



# OIL ANALYSIS REPORT

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

Area

**Rockaway**

Machine Id

**PETERBILT 6748**

Component

**Diesel Engine**

Fluid

**GIBRALTAR 15W/40 SUPER S-3 LX (11 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0840415</b>	WC0774751	---
Sample Date		Client Info		<b>30 May 2024</b>	29 Sep 2023	---
Machine Age	hrs	Client Info		<b>650</b>	407	---
Oil Age	hrs	Client Info		<b>407</b>	407	---
Filter Age	hrs	Client Info		<b>407</b>	407	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>110	<b>34</b>	81	---
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>13</b>	25	---
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>85	<b>61</b>	41	---
Tin	ppm	ASTM D5185m	>4	<b>1</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

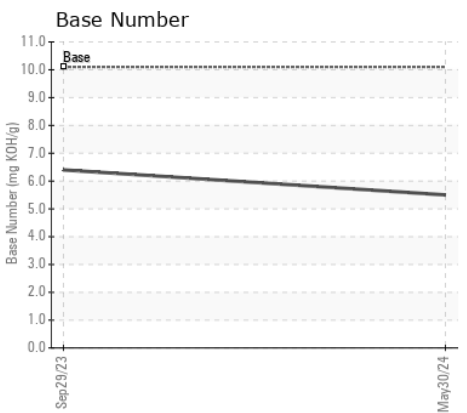
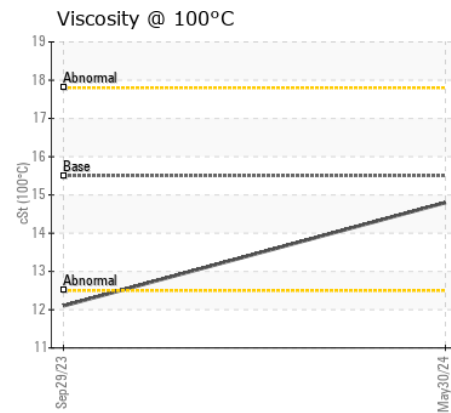
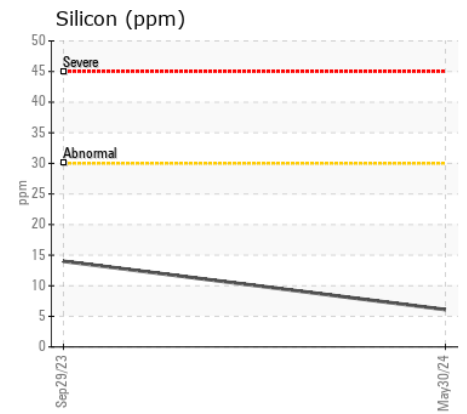
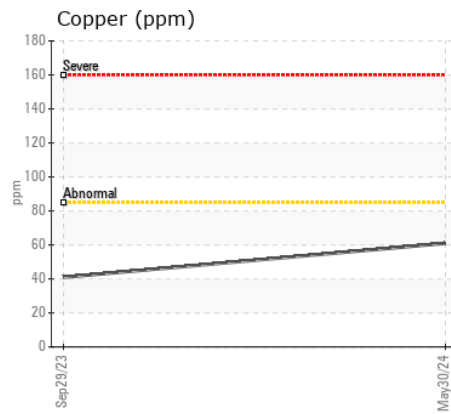
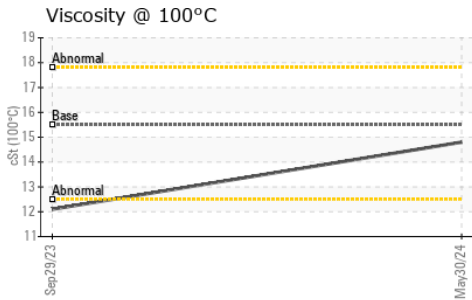
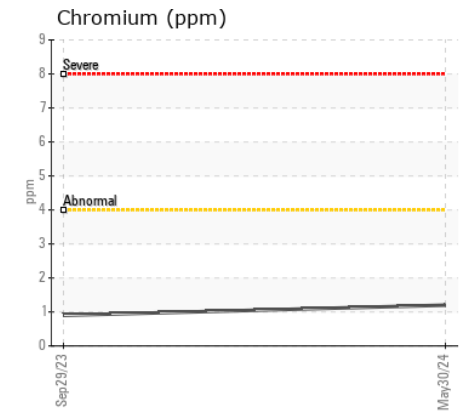
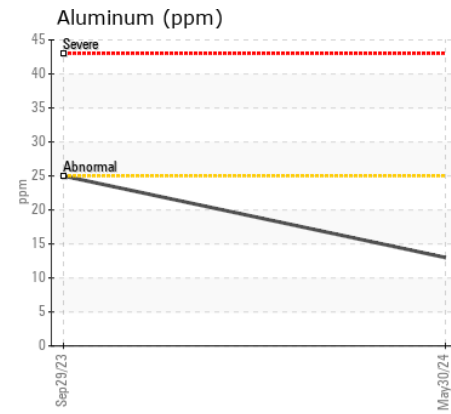
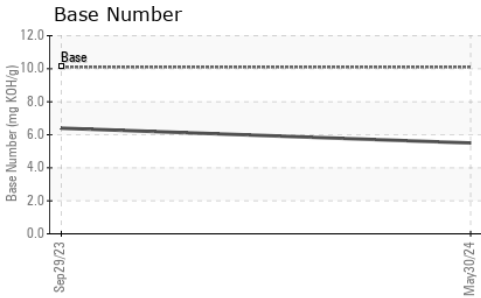
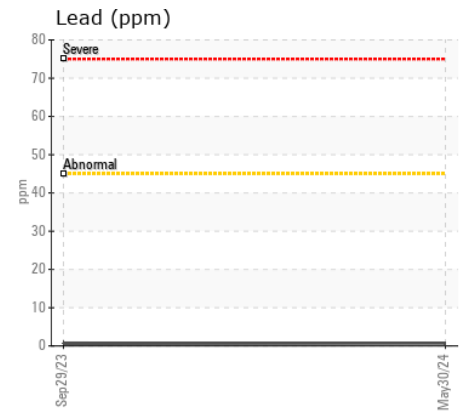
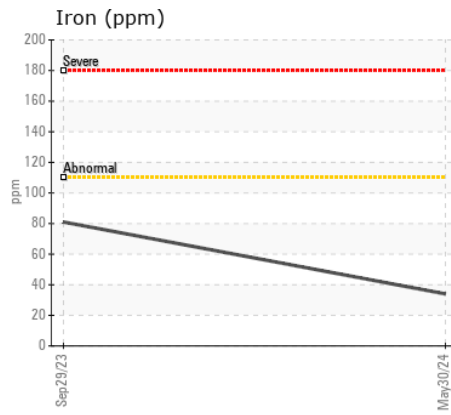
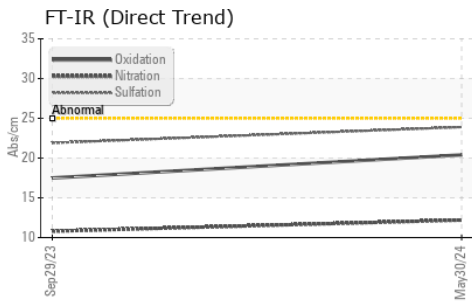
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>6</b>	14	---
Potassium	ppm	ASTM D5185m	>20	<b>19</b>	77	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	0.3	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	10.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.9</b>	21.9	---
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		<b>2</b>	1	---
Boron	ppm	ASTM D5185m		<b>6</b>	45	---
Barium	ppm	ASTM D5185m		<b>1</b>	1	---
Molybdenum	ppm	ASTM D5185m	66	<b>64</b>	25	---
Manganese	ppm	ASTM D5185m		<b>2</b>	3	---
Magnesium	ppm	ASTM D5185m	1000	<b>831</b>	898	---
Calcium	ppm	ASTM D5185m	1050	<b>1285</b>	1643	---
Phosphorus	ppm	ASTM D5185m	1150	<b>896</b>	915	---
Zinc	ppm	ASTM D5185m	1270	<b>1211</b>	1082	---
Sulfur	ppm	ASTM D5185m		<b>2622</b>	3788	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.4</b>	17.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>5.5</b>	6.4	---
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.8</b>	12.1	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0840415 **Received** : 28 Jun 2024  
**Lab Number** : 06223143 **Tested** : 28 Jun 2024  
**Unique Number** : 11101340 **Diagnosed** : 28 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**INTERSTATE WASTE-ROCKAWAY**  
 311 WEST MAIN STREET, STE 8  
 ROCKAWAY, NJ  
 US 07866  
 Contact: Service Manager

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)

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F: