



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Rental
 Machine Id
PETERBILT 149972
 Component
Diesel Engine
 Fluid
SHELL 15W40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021230	RPL0021160	---
Sample Date		Client Info		09 Jul 2024	29 May 2024	---
Machine Age	hrs	Client Info		4843	0	---
Oil Age	hrs	Client Info		4843	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	9	41	---
Chromium	ppm	ASTM D5185m	>4	<1	<1	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>25	3	4	---
Lead	ppm	ASTM D5185m	>45	0	<1	---
Copper	ppm	ASTM D5185m	>85	1	4	---
Tin	ppm	ASTM D5185m	>4	0	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

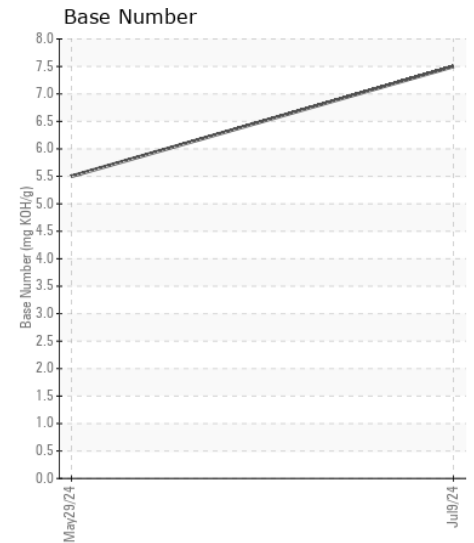
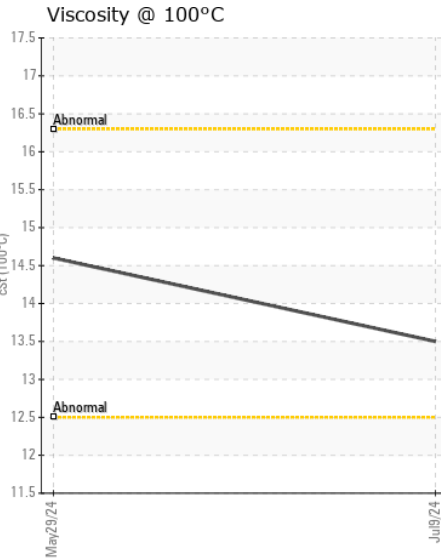
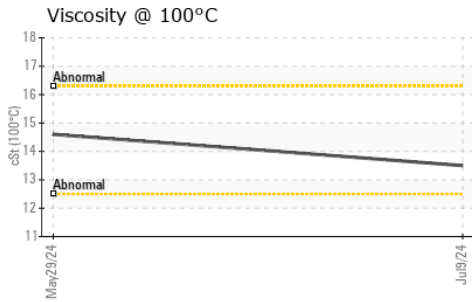
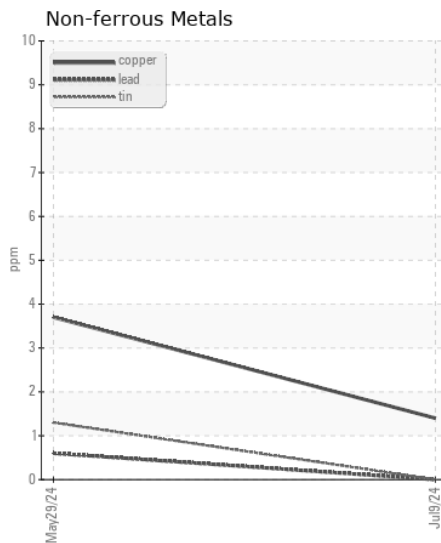
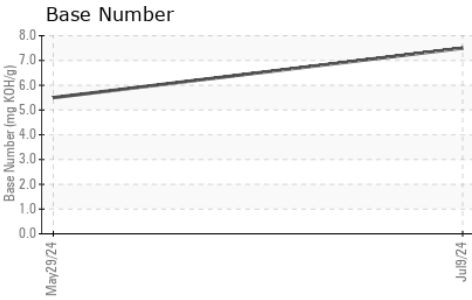
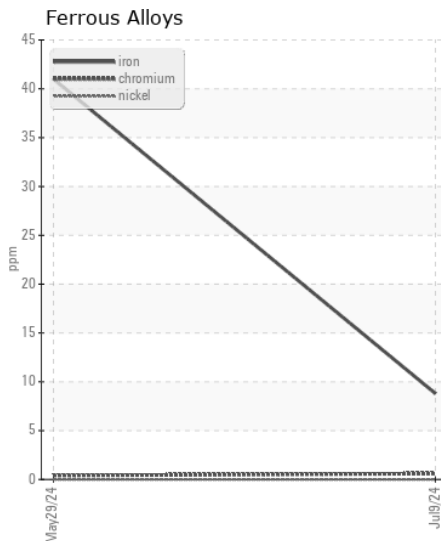
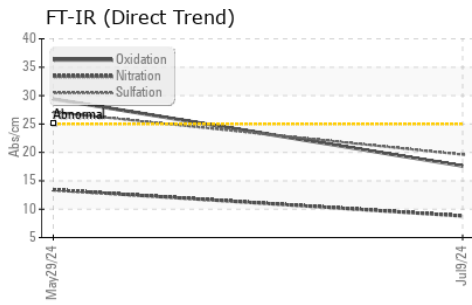
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	5	11	---
Potassium	ppm	ASTM D5185m	>20	2	5	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	8.8	13.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	27.1	---
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 suitable for further service.

Sodium	ppm	ASTM D5185m	>150	2	6	---
Boron	ppm	ASTM D5185m		82	29	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		103	69	---
Manganese	ppm	ASTM D5185m		0	1	---
Magnesium	ppm	ASTM D5185m		607	624	---
Calcium	ppm	ASTM D5185m		1413	1618	---
Phosphorus	ppm	ASTM D5185m		735	840	---
Zinc	ppm	ASTM D5185m		876	1006	---
Sulfur	ppm	ASTM D5185m		2539	3043	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	29.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	5.5	---
Visc @ 100°C	cSt	ASTM D445		13.5	14.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021230 **Received** : 12 Jul 2024
Lab Number : 06234590 **Tested** : 12 Jul 2024
Unique Number : 11123424 **Diagnosed** : 12 Jul 2024 - Wes Davis
Test Package : FLEET

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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)