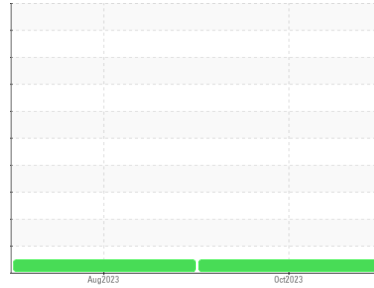




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**PETERBILT 6633**

Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### 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>WC0850611</b>	WC0830861	---
Sample Date	Client Info		<b>16 Oct 2023</b>	09 Aug 2023	---
Machine Age	hrs	Client Info	<b>13353</b>	12984	---
Oil Age	hrs	Client Info	<b>360</b>	150	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	<b>7</b>	7
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	<1
Lead	ppm	ASTM D5185m	>45	<b>0</b>	<1
Copper	ppm	ASTM D5185m	>85	<b>0</b>	1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>14</b>	14
Barium	ppm	ASTM D5185m		<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	66	<b>60</b>	71
Manganese	ppm	ASTM D5185m		<b>0</b>	<1
Magnesium	ppm	ASTM D5185m	1000	<b>881</b>	898
Calcium	ppm	ASTM D5185m	1050	<b>1173</b>	1394
Phosphorus	ppm	ASTM D5185m	1150	<b>1048</b>	1090
Zinc	ppm	ASTM D5185m	1270	<b>1283</b>	1312
Sulfur	ppm	ASTM D5185m		<b>3271</b>	3893

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>4</b>	4
Sodium	ppm	ASTM D5185m		<b>0</b>	2
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0

## INFRA-RED

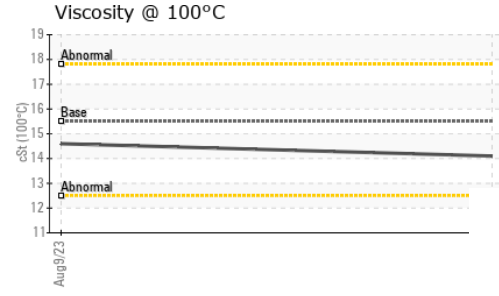
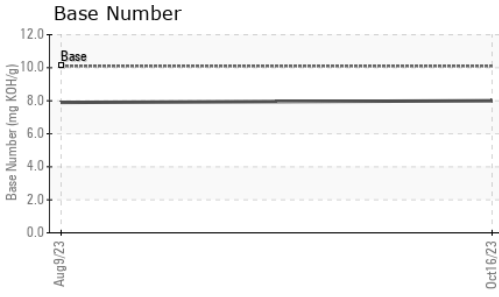
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.0</b>	19.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.7</b>	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>8.0</b>	7.9



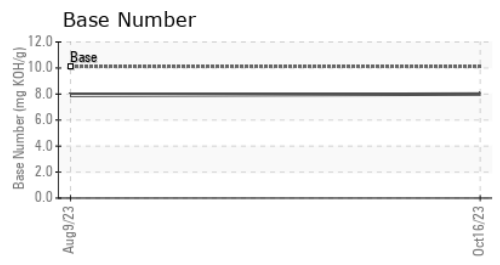
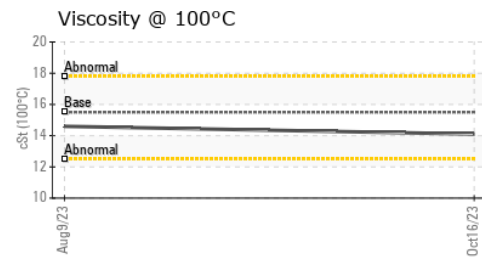
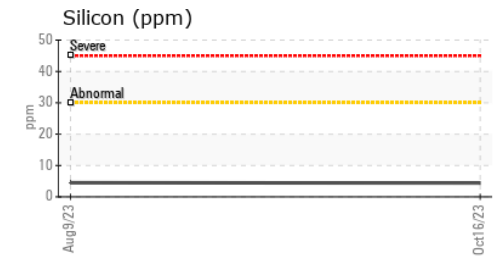
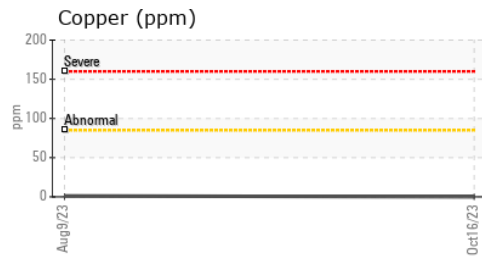
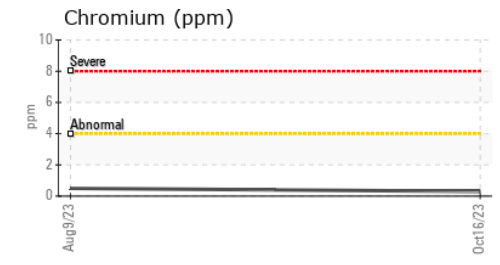
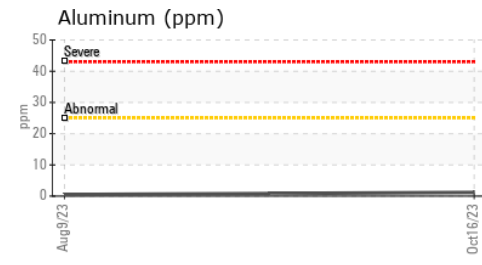
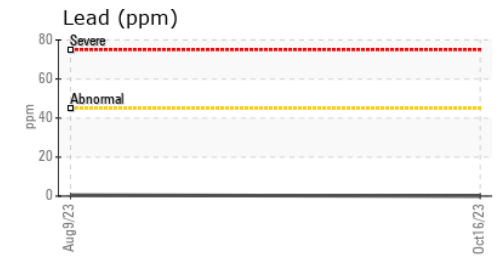
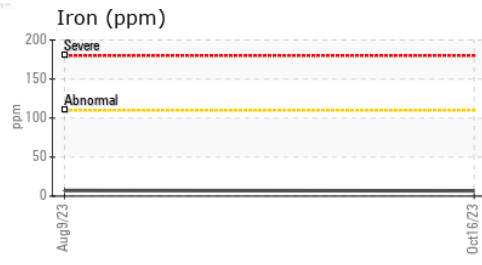
# OIL ANALYSIS REPORT



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	<b>14.1</b>	14.6	---

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0850611      **Received** : 14 Nov 2023  
**Lab Number** : **06007493**      **Diagnosed** : 15 Nov 2023  
**Unique Number** : 10741255      **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**INTERSTATE WASTE-CLOSTER**  
 77 RAILROAD AVENUE  
 CLOSTER, NJ  
 US 07624  
 Contact: Tony Gagliano  
 tgagliano@interstatewaste.com  
 T:  
 F:

Certificate L2367  
 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)