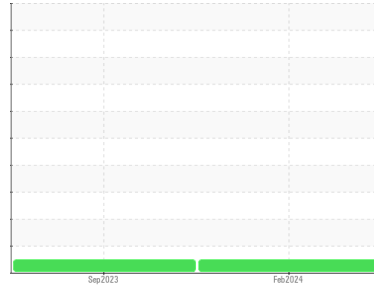


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Supermarket - Tractor**  
Machine Id  
**FREIGHTLINER 107A1894**

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>PCA0116492</b>	PCA0104813	---
Sample Date	Client Info			<b>05 Feb 2024</b>	22 Sep 2023	---
Machine Age	mls	Client Info		<b>55514</b>	39515	---
Oil Age	mls	Client Info		<b>15999</b>	13817	---
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>30</b>	36	---
Chromium	ppm	ASTM D5185m	>5	<b>3</b>	3	---
Nickel	ppm	ASTM D5185m	>2	<b>0</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>45</b>	37	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185m	>150	<b>103</b>	155	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	3	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

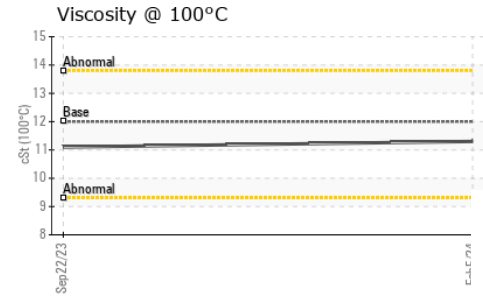
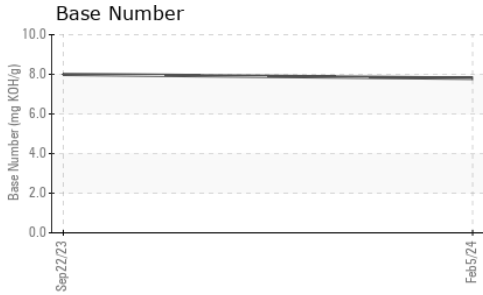
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>8</b>	8	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>59</b>	59	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m	950	<b>846</b>	917	---
Calcium	ppm	ASTM D5185m	1050	<b>1188</b>	1280	---
Phosphorus	ppm	ASTM D5185m	995	<b>949</b>	1022	---
Zinc	ppm	ASTM D5185m	1180	<b>1134</b>	1288	---
Sulfur	ppm	ASTM D5185m	2600	<b>2321</b>	2540	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>4</b>	5	---
Sodium	ppm	ASTM D5185m		<b>4</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>101</b>	92	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	8.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.6</b>	21.2	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.8</b>	18.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.8</b>	8.0	---

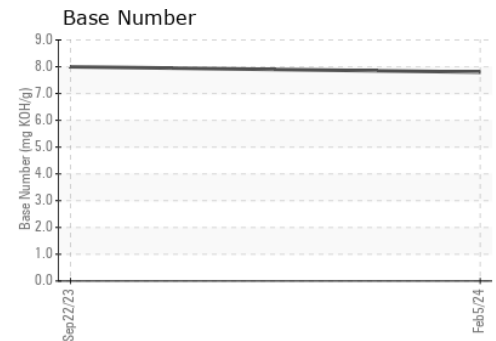
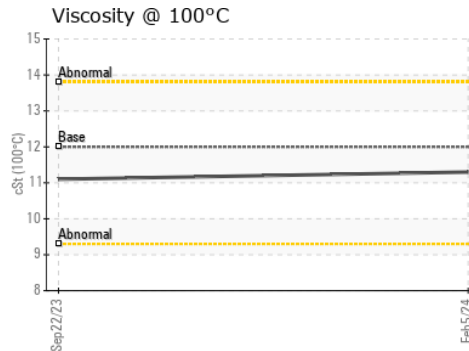
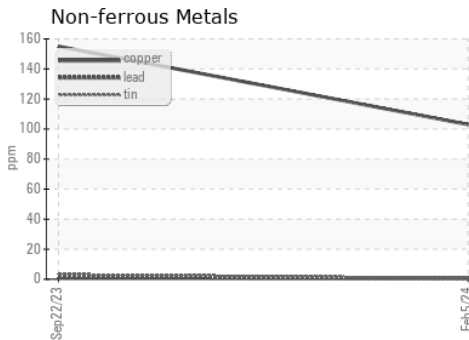
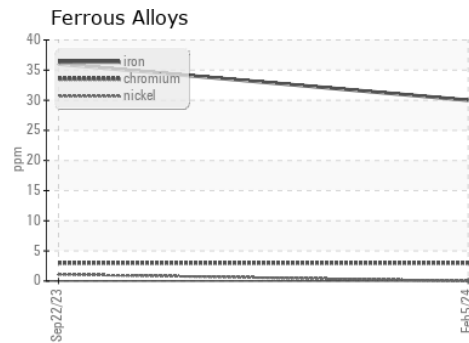
# OIL ANALYSIS REPORT



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>11.3</b>	11.1	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116492      **Received** : 26 Feb 2024  
**Lab Number** : 06099586      **Tested** : 27 Feb 2024  
**Unique Number** : 10897816      **Diagnosed** : 27 Feb 2024 - 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: