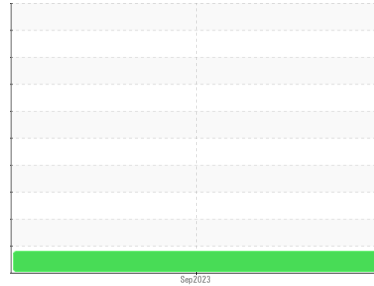


# PROBLEM SUMMARY

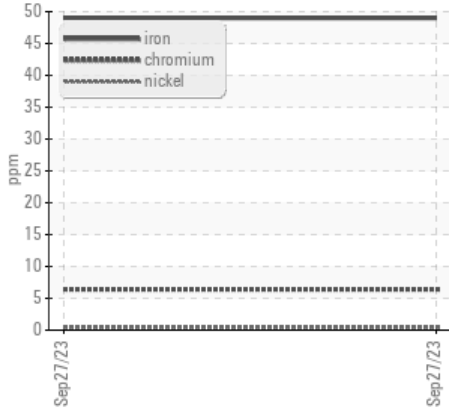
Area  
**(51458Z) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A63400**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (40 QTS)**

Sample Rating Trend

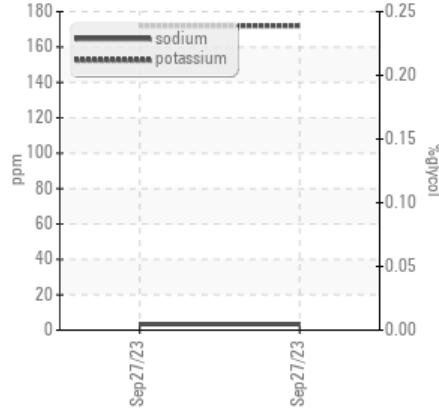


## COMPONENT CONDITION SUMMARY

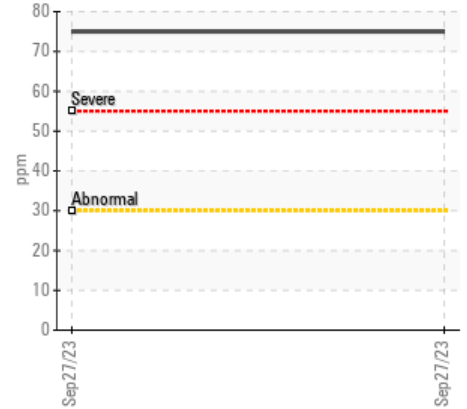
▲ Ferrous Alloys



Glycol Contamination



Aluminum (ppm)



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	---	---
Chromium ppm ASTM D5185m >5	▲ 6	---	---

Customer Id: TSV1363  
 Sample No.: PCA0094340  
 Lab Number: 05978006  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@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

# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area  
**(51458Z) Walgreens - Tractor**  
Machine Id  
**[Walgreens - Tractor] 136A63400**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (40 QTS)**

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

The chromium level is abnormal. All other 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0094340</b>	---	---
Sample Date	Client Info		<b>27 Sep 2023</b>	---	---
Machine Age	mls	Client Info	<b>88133</b>	---	---
Oil Age	mls	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	<b>49</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>▲ 6</b>	---	---
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >30	<b>75</b>	---	---
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m >150	<b>74</b>	---	---
Tin	ppm	ASTM D5185m >5	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>2</b>	---	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m 50	<b>60</b>	---	---
Manganese	ppm	ASTM D5185m 0	<b>2</b>	---	---
Magnesium	ppm	ASTM D5185m 950	<b>926</b>	---	---
Calcium	ppm	ASTM D5185m 1050	<b>1239</b>	---	---
Phosphorus	ppm	ASTM D5185m 995	<b>902</b>	---	---
Zinc	ppm	ASTM D5185m 1180	<b>1182</b>	---	---
Sulfur	ppm	ASTM D5185m 2600	<b>2164</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>6</b>	---	---
Sodium	ppm	ASTM D5185m	<b>3</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>172</b>	---	---

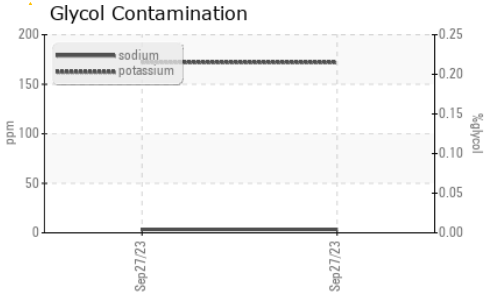
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.9</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.6</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.1</b>	---	---

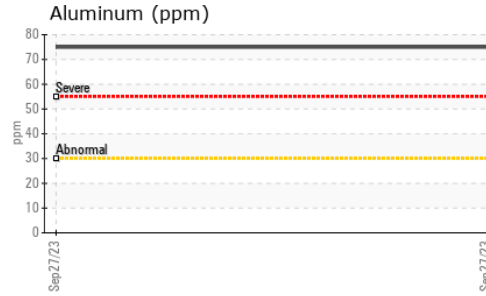
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.1</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.9</b>	---	---

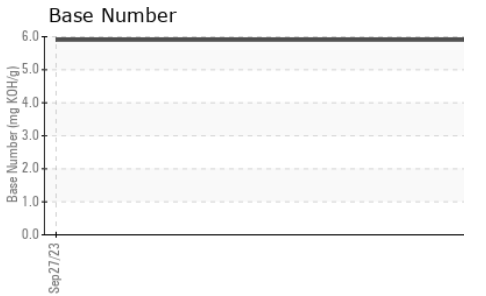
# OIL ANALYSIS REPORT



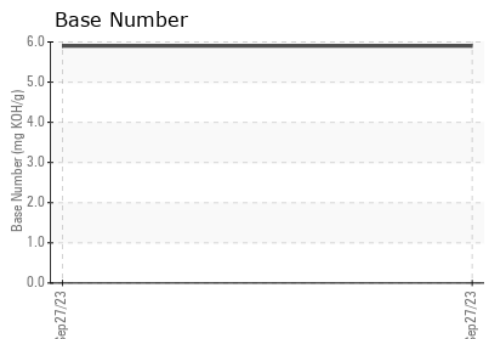
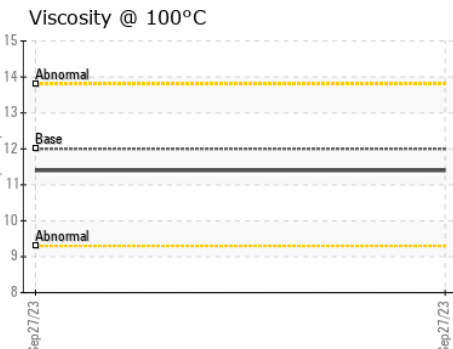
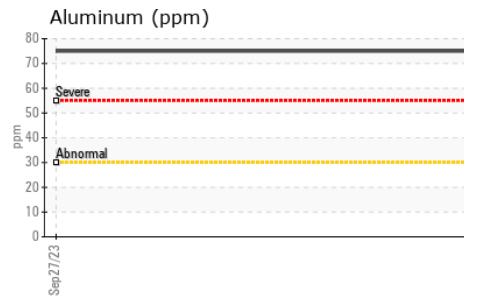
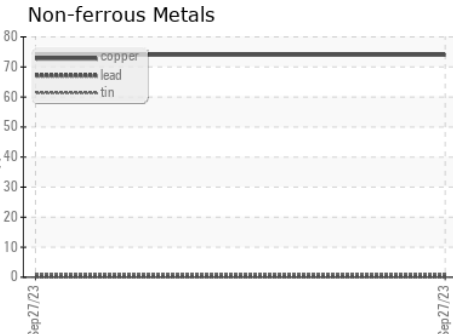
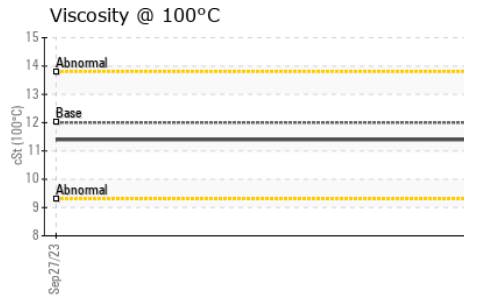
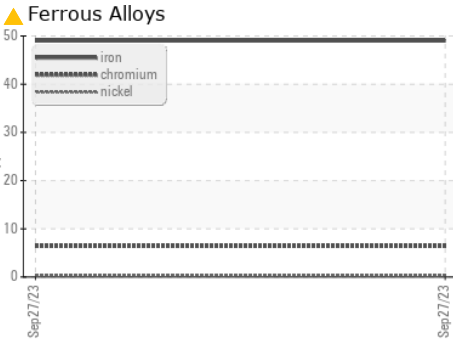
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	11.4	---



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0094340 **Received** : 13 Oct 2023  
**Lab Number** : 05978006 **Diagnosed** : 17 Oct 2023  
**Unique Number** : 10695301 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**Transervice - Shop 1363 - Berkeley-Orlando**  
 2455 Premier Row  
 Orlando, FL  
 US 32809  
 Contact: James Bennett  
 jbennett@transervice.com  
 T: (407)856-8590  
 F: (407)856-2269

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)