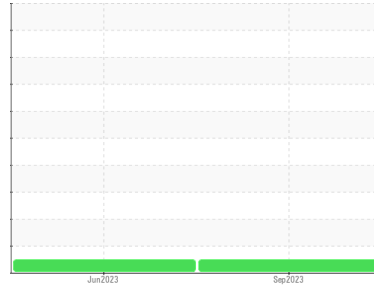


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(AU692W) Supermarket - Tractor**  
Machine Id  
**FREIGHTLINER 107A1868**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

### 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>PCA0104087</b>	PCA0099850	---
Sample Date	Client Info	<b>09 Sep 2023</b>	05 Jun 2023	---
Machine Age	mls	Client Info	<b>235120</b>	215211
Oil Age	mls	Client Info	<b>19909</b>	18675
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 >80	<b>23</b>	13	---
Chromium	ppm ASTM D5185m >5	<b>2</b>	<1	---
Nickel	ppm ASTM D5185m >2	<b>&lt;1</b>	0	---
Titanium	ppm ASTM D5185m	<b>0</b>	<1	---
Silver	ppm ASTM D5185m >3	<b>0</b>	0	---
Aluminum	ppm ASTM D5185m >30	<b>13</b>	3	---
Lead	ppm ASTM D5185m >30	<b>0</b>	0	---
Copper	ppm ASTM D5185m >150	<b>6</b>	4	---
Tin	ppm ASTM D5185m >5	<b>1</b>	<1	---
Vanadium	ppm ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm ASTM D5185m	<b>0</b>	0	---

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>4</b>	5	---
Barium	ppm ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm ASTM D5185m 50	<b>69</b>	66	---
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm ASTM D5185m 950	<b>1026</b>	977	---
Calcium	ppm ASTM D5185m 1050	<b>1213</b>	1172	---
Phosphorus	ppm ASTM D5185m 995	<b>1078</b>	1023	---
Zinc	ppm ASTM D5185m 1180	<b>1368</b>	1261	---
Sulfur	ppm ASTM D5185m 2600	<b>3340</b>	3451	---

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>6</b>	4	---
Sodium	ppm ASTM D5185m	<b>2</b>	2	---
Potassium	ppm ASTM D5185m >20	<b>5</b>	2	---

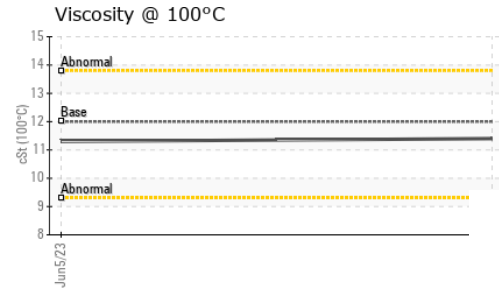
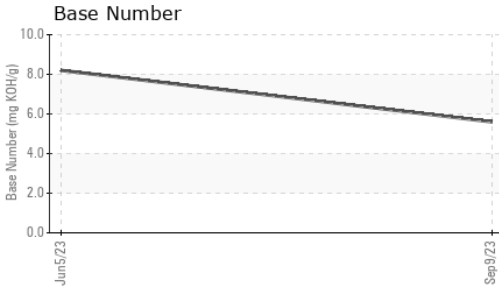
### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.9</b>	0.5	---
Nitration	Abs/cm *ASTM D7624 >20	<b>9.3</b>	8.0	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>22.1</b>	19.9	---

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>18.0</b>	15.5	---
Base Number (BN)	mg KOH/g ASTM D2896	<b>5.6</b>	8.2	---

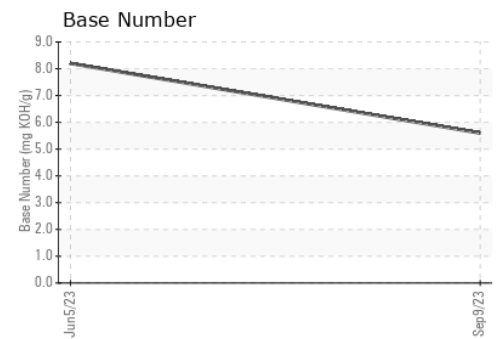
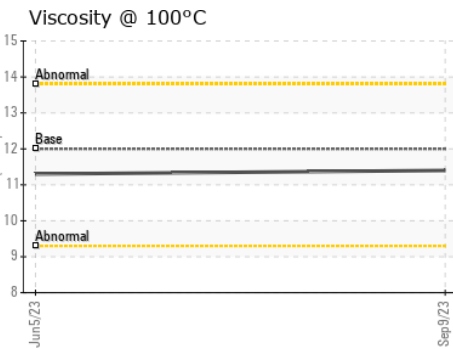
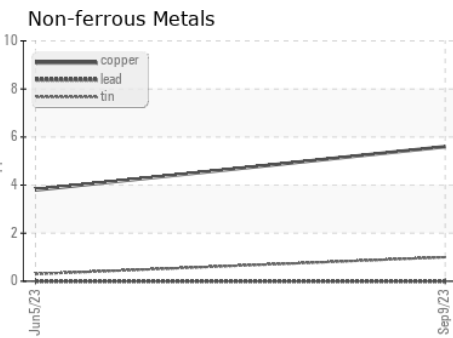
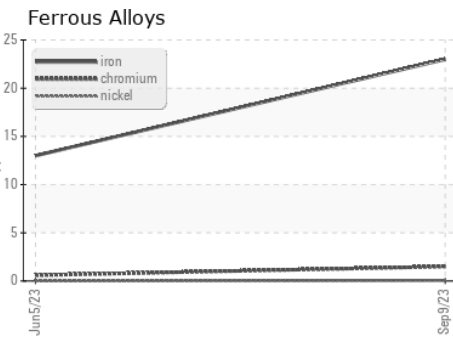
# OIL ANALYSIS REPORT



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	12.00	<b>11.4</b>	11.3

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104087 **Received** : 22 Sep 2023  
**Lab Number** : **05958452** **Diagnosed** : 22 Sep 2023  
**Unique Number** : 10659665 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**Transervice - Shop 1071 - Supermarket-Dayton**  
 60 A Tower Road  
 Dayton, NJ  
 US 08810  
 Contact: Brian Quinn  
 bquinn@transervice.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)

T:  
F: