



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Rockaway**  
Machine Id  
**PETERBILT 6671**  
Component  
**Diesel Engine**  
Fluid  
**GIBRALTAR 15W/40 SUPER S-3 LX (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0858425</b>	WC0858456	WC0840416
Sample Date		Client Info		<b>30 May 2024</b>	15 Feb 2024	15 Jan 2024
Machine Age	hrs	Client Info		<b>9062865</b>	16759	9062865
Oil Age	hrs	Client Info		<b>9062865</b>	9062865	90628
Filter Age	hrs	Client Info		<b>9062865</b>	9062865	90628
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>12</b>	38	4
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	22	2
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m	>85	<b>2</b>	▲ 71	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

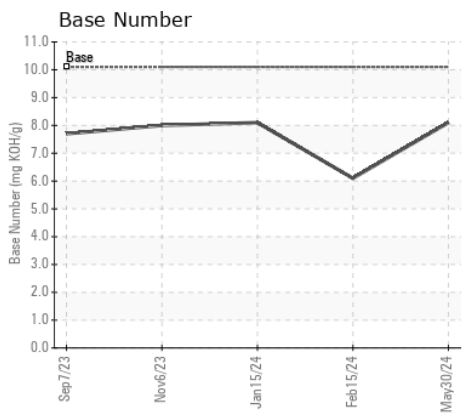
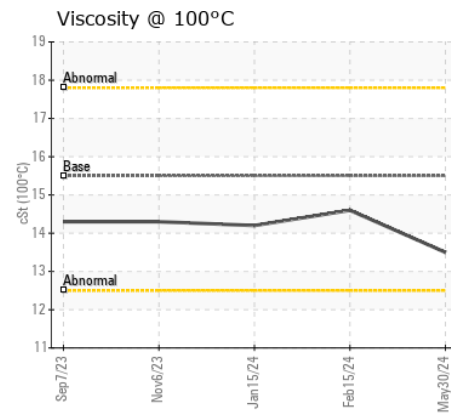
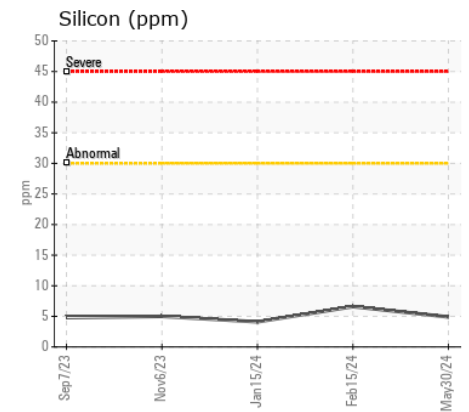
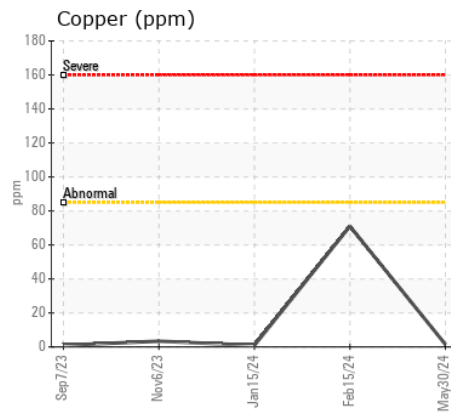
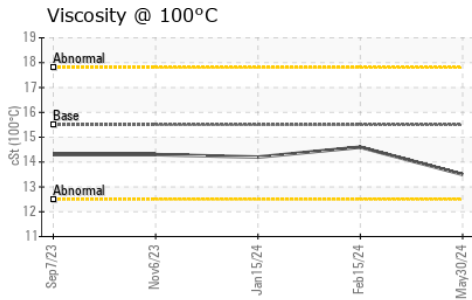
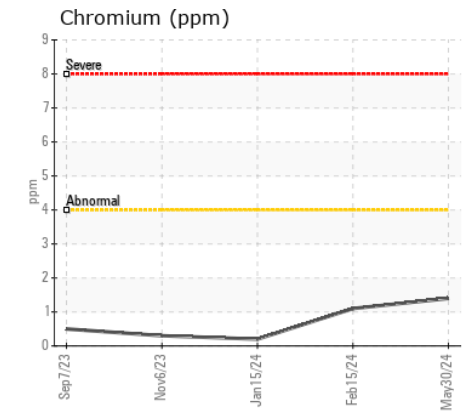
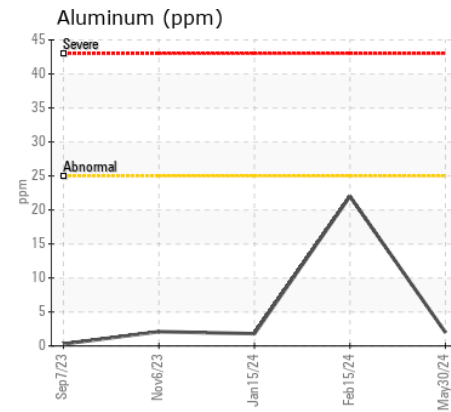
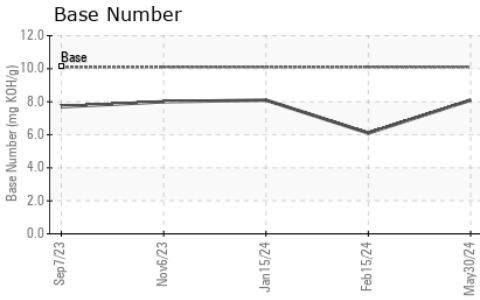
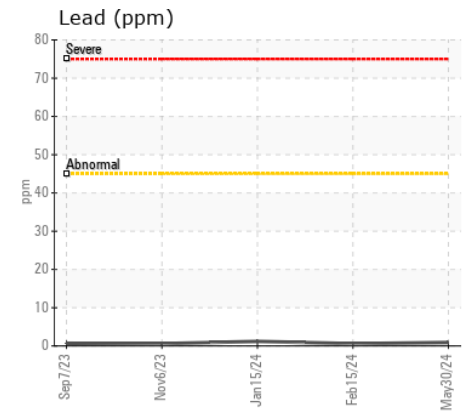
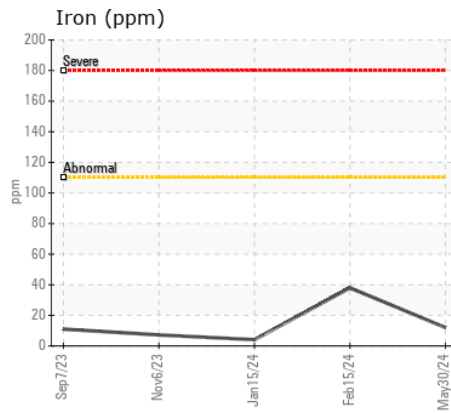
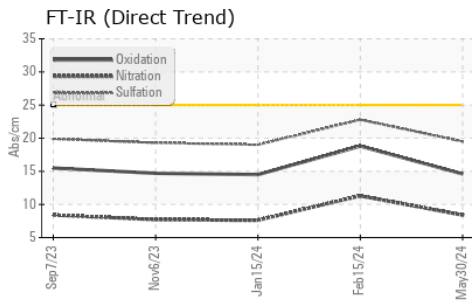
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>5</b>	7	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	59	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.4</b>	11.3	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.5</b>	22.8	19.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>1</b>	2	1
Boron	ppm	ASTM D5185m		<b>7</b>	7	15
Barium	ppm	ASTM D5185m		<b>1</b>	1	0
Molybdenum	ppm	ASTM D5185m	66	<b>59</b>	63	62
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185m	1000	<b>827</b>	814	796
Calcium	ppm	ASTM D5185m	1050	<b>1172</b>	1278	1168
Phosphorus	ppm	ASTM D5185m	1150	<b>926</b>	895	1084
Zinc	ppm	ASTM D5185m	1270	<b>1179</b>	1191	1245
Sulfur	ppm	ASTM D5185m		<b>2939</b>	2612	3275
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	18.8	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>8.1</b>	6.1	8.1
Visc @ 100°C	cSt	ASTM D445	15.5	<b>13.5</b>	14.6	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0858425 **Received** : 28 Jun 2024  
**Lab Number** : 06223146 **Tested** : 28 Jun 2024  
**Unique Number** : 11101343 **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: