



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 827883

Component
Diesel Engine

Fluid
CHEVRON DELO 400 SAE 10W30 (44 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		RPL0004774	RPL0004794	---
Sample Date		Client Info		04 Jun 2024	12 Dec 2022	---
Machine Age	mls	Client Info		230593	116238	---
Oil Age	mls	Client Info		43827	21739	---
Filter Age	mls	Client Info		43827	21739	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	165	61	---
Chromium	ppm	ASTM D5185m	>5	4	2	---
Nickel	ppm	ASTM D5185m	>4	1	<1	---
Titanium	ppm	ASTM D5185m	>2	1	<1	---
Silver	ppm	ASTM D5185m	>2	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	12	19	---
Lead	ppm	ASTM D5185m	>150	27	2	---
Copper	ppm	ASTM D5185m	>90	3	1	---
Tin	ppm	ASTM D5185m	>5	4	1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

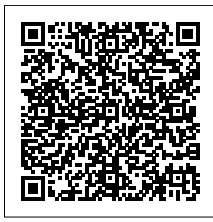
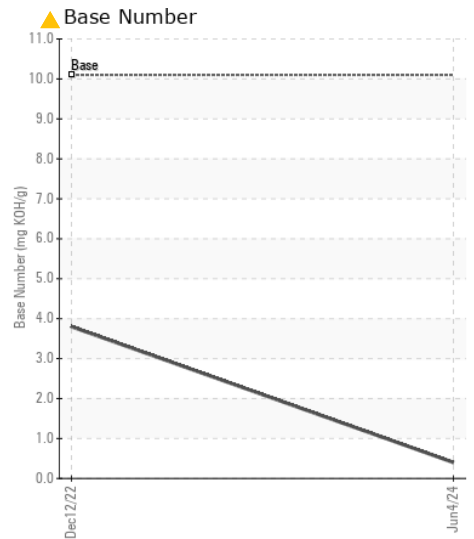
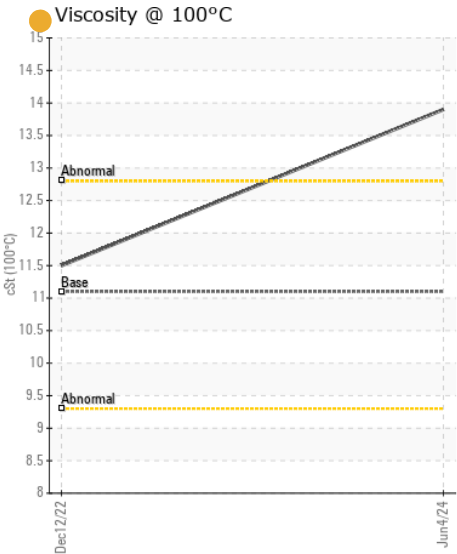
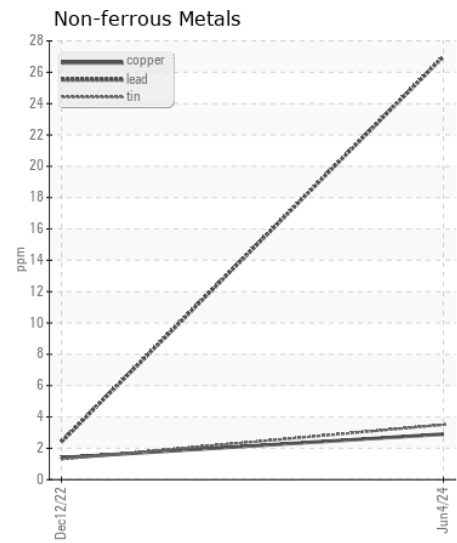
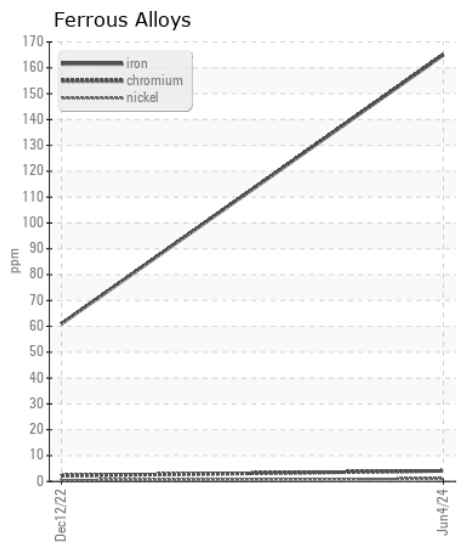
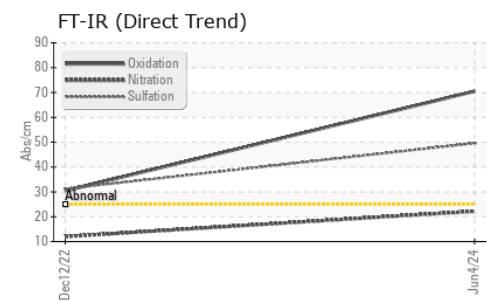
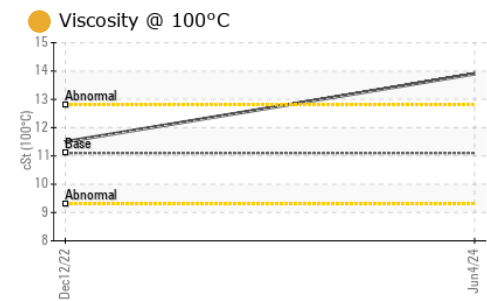
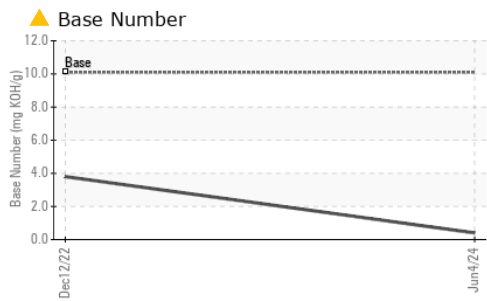
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	22	12	---
Potassium	ppm	ASTM D5185m	>20	19	30	---
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	1.2	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	22.2	12.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	49.6	31.2	---
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 oil viscosity is higher than normal. The BN level is low.

Sodium	ppm	ASTM D5185m		2	2	---
Boron	ppm	ASTM D5185m		55	55	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		106	90	---
Manganese	ppm	ASTM D5185m		2	<1	---
Magnesium	ppm	ASTM D5185m		444	399	---
Calcium	ppm	ASTM D5185m		1709	1609	---
Phosphorus	ppm	ASTM D5185m	1260	1164	1039	---
Zinc	ppm	ASTM D5185m	1400	1480	1393	---
Sulfur	ppm	ASTM D5185m		3056	3475	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	70.5	30.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	0.4	3.8	---
Visc @ 100°C	cSt	ASTM D445	11.1	13.9	11.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0004774
Lab Number : 06223166
Unique Number : 11101363
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: Jon Atwood
 AtwoodJ@RushEnterprises.com
 T: (800)489-7403
 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)