



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
PETERBILT 8465181
Component
1 Diesel Engine
Fluid
MOBIL DELVAC ELITE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020403	RPL0017590	---
Sample Date		Client Info		11 May 2024	24 Jan 2024	---
Machine Age	mls	Client Info		19697	9200	---
Oil Age	mls	Client Info		19697	9200	---
Filter Age	mls	Client Info		19697	9200	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>110	52	17	---
Chromium	ppm	ASTM D5185m	>4	2	<1	---
Nickel	ppm	ASTM D5185m	>2	2	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	2	<1	---
Aluminum	ppm	ASTM D5185m	>25	19	8	---
Lead	ppm	ASTM D5185m	>45	5	2	---
Copper	ppm	ASTM D5185m	>85	37	20	---
Tin	ppm	ASTM D5185m	>4	5	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

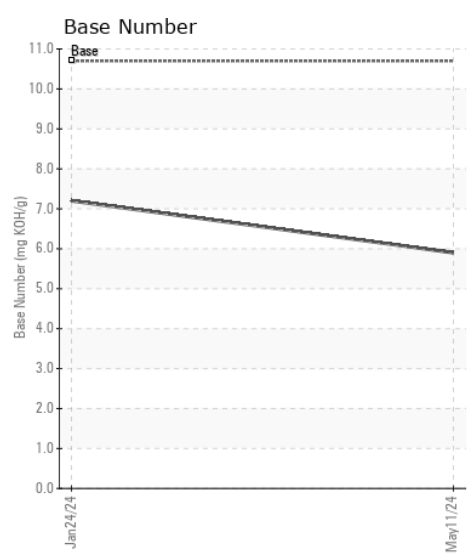
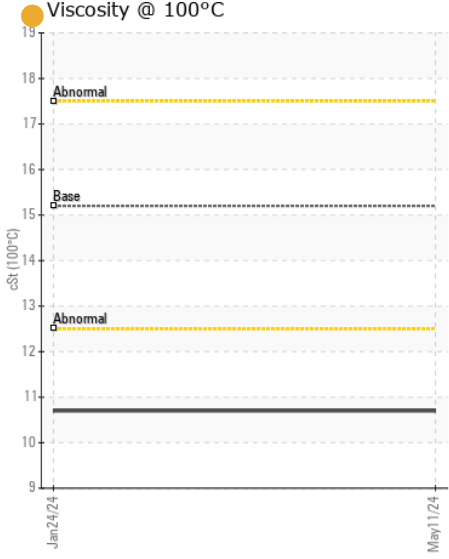
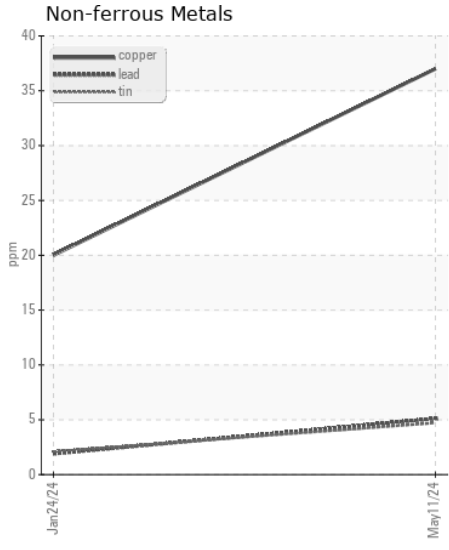
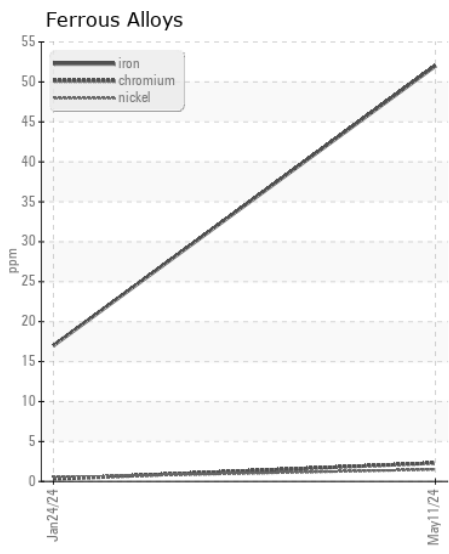
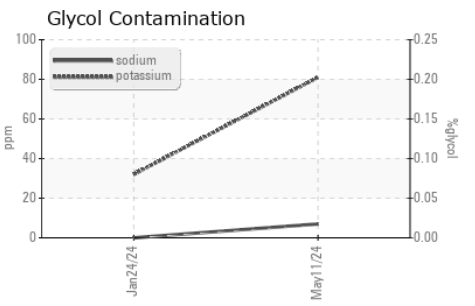
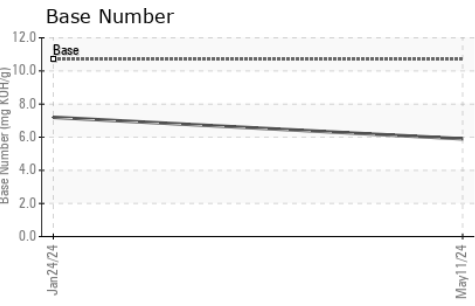
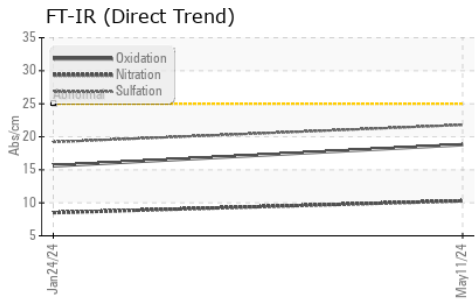
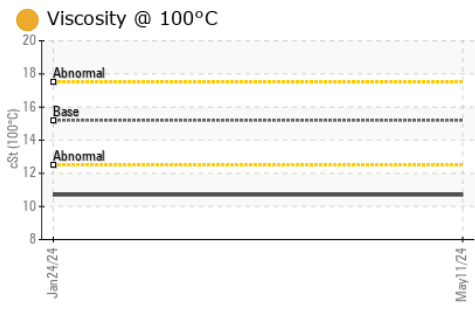
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>30	53	34	---
Potassium	ppm	ASTM D5185m	>20	▲ 81	32	---
Fuel		WC Method	>5	<1.0	▲ 3.2	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	*ASTM D2982		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	10.3	8.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	19.2	---
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 lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		7	0	---
Boron	ppm	ASTM D5185m		45	57	---
Barium	ppm	ASTM D5185m		8	5	---
Molybdenum	ppm	ASTM D5185m		18	● 13	---
Manganese	ppm	ASTM D5185m		7	4	---
Magnesium	ppm	ASTM D5185m		952	● 653	---
Calcium	ppm	ASTM D5185m		1621	1190	---
Phosphorus	ppm	ASTM D5185m		870	● 704	---
Zinc	ppm	ASTM D5185m		1083	● 770	---
Sulfur	ppm	ASTM D5185m		3646	3073	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	5.9	7.2	---
Visc @ 100°C	cSt	ASTM D445	15.2	● 10.7	▲ 10.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020403 **Received** : 28 May 2024
Lab Number : 06191913 **Tested** : 30 May 2024
Unique Number : 11048665 **Diagnosed** : 30 May 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

RTL PACLEASE - 7006 - Pico Rivera
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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)