



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 827978
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SAE 10W30 (44 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0004726	RPL0004715	---
Sample Date		Client Info		02 Jul 2024	28 Jun 2023	---
Machine Age	mls	Client Info		258860	159047	---
Oil Age	mls	Client Info		50979	79605	---
Filter Age	mls	Client Info		50979	79605	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	55	143	---
Chromium	ppm	ASTM D5185m	>5	2	5	---
Nickel	ppm	ASTM D5185m	>4	<1	2	---
Titanium	ppm	ASTM D5185m	>2	<1	<1	---
Silver	ppm	ASTM D5185m	>2	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	14	19	---
Lead	ppm	ASTM D5185m	>150	7	10	---
Copper	ppm	ASTM D5185m	>90	3	5	---
Tin	ppm	ASTM D5185m	>5	1	4	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

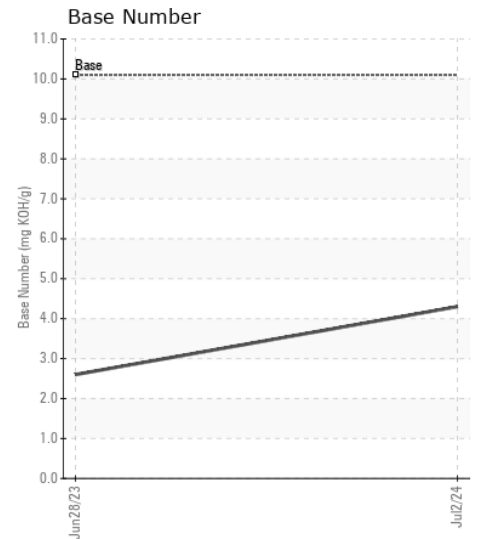
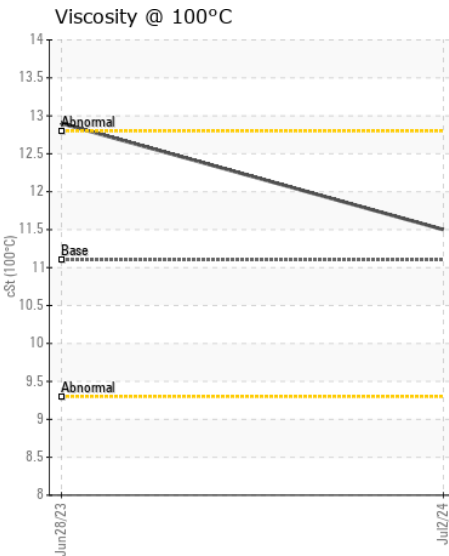
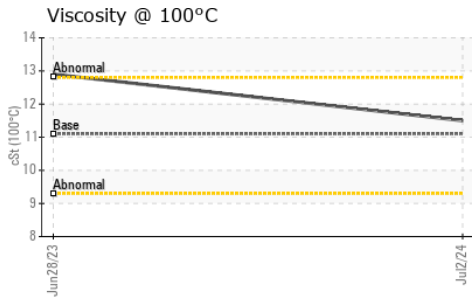
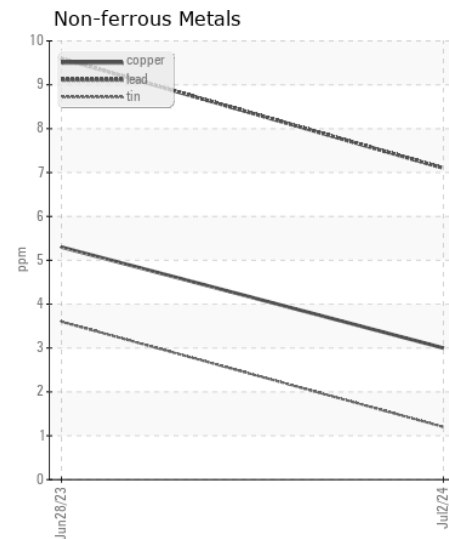
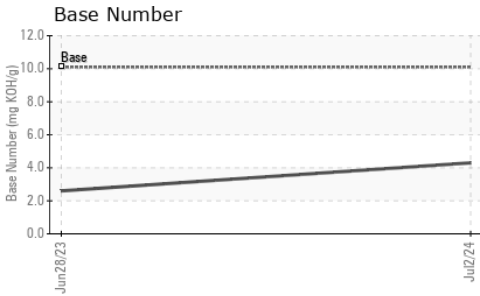
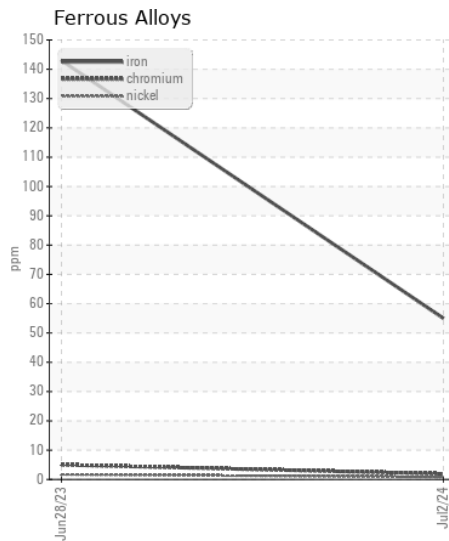
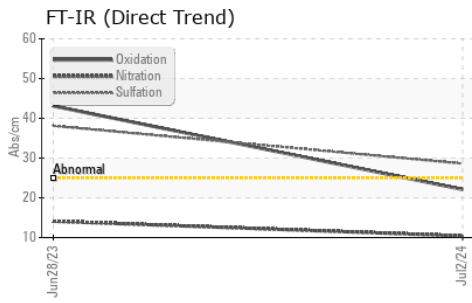
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	11	17	---
Potassium	ppm	ASTM D5185m	>20	17	37	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>7.5	0.8	1.3	---
Nitration	Abs/cm	*ASTM D7624	>20	10.4	14.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.6	38.1	---
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 result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	4	---
Boron	ppm	ASTM D5185m		12	40	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		35	80	---
Manganese	ppm	ASTM D5185m		1	3	---
Magnesium	ppm	ASTM D5185m		200	433	---
Calcium	ppm	ASTM D5185m		2186	1759	---
Phosphorus	ppm	ASTM D5185m	1260	1040	1095	---
Zinc	ppm	ASTM D5185m	1400	1225	1396	---
Sulfur	ppm	ASTM D5185m		3866	3291	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	43.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	4.3	▲ 2.6	---
Visc @ 100°C	cSt	ASTM D445	11.1	11.5	▲ 12.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0004726 **Received** : 09 Jul 2024
Lab Number : 06231242 **Tested** : 10 Jul 2024
Unique Number : 11114735 **Diagnosed** : 10 Jul 2024 - Don Baldrige
Test Package : FLEET

RTL PACLEASE - 7009 - Nashville
 900 Expo Dr.
 Smyrna, TN
 US 37167

Contact: Jon Atwood
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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)

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