



WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**

OIL ANALYSIS REPORT

Area

{UNASSIGNED}

Machine Id

PETERBILT Peterbilt

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022272	RPL0004177	---
Sample Date		Client Info		10 Jul 2024	15 Mar 2024	---
Machine Age	mls	Client Info		246926	0	---
Oil Age	mls	Client Info		12440	0	---
Filter Age	mls	Client Info		12440	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	11	20	---
Chromium	ppm	ASTM D5185m	>5	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m	>2	0	0	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	4	3	---
Lead	ppm	ASTM D5185m	>150	0	2	---
Copper	ppm	ASTM D5185m	>90	6	<1	---
Tin	ppm	ASTM D5185m	>5	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

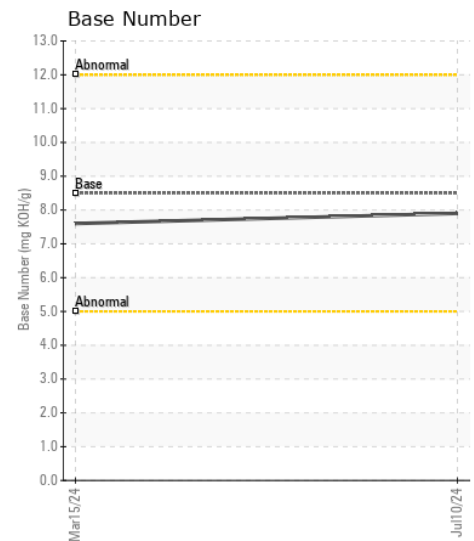
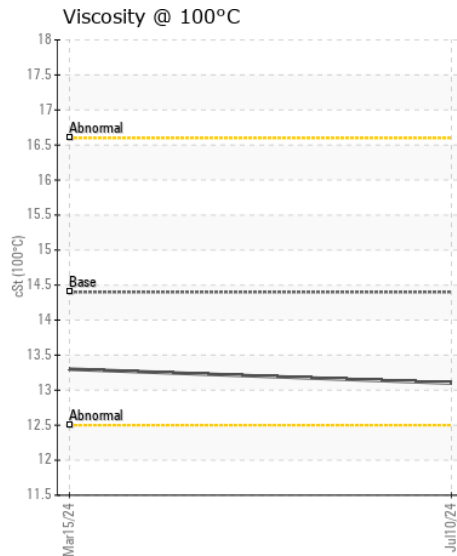
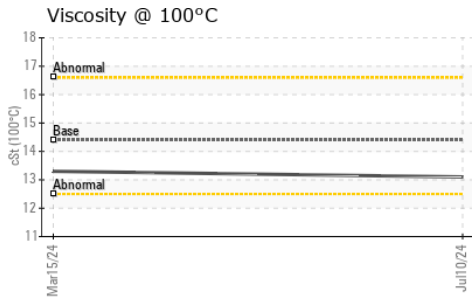
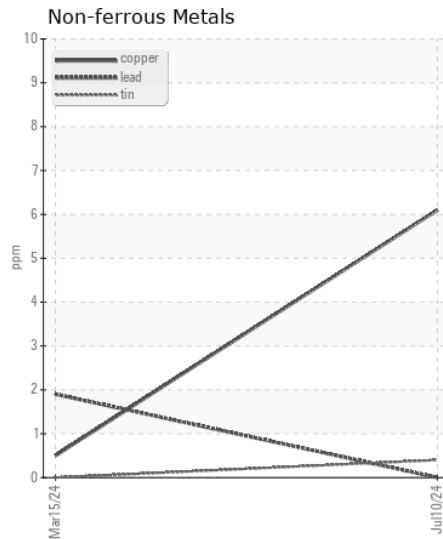
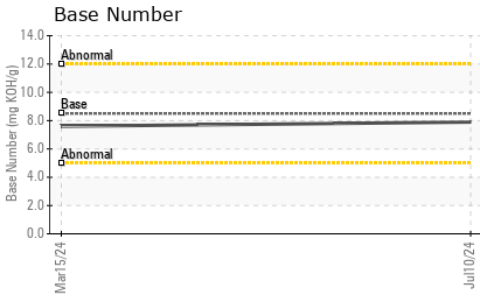
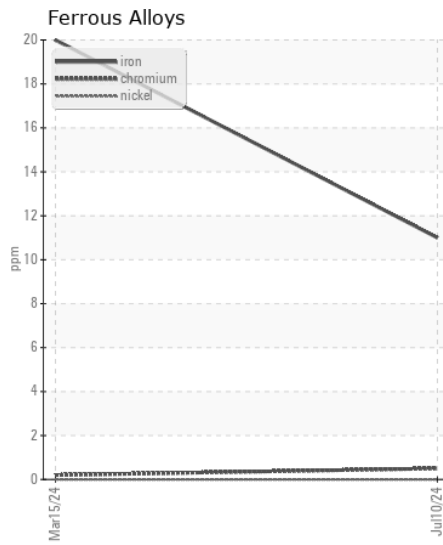
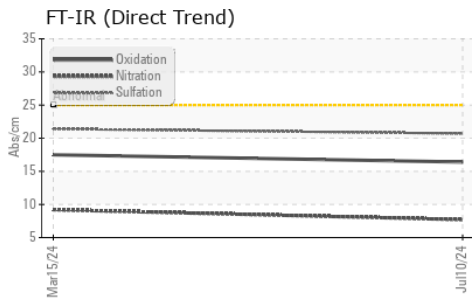
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	5	5	---
Potassium	ppm	ASTM D5185m	>20	5	4	---
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	0.3	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	7.7	9.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	21.4	---
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	>216	3	<1	---
Boron	ppm	ASTM D5185m	250	3	0	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	61	57	---
Manganese	ppm	ASTM D5185m		2	0	---
Magnesium	ppm	ASTM D5185m	450	417	411	---
Calcium	ppm	ASTM D5185m	3000	1779	1745	---
Phosphorus	ppm	ASTM D5185m	1150	1044	968	---
Zinc	ppm	ASTM D5185m	1350	1288	1269	---
Sulfur	ppm	ASTM D5185m	4250	3775	3456	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	17.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.9	7.6	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	13.3	---



Certificate L2367

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

Sample No. : RPL0022272

Lab Number : 06238808

Unique Number : 11127642

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

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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)