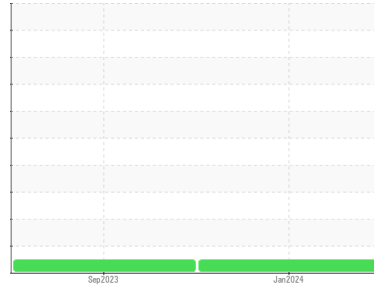


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**


Area  
**Supermarket - Tractor**  
 Machine Id  
**FREIGHTLINER 107A1875**  
 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

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>PCA0111513</b>	PCA0104822	---
Sample Date	Client Info		<b>02 Jan 2024</b>	06 Sep 2023	---
Machine Age	hrs	Client Info	<b>76114</b>	50300	---
Oil Age	hrs	Client Info	<b>25814</b>	26166	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	<b>23</b>	46	---
Chromium	ppm	ASTM D5185m >5	<b>3</b>	4	---
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>26</b>	53	---
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >150	<b>42</b>	108	---
Tin	ppm	ASTM D5185m >5	<b>1</b>	2	---
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>17</b>	8	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>66</b>	60	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m 950	<b>931</b>	929	---
Calcium	ppm	ASTM D5185m 1050	<b>1208</b>	1367	---
Phosphorus	ppm	ASTM D5185m 995	<b>1099</b>	944	---
Zinc	ppm	ASTM D5185m 1180	<b>1376</b>	1231	---
Sulfur	ppm	ASTM D5185m 2600	<b>2993</b>	2785	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>5</b>	5	---
Sodium	ppm	ASTM D5185m	<b>3</b>	3	---
Potassium	ppm	ASTM D5185m >20	<b>57</b>	138	---

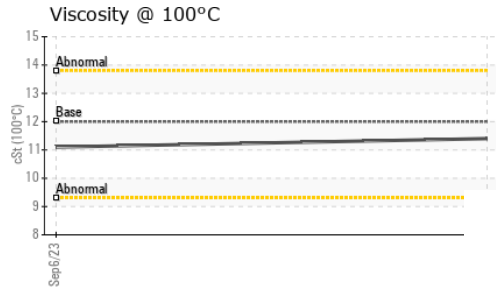
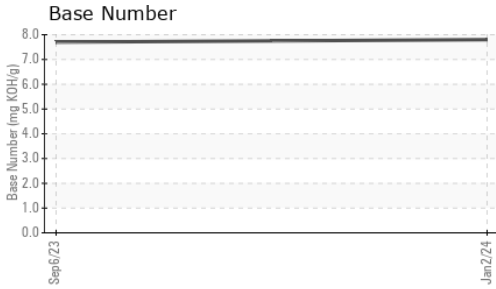
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.4</b>	8.3	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.9</b>	21.1	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.4</b>	17.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.8</b>	7.7	---

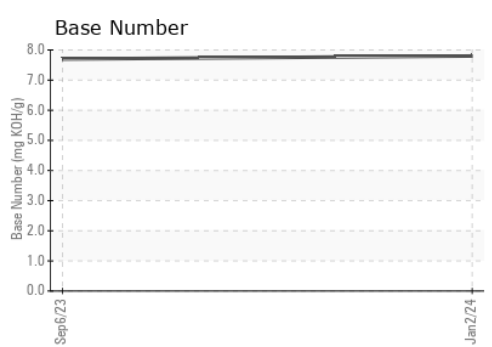
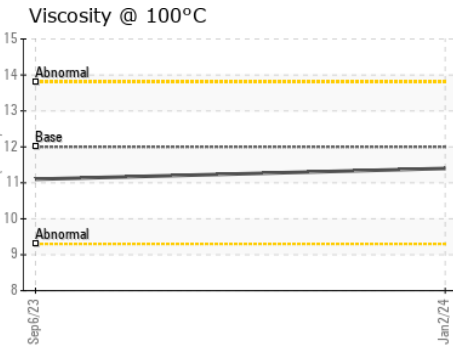
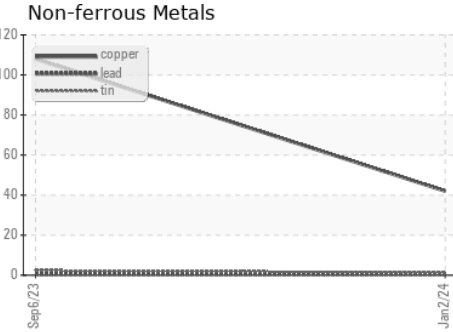
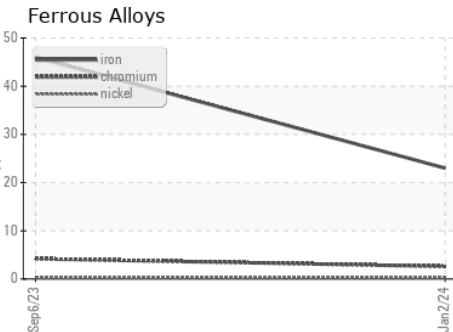
# OIL ANALYSIS REPORT



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>	11.1	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111513 **Recieved** : 08 Jan 2024  
**Lab Number** : **06054700** **Diagnosed** : 09 Jan 2024  
**Unique Number** : 10820649 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**Transervice - Shop 1072 - Supermarket-Elizabeth**  
 505 Division Street  
 Elizabeth, NJ  
 US 07207  
 Contact: Normand Brizak  
 nbrizak@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: