		<b>94</b>	49	---
Barium	ppm	ASTM D5185m		<b>1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>46</b>	35	---
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>496</b>	450	---
Calcium	ppm	ASTM D5185m		<b>1284</b>	1698	---
Phosphorus	ppm	ASTM D5185m	1260	<b>835</b>	769	---
Zinc	ppm	ASTM D5185m	1400	<b>1006</b>	951	---
Sulfur	ppm	ASTM D5185m		<b>3095</b>	3170	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.2</b>	20.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>5.8</b>	10.5	---
Visc @ 100°C	cSt	ASTM D445	11.1	<b>9.9</b>	12.4	---

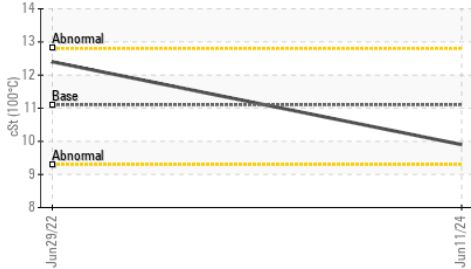
**FT-IR (Direct Trend)**



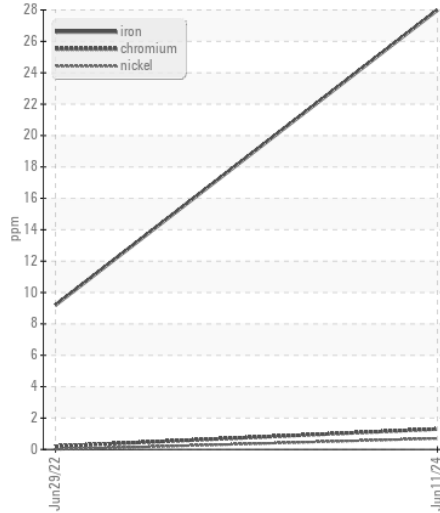
**Base Number**



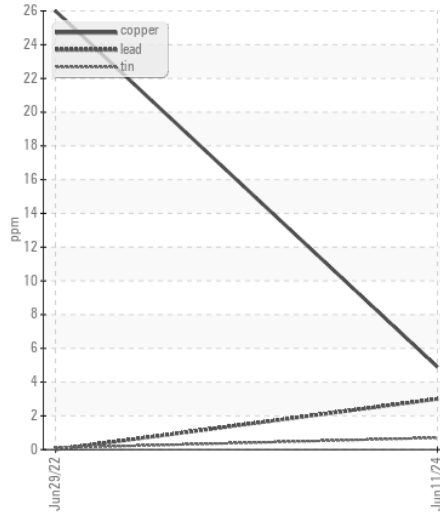
**Viscosity @ 100°C**



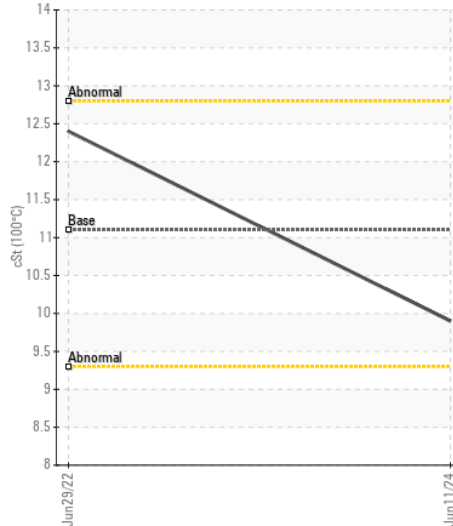
**Ferrous Alloys**



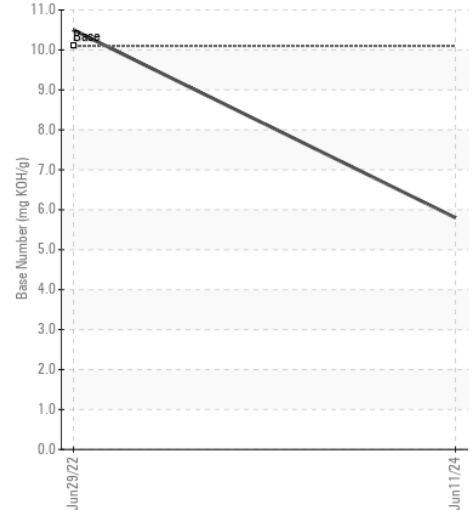
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : RPL0004767

**Lab Number** : 06223164

**Unique Number** : 11101361

**Test Package** : FLEET

**Received** : 28 Jun 2024

**Tested** : 28 Jun 2024

**Diagnosed** : 30 Jun 2024 - Don Baldrige

**RTL PACLEASE - 7009 - Nashville**

900 Expo Dr.

Smyrna, TN

US 37167

Contact: TECHNICIAN ACCOUNT

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T:

F:

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)