



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**PETERBILT 117328**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON 15W40 (47 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0009868</b>	RPL0003413	---
Sample Date		Client Info		<b>02 Oct 2023</b>	16 Jan 2023	---
Machine Age	mls	Client Info		<b>401086</b>	401086	---
Oil Age	mls	Client Info		<b>401086</b>	33614	---
Filter Age	mls	Client Info		<b>0</b>	33614	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>25</b>	18	---
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	4	---
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>85	<b>3</b>	2	---
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

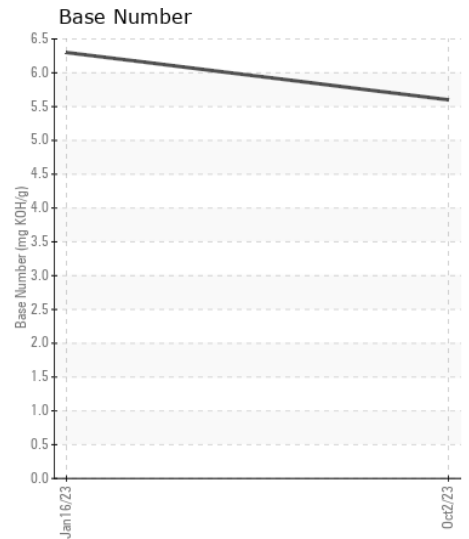
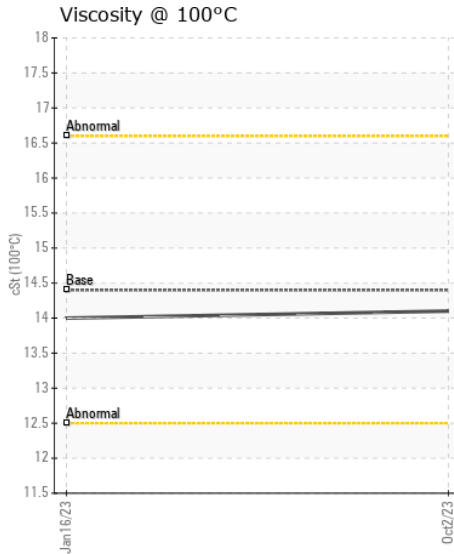
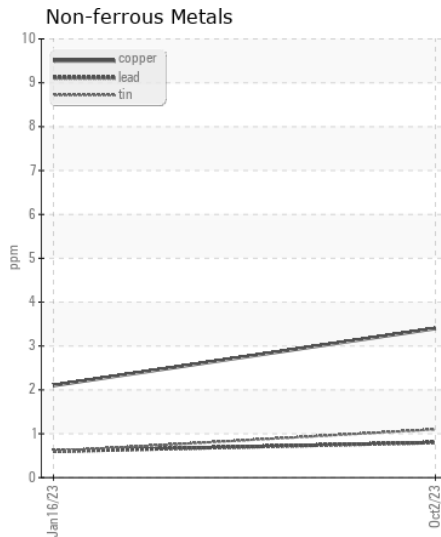
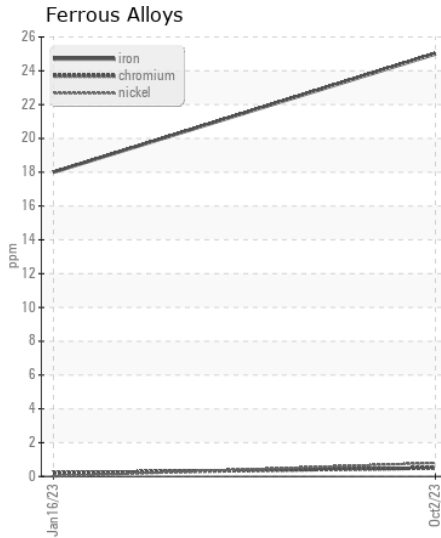
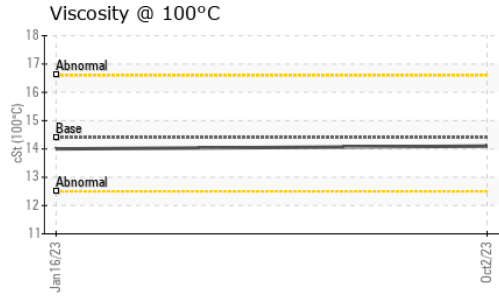
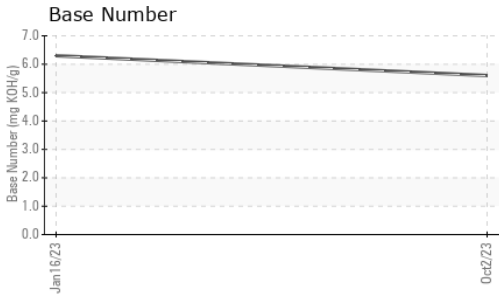
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>13</b>	9	---
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	2	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>1.2</b>	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.7</b>	23.8	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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	>50	<b>0</b>	1	---
Boron	ppm	ASTM D5185m		<b>38</b>	140	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>85</b>	93	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>400</b>	373	---
Calcium	ppm	ASTM D5185m		<b>1420</b>	1522	---
Phosphorus	ppm	ASTM D5185m		<b>912</b>	999	---
Zinc	ppm	ASTM D5185m		<b>1278</b>	1257	---
Sulfur	ppm	ASTM D5185m		<b>3026</b>	3570	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	16.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.6</b>	6.3	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.1</b>	14.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0009868 **Received** : 09 Jan 2024  
**Lab Number** : 06055210 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821159 **Diagnostician** : 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)