



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**Ewing Hauling**

Machine Id

**PETERBILT 2606**

Component

**Diesel Engine**

Fluid

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0831115</b>	---	---
Sample Date	Client Info		<b>14 Aug 2023</b>	---	---
Machine Age	hrs	Client Info	<b>6318</b>	---	---
Oil Age	hrs	Client Info	<b>150</b>	---	---
Oil Changed	Client Info		<b>Filtered</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >110	<b>6</b>	---	---
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m >2	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>1</b>	---	---
Lead	ppm	ASTM D5185m >45	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >85	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m >4	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>26</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m 66	<b>66</b>	---	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m 1000	<b>826</b>	---	---
Calcium	ppm	ASTM D5185m 1050	<b>1346</b>	---	---
Phosphorus	ppm	ASTM D5185m 1150	<b>1079</b>	---	---
Zinc	ppm	ASTM D5185m 1270	<b>1266</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>4097</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>4</b>	---	---
Sodium	ppm	ASTM D5185m	<b>2</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---	---

## INFRA-RED

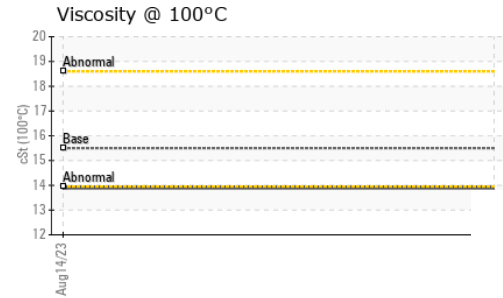
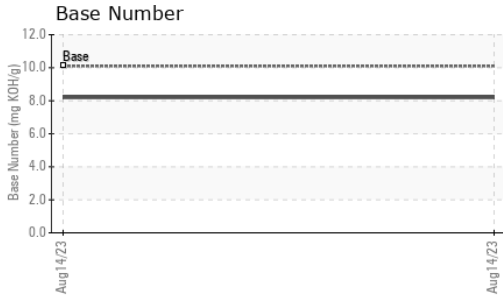
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.6</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>16.8</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>12.1</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.1	<b>8.2</b>	---	---



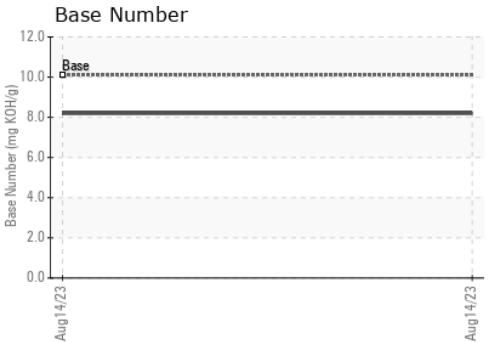
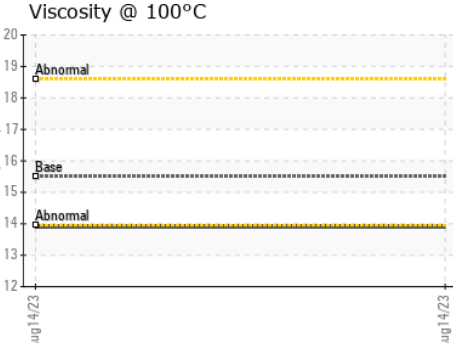
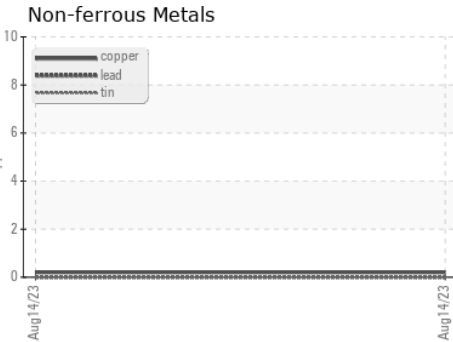
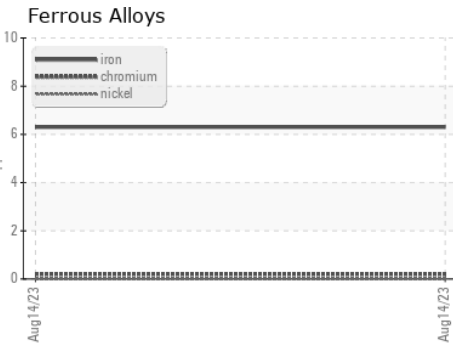
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.5	13.9	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0831115 **Received** : 22 Aug 2023  
**Lab Number** : 05931433 **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10616704 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**INTERSTATE WASTE-EWING**  
 432 STOKES AVENUE  
 EWING TOWNSHIP, NJ  
 US 08638  
 Contact: Carlos Evans  
 CEvans@interstatewaste.com

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: