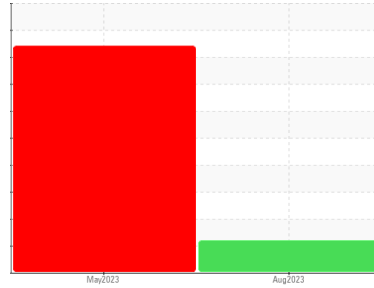


# PROBLEM SUMMARY

Area  
**(AU403U) Supermarket**  
 Machine Id  
**FREIGHTLINER 107A8841**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

Sample Rating Trend

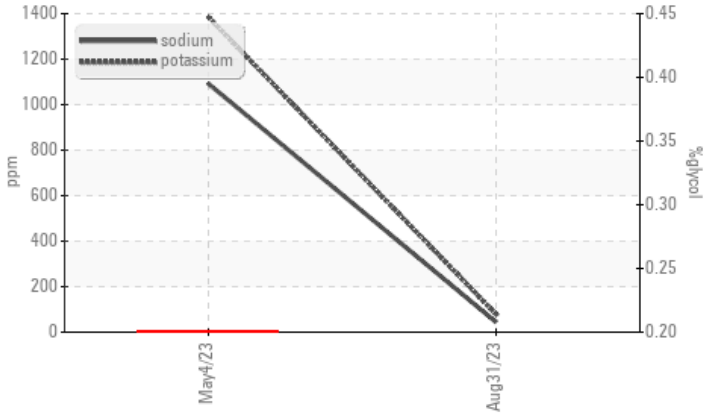


**GLYCOL**



## COMPONENT CONDITION SUMMARY

### ▲ Glycol Contamination



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status	ATTENTION	SEVERE	---			
Potassium	ppm	ASTM D5185m	>20	▲ 79	▲ 1385	---

Customer Id: TSV1071  
 Sample No.: PCA0104110  
 Lab Number: 05946909  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

## HISTORICAL DIAGNOSIS

**04 May 2023 Diag: Wes Davis**

GLYCOL



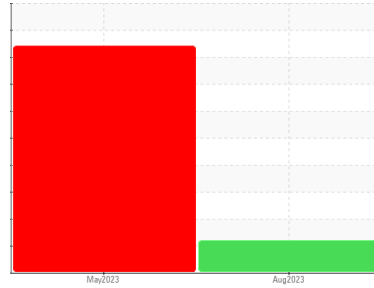
We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend



**GLYCOL**



Area  
**(AU403U) Supermarket**  
 Machine Id  
**FREIGHTLINER 107A8841**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

### DIAGNOSIS

#### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

Sodium and/or potassium levels remain high. Test for glycol is negative.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0104110</b>	PCA0097059	---
Sample Date	Client Info			<b>31 Aug 2023</b>	04 May 2023	---
Machine Age	mls	Client Info		<b>233296</b>	218880	---
Oil Age	mls	Client Info		<b>14416</b>	16299	---
Oil Changed	Client Info			<b>Changed</b>	Not Changd	---
Sample Status				<b>ATTENTION</b>	SEVERE	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>5	<b>&lt;1.0</b>	<1.0	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<b>7</b>	18	---
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	2	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	6	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>150	<b>6</b>	7	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

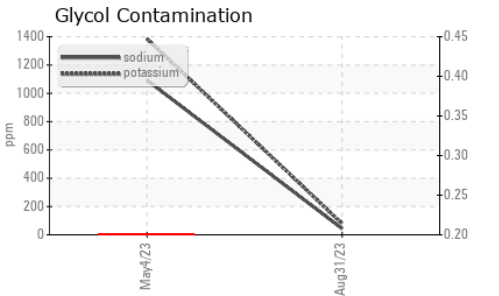
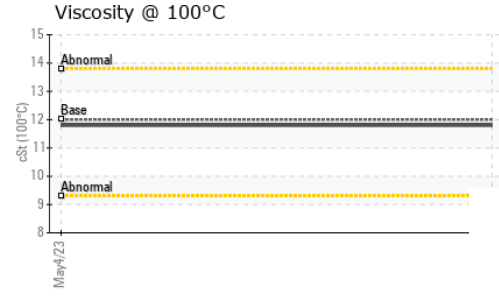
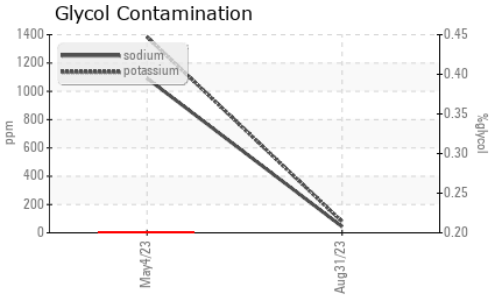
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>23</b>	8	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>22</b>	126	---
Manganese	ppm	ASTM D5185m	0	<b>1</b>	1	---
Magnesium	ppm	ASTM D5185m	950	<b>233</b>	880	---
Calcium	ppm	ASTM D5185m	1050	<b>2095</b>	1052	---
Phosphorus	ppm	ASTM D5185m	995	<b>945</b>	967	---
Zinc	ppm	ASTM D5185m	1180	<b>1165</b>	1192	---
Sulfur	ppm	ASTM D5185m	2600	<b>4503</b>	3548	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>4</b>	7	---
Sodium	ppm	ASTM D5185m		<b>44</b>	▲ 1092	---
Potassium	ppm	ASTM D5185m	>20	▲ <b>79</b>	▲ 1385	---
Glycol	%	*ASTM D2982		<b>NEG</b>	◆ 0.20	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.7</b>	12.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.9</b>	20.2	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.5</b>	14.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.5</b>	11.3	---

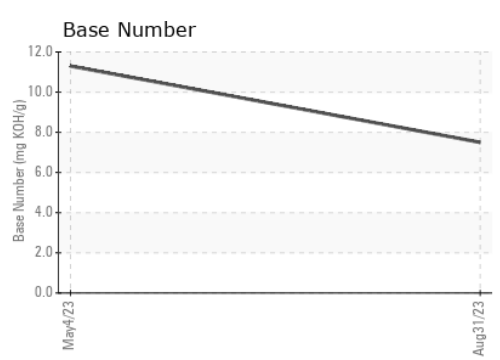
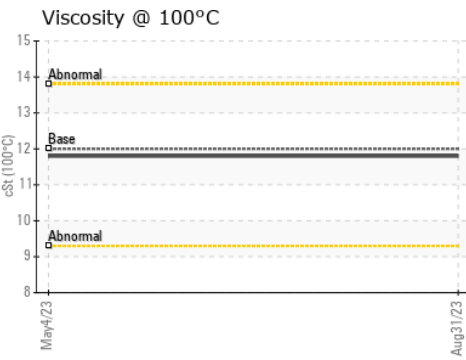
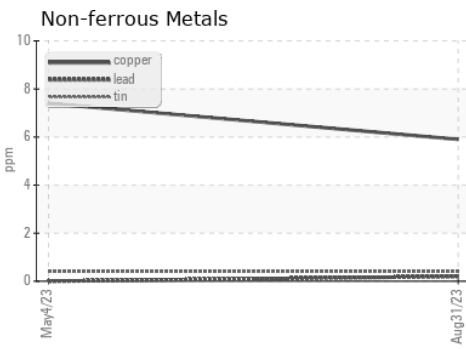
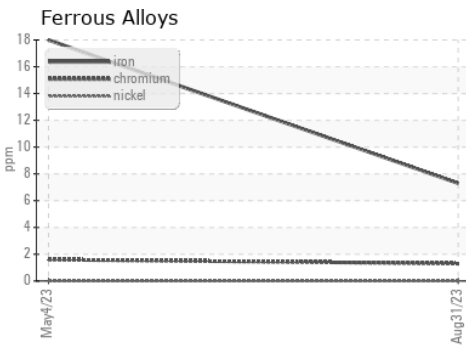
# OIL ANALYSIS REPORT



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	11.8	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104110 **Received** : 11 Sep 2023  
**Lab Number** : 05946909 **Diagnosed** : 13 Sep 2023  
**Unique Number** : 10642868 **Diagnostician** : Jonathan Hester  
**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)