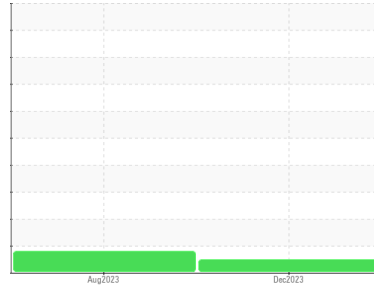


Area  
**(AY417B) Supermarket - Tractor**  
 Machine Id  
**FREIGHTLINER 107A1837**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**



## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.

**Wear**  
 Metal levels are typical for a new component breaking in.

**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>PCA0111514</b>	PCA0104819	---
Sample Date	Client Info		<b>13 Dec 2023</b>	23 Aug 2023	---
Machine Age	mls	Client Info	<b>52326</b>	38531	---
Oil Age	mls	Client Info	<b>13795</b>	15494	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## 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>12</b>	32	---
Chromium	ppm	ASTM D5185m >5	<b>2</b>	3	---
Nickel	ppm	ASTM D5185m >2	<b>0</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>30</b>	58	---
Lead	ppm	ASTM D5185m >30	<b>0</b>	2	---
Copper	ppm	ASTM D5185m >150	<b>32</b>	▲ 270	---
Tin	ppm	ASTM D5185m >5	<b>0</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>13</b>	9	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>59</b>	61	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m 950	<b>866</b>	931	---
Calcium	ppm	ASTM D5185m 1050	<b>1132</b>	1356	---
Phosphorus	ppm	ASTM D5185m 995	<b>1043</b>	964	---
Zinc	ppm	ASTM D5185m 1180	<b>1234</b>	1231	---
Sulfur	ppm	ASTM D5185m 2600	<b>2943</b>	2920	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>4</b>	4	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>66</b>	138	---

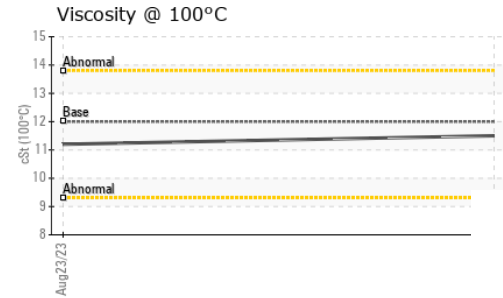
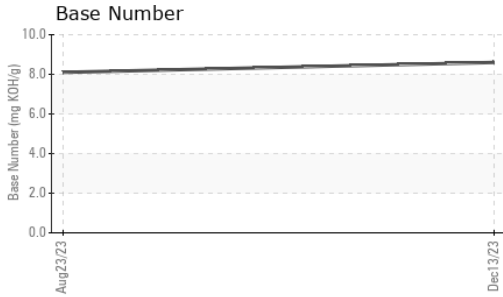
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.6	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.7</b>	8.4	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.5</b>	19.8	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.5</b>	16.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.6</b>	8.1	---

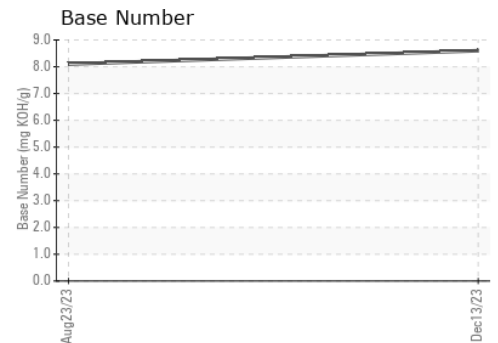
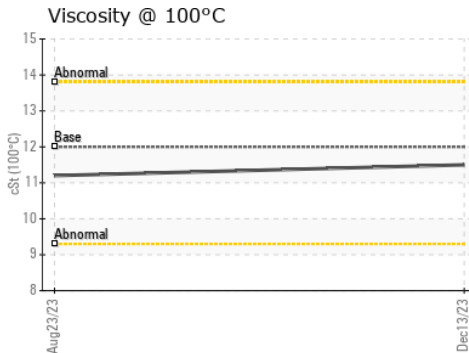
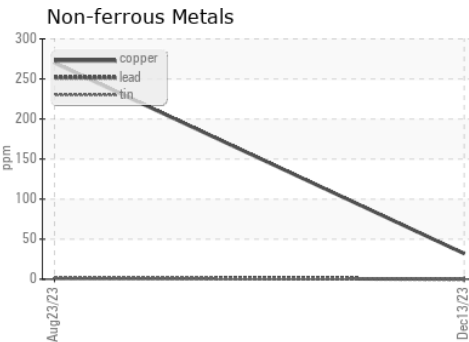
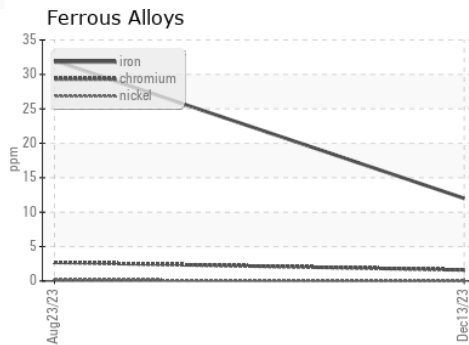
# OIL ANALYSIS REPORT



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>11.5</b>	11.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111514 **Received** : 21 Dec 2023  
**Lab Number** : **06042634** **Diagnosed** : 22 Dec 2023  
**Unique Number** : 10803242 **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: