



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 496356
Component
Diesel Engine
Fluid
CITGO CITGUARD 600 15W40 (24 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022271	RPL0004370	---
Sample Date		Client Info		28 Jun 2024	18 May 2023	---
Machine Age	mls	Client Info		54612	42412	---
Oil Age	mls	Client Info		12200	12675	---
Filter Age	mls	Client Info		12200	12675	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	MARGINAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	35	28	---
Chromium	ppm	ASTM D5185m	>20	1	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	16	15	---
Lead	ppm	ASTM D5185m	>40	0	1	---
Copper	ppm	ASTM D5185m	>330	30	116	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

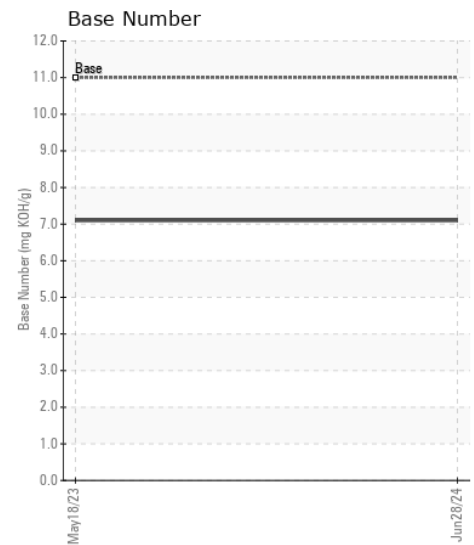
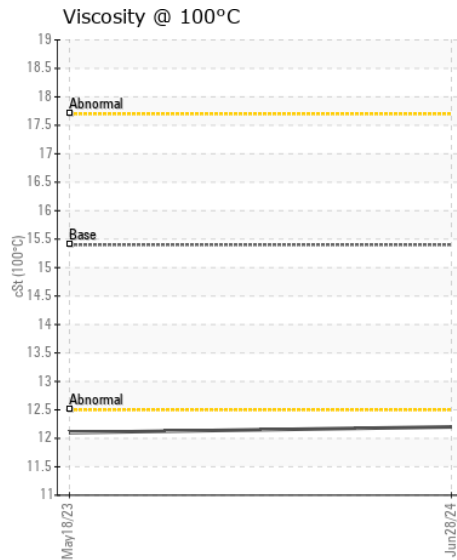
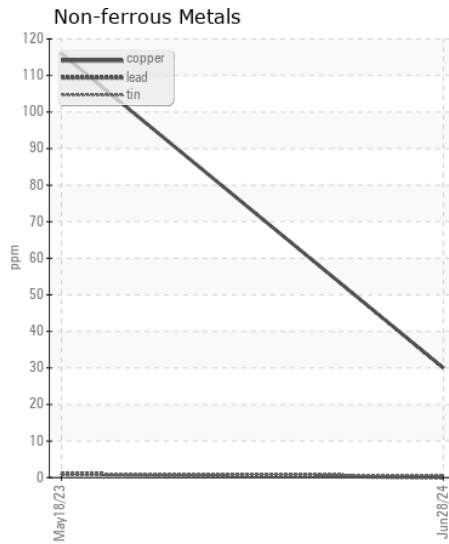
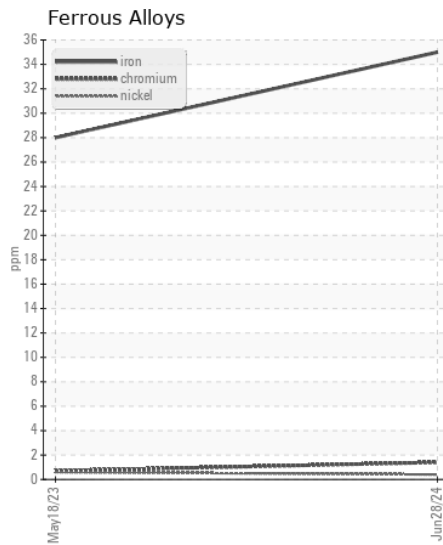
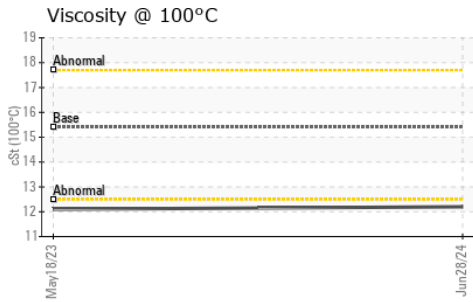
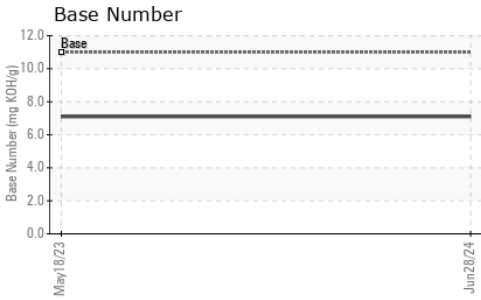
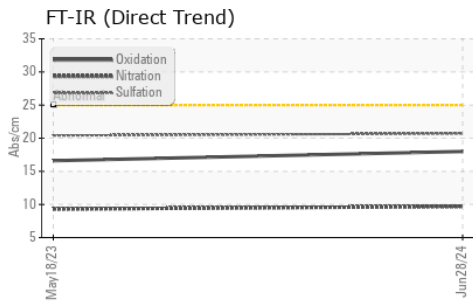
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	5	---
Potassium	ppm	ASTM D5185m	>20	21	26	---
Fuel		WC Method	>5	<1.0	▲ 2.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.4	---
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 suitable for further service.

Sodium	ppm	ASTM D5185m		4	0	---
Boron	ppm	ASTM D5185m	13	3	<1	---
Barium	ppm	ASTM D5185m	0	0	10	---
Molybdenum	ppm	ASTM D5185m	57	59	61	---
Manganese	ppm	ASTM D5185m		2	<1	---
Magnesium	ppm	ASTM D5185m	825	399	407	---
Calcium	ppm	ASTM D5185m	1100	1697	1549	---
Phosphorus	ppm	ASTM D5185m	933	990	857	---
Zinc	ppm	ASTM D5185m	1089	1219	1167	---
Sulfur	ppm	ASTM D5185m	2769	3480	3103	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	16.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	7.1	7.1	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.2	12.1	---



Certificate L2367

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

Sample No. : RPL0022271

Lab Number : 06238807

Unique Number : 11127641

Test Package : FLEET

Received : 17 Jul 2024

Tested : 17 Jul 2024

Diagnosed : 17 Jul 2024 - Wes Davis

RTL PACLEASE - 7025 - Tampa

8109 East Adamo Drive

Tampa, FL

US 33619

Contact: Michael Reid

REIDM@RushEnterprises.com

T: (813)371-2130

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)