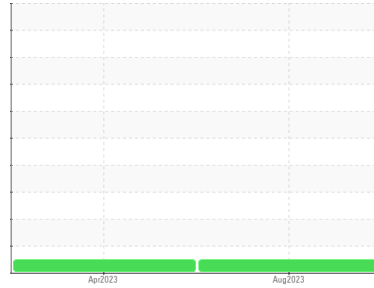


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

 Area  
**(AY406B) Supermarket**  
 Machine Id  
**FREIGHTLINER 107A1866**

 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>PCA0104120</b>	PCA0097051	---
Sample Date	Client Info			<b>15 Aug 2023</b>	24 Apr 2023	---
Machine Age	mls	Client Info		<b>53115</b>	35498	---
Oil Age	mls	Client Info		<b>71617</b>	18479	---
Oil Changed	Client Info			<b>Not Changed</b>	Not 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	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<b>49</b>	29	---
Chromium	ppm	ASTM D5185m	>5	<b>3</b>	2	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>30	<b>28</b>	21	---
Lead	ppm	ASTM D5185m	>30	<b>1</b>	0	---
Copper	ppm	ASTM D5185m	>150	<b>124</b>	280	---
Tin	ppm	ASTM D5185m	>5	<b>2</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

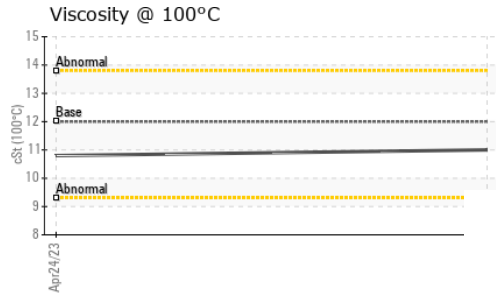
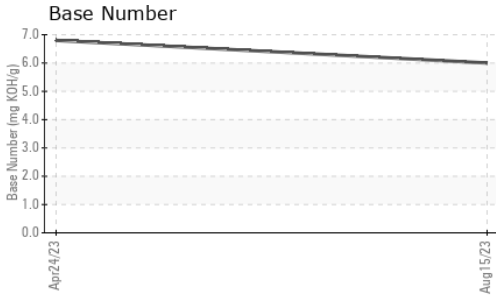
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>10</b>	20	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>63</b>	62	---
Manganese	ppm	ASTM D5185m	0	<b>2</b>	2	---
Magnesium	ppm	ASTM D5185m	950	<b>874</b>	850	---
Calcium	ppm	ASTM D5185m	1050	<b>1359</b>	1314	---
Phosphorus	ppm	ASTM D5185m	995	<b>885</b>	929	---
Zinc	ppm	ASTM D5185m	1180	<b>1122</b>	1156	---
Sulfur	ppm	ASTM D5185m	2600	<b>2357</b>	2876	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>8</b>	5	---
Sodium	ppm	ASTM D5185m		<b>5</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>85</b>	58	---

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>10.3</b>	7.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	18.8	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.7</b>	16.5	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.0</b>	6.8	---

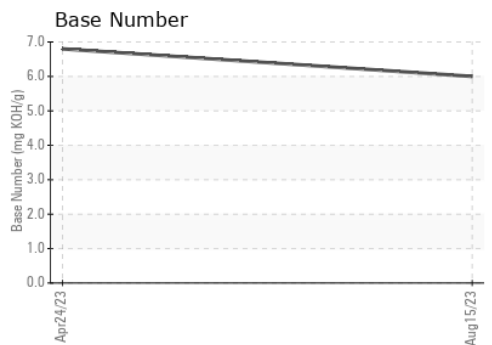
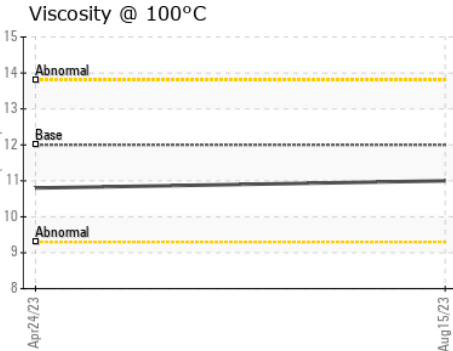
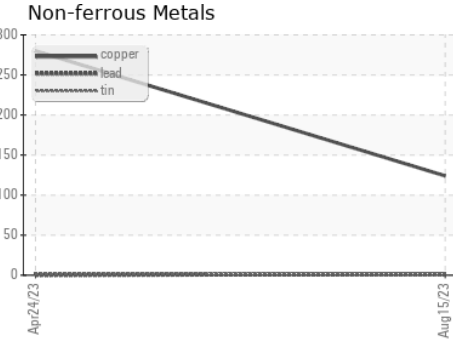
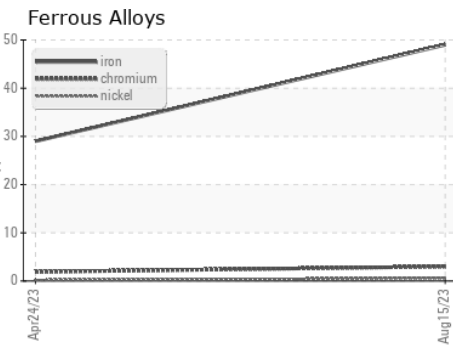
# OIL ANALYSIS REPORT



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	11.0	10.8

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104120 **Received** : 18 Aug 2023  
**Lab Number** : 05927987 **Diagnosed** : 20 Aug 2023  
**Unique Number** : 10607934 **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: