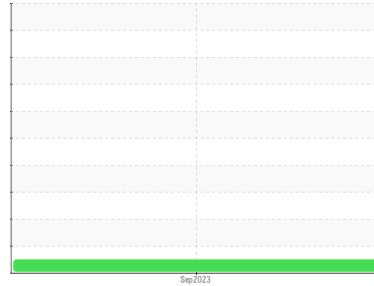




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**442103 - PETERBILT TRACK TRUCK (S/N 1NPSLJ0X8MD678845)**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON ADVANCED 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

Metal levels are typical for a components first oil change.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>SBP0004567</b>	---	---
Sample Date	Client Info	<b>22 Sep 2023</b>	---	---
Machine Age	hrs Client Info	<b>378</b>	---	---
Oil Age	hrs Client Info	<b>378</b>	---	---
Oil Changed	Client Info	<b>Changed</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 >100	<b>57</b>	---	---
Chromium	ppm ASTM D5185m >20	<b>1</b>	---	---
Nickel	ppm ASTM D5185m >4	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185m	<b>0</b>	---	---
Silver	ppm ASTM D5185m >3	<b>&lt;1</b>	---	---
Aluminum	ppm ASTM D5185m >20	<b>56</b>	---	---
Lead	ppm ASTM D5185m >40	<b>4</b>	---	---
Copper	ppm ASTM D5185m >330	<b>345</b>	---	---
Tin	ppm ASTM D5185m >15	<b>&lt;1</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 0	<b>58</b>	---	---
Barium	ppm ASTM D5185m 0	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m 60	<b>35</b>	---	---
Manganese	ppm ASTM D5185m 0	<b>6</b>	---	---
Magnesium	ppm ASTM D5185m 1010	<b>686</b>	---	---
Calcium	ppm ASTM D5185m 1070	<b>1513</b>	---	---
Phosphorus	ppm ASTM D5185m 1150	<b>788</b>	---	---
Zinc	ppm ASTM D5185m 1270	<b>936</b>	---	---
Sulfur	ppm ASTM D5185m 2060	<b>3792</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>23</b>	---	---
Sodium	ppm ASTM D5185m	<b>7</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>202</b>	---	---

## INFRA-RED

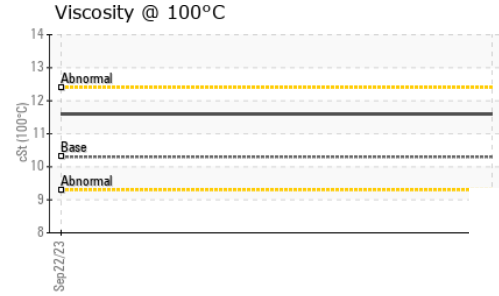
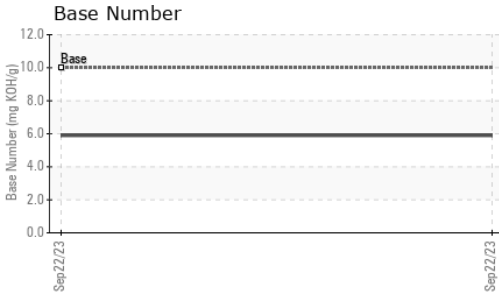
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.2</b>	---	---
Nitration	Abs/cm *ASTM D7624 >20	<b>9.7</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>20.0</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>15.7</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896 10.0	<b>5.9</b>	---	---



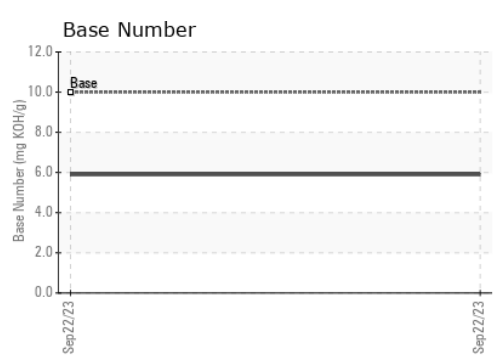
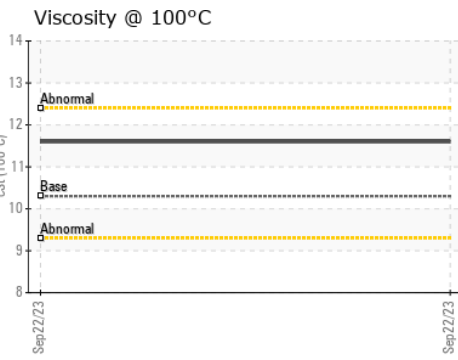
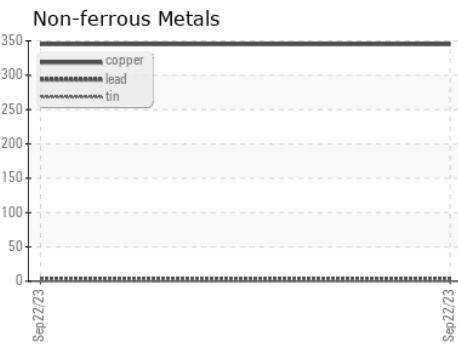
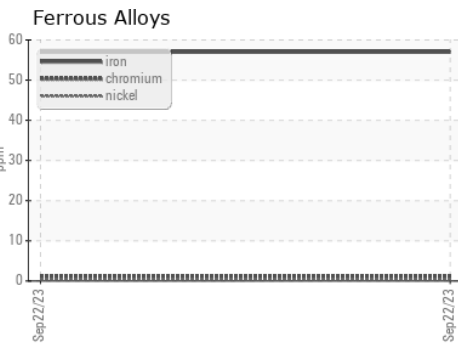
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.3	<b>11.6</b>	---	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0004567 **Received** : 25 Sep 2023  
**Lab Number** : **05960501** **Diagnosed** : 26 Sep 2023  
**Unique Number** : 10661714 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**Constructors Inc. - 603659**  
 1815 Y Street  
 Lincoln, NE  
 US 68508  
 Contact: Jack Linhart  
 jackl@constructorslincoln.com  
 T: (402)434-2157  
 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)