



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
[43053065]
 Machine Id
PETERBILT 957-1708 Southwaste
 Component
Diesel Engine
 Fluid
MOBIL DELVAC MX 15W40 (48 QTS)

RECOMMENDATION

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016416	RPL0013660	---
Sample Date		Client Info		06 Feb 2024	11 Oct 2023	---
Machine Age	mls	Client Info		82455	69855	---
Oil Age	mls	Client Info		29301	16701	---
Filter Age	mls	Client Info		29301	16701	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	▲ 141	23	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	79	35	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	15	3	---
Tin	ppm	ASTM D5185m	>15	1	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

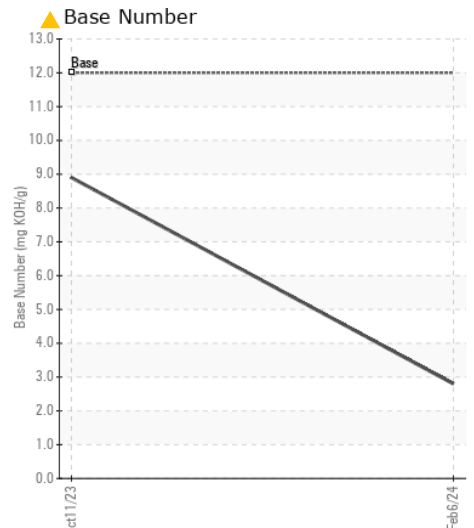
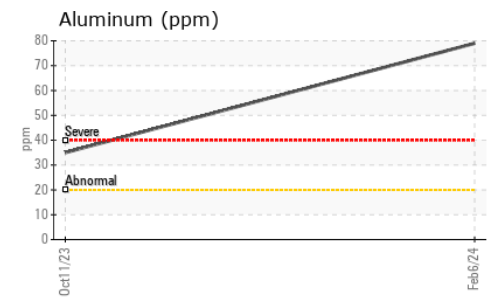
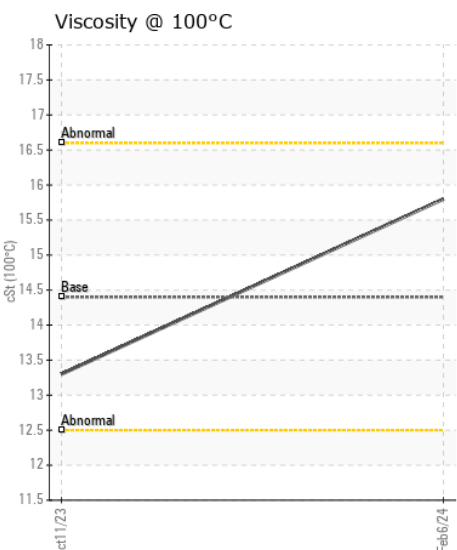
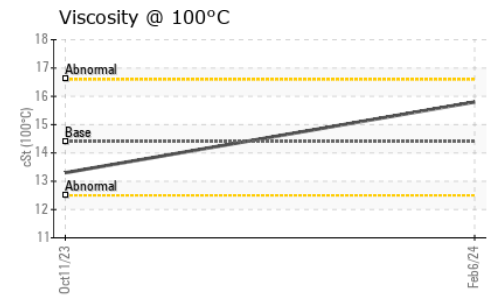
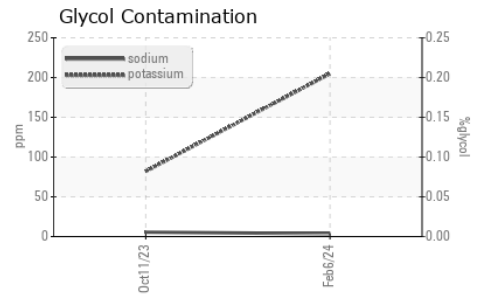
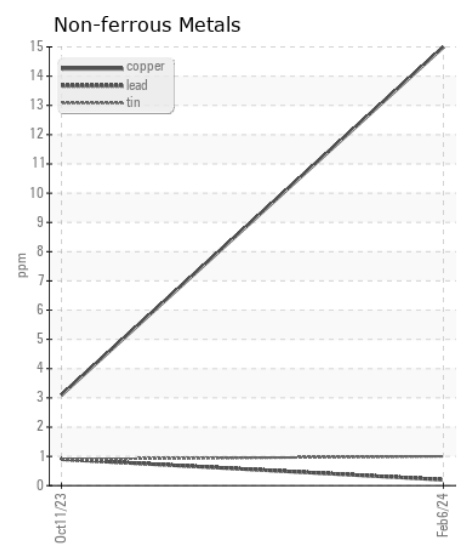
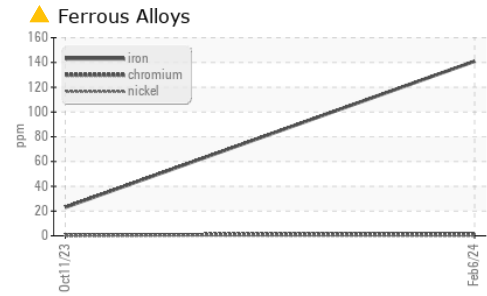
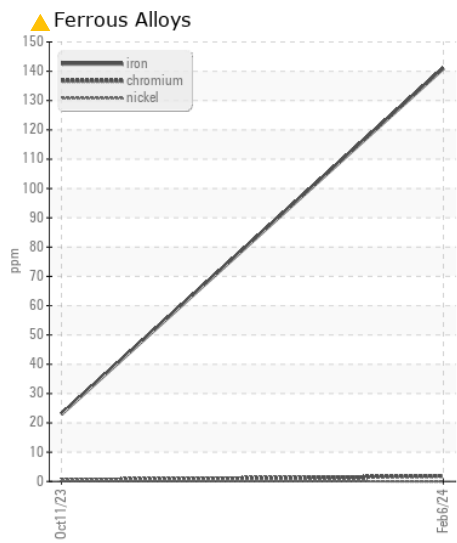
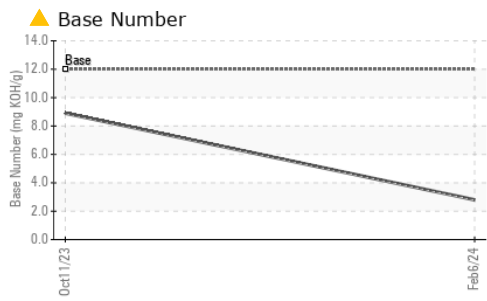
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

Silicon	ppm	ASTM D5185m	>25	18	10	---
Potassium	ppm	ASTM D5185m	>20	205	82	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.8	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	18.7	9.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	35.6	22.5	---
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 level is low. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	6	---
Boron	ppm	ASTM D5185m		26	25	---
Barium	ppm	ASTM D5185m		9	0	---
Molybdenum	ppm	ASTM D5185m		45	38	---
Manganese	ppm	ASTM D5185m		2	1	---
Magnesium	ppm	ASTM D5185m		880	509	---
Calcium	ppm	ASTM D5185m		1365	1542	---
Phosphorus	ppm	ASTM D5185m		895	776	---
Zinc	ppm	ASTM D5185m		1189	892	---
Sulfur	ppm	ASTM D5185m		2838	2211	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	40.6	22.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	12	▲ 2.8	8.9	---
Visc @ 100°C	cSt	ASTM D445	14.4	15.8	13.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016416 **Received** : 14 Feb 2024
Lab Number : 06088523 **Tested** : 15 Feb 2024
Unique Number : 10875968 **Diagnosed** : 15 Feb 2024 - Don Baldrige
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)