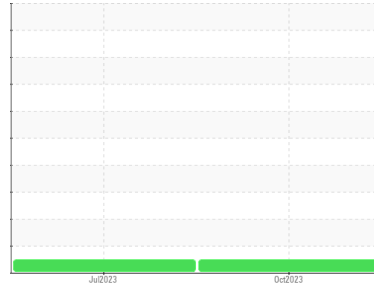


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(AU682W) Supermarket - Tractor**  
Machine Id  
**FREIGHTLINER 107A1843**  
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>PCA0104078</b>	PCA0099867	---
Sample Date	Client Info	<b>28 Oct 2023</b>	05 Jul 2023	---
Machine Age	mls	Client Info	<b>294485</b>	279883
Oil Age	mls	Client Info	<b>14602</b>	17512
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>26</b>	16	---
Chromium	ppm ASTM D5185m >5	<b>1</b>	1	---
Nickel	ppm ASTM D5185m >2	<b>&lt;1</b>	<1	---
Titanium	ppm ASTM D5185m	<b>0</b>	0	---
Silver	ppm ASTM D5185m >3	<b>&lt;1</b>	0	---
Aluminum	ppm ASTM D5185m >30	<b>7</b>	9	---
Lead	ppm ASTM D5185m >30	<b>0</b>	0	---
Copper	ppm ASTM D5185m >150	<b>8</b>	6	---
Tin	ppm ASTM D5185m >5	<b>&lt;1</b>	<1	---
Vanadium	ppm ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>2</b>	7	---
Barium	ppm ASTM D5185m 0	<b>4</b>	2	---
Molybdenum	ppm ASTM D5185m 50	<b>70</b>	84	---
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm ASTM D5185m 950	<b>901</b>	1114	---
Calcium	ppm ASTM D5185m 1050	<b>1109</b>	1366	---
Phosphorus	ppm ASTM D5185m 995	<b>962</b>	1245	---
Zinc	ppm ASTM D5185m 1180	<b>1220</b>	1556	---
Sulfur	ppm ASTM D5185m 2600	<b>2756</b>	4042	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>7</b>	5	---
Sodium	ppm ASTM D5185m	<b>0</b>	2	---
Potassium	ppm ASTM D5185m >20	<b>5</b>	4	---

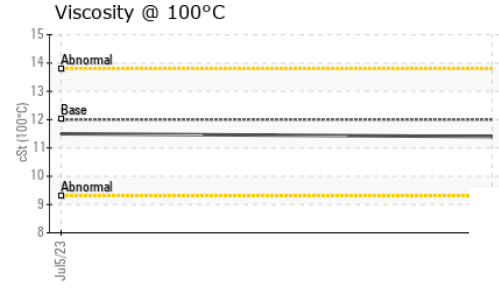
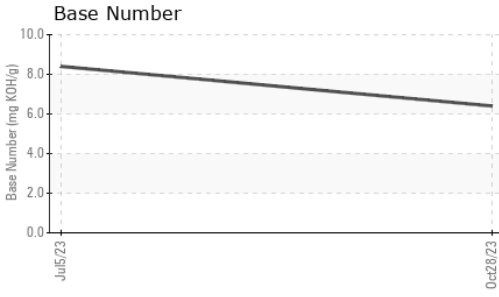
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>1.1</b>	0.7	---
Nitration	Abs/cm *ASTM D7624 >20	<b>9.3</b>	8.6	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>22.1</b>	20.0	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>17.7</b>	15.7	---
Base Number (BN)	mg KOH/g ASTM D2896	<b>6.4</b>	8.4	---

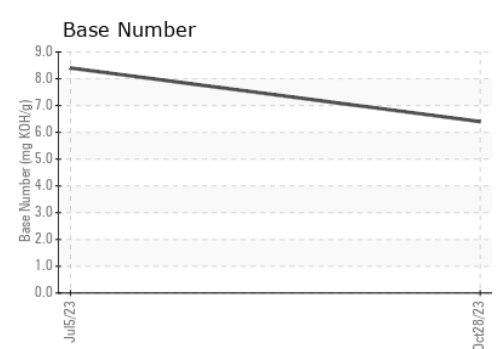
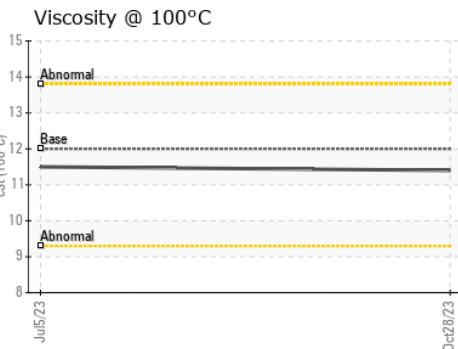
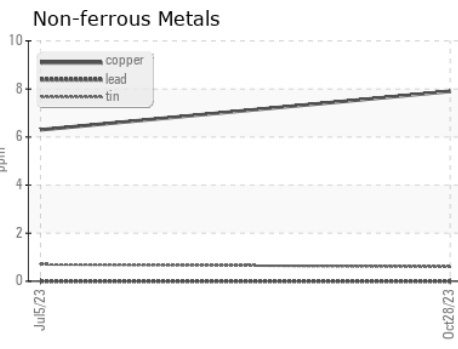
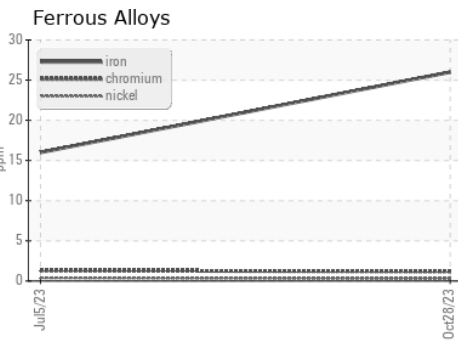
# OIL ANALYSIS REPORT



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>	11.5

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104078 **Received** : 03 Nov 2023  
**Lab Number** : **05997614** **Diagnosed** : 06 Nov 2023  
**Unique Number** : 10725974 **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  
 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)