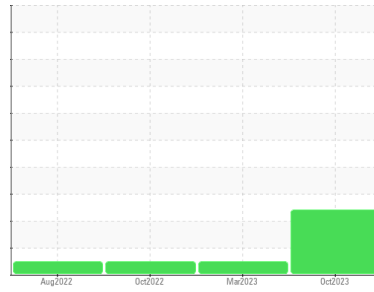




# PROBLEM SUMMARY

Sample Rating Trend



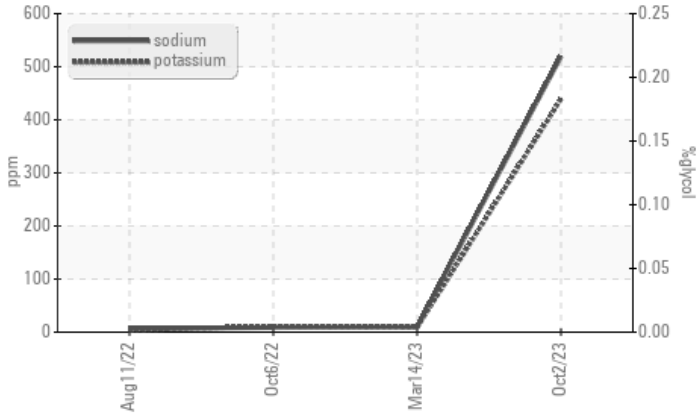
GLYCOL



Area  
**(89674X) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A69095**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Glycol Contamination



## RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	NORMAL
Sodium	ppm	ASTM D5185m	▲ 519	10	8
Potassium	ppm	ASTM D5185m >20	▲ 439	9	11

Customer Id: TSV1373  
 Sample No.: PCA0106171  
 Lab Number: 05975364  
 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.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Glycol Access	---	---	?	We advise that you check for the source of the coolant leak.

## HISTORICAL DIAGNOSIS

14 Mar 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



06 Oct 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



11 Aug 2022 Diag: Wes Davis

NORMAL



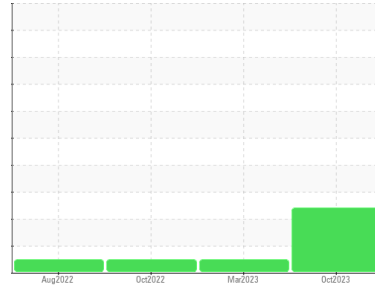
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Area  
**(89674X) Walgreens - Tractor**  
Machine Id  
**[Walgreens - Tractor] 136A69095**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Sodium and/or potassium levels are high.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0106171</b>	PCA0095137	PCA0079943
Sample Date	Client Info	<b>02 Oct 2023</b>	14 Mar 2023	06 Oct 2022
Machine Age	mls	<b>707127</b>	643177	529685
Oil Age	mls	<b>63950</b>	63492	25004
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >80	<b>70</b>	46	42
Chromium	ppm ASTM D5185m >5	<b>4</b>	2	3
Nickel	ppm ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >30	<b>25</b>	21	21
Lead	ppm ASTM D5185m >30	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >150	<b>6</b>	6	6
Tin	ppm ASTM D5185m >5	<b>1</b>	1	1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>5</b>	4	7
Barium	ppm ASTM D5185m 0	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>82</b>	67	68
Manganese	ppm ASTM D5185m 0	<b>1</b>	<1	<1
Magnesium	ppm ASTM D5185m 950	<b>978</b>	876	904
Calcium	ppm ASTM D5185m 1050	<b>1151</b>	1145	1278
Phosphorus	ppm ASTM D5185m 995	<b>985</b>	968	1058
Zinc	ppm ASTM D5185m 1180	<b>1291</b>	1216	1321
Sulfur	ppm ASTM D5185m 2600	<b>2721</b>	2873	3275

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>12</b>	8	7
Sodium	ppm ASTM D5185m	<b>▲ 519</b>	10	8
Potassium	ppm ASTM D5185m >20	<b>▲ 439</b>	9	11
Glycol	% *ASTM D2982	<b>NEG</b>	NEG	NEG

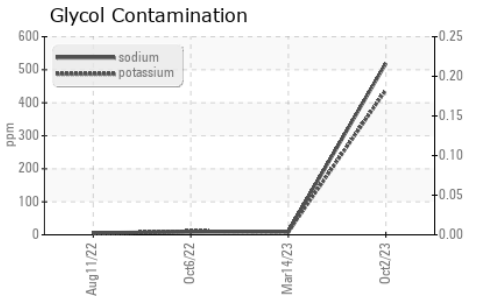
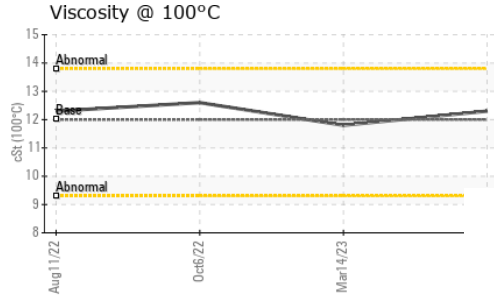
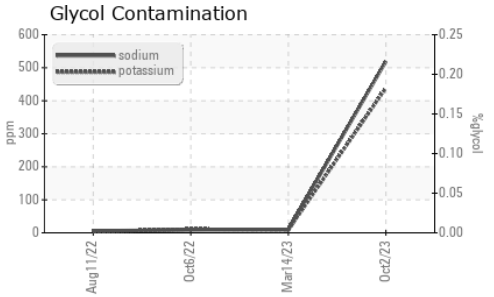
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>1.6</b>	1.5	1.7
Nitration	Abs/cm *ASTM D7624 >20	<b>14.0</b>	11.7	12.7
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>28.0</b>	25.8	28.9

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>23.3</b>	21.6	23.6
Base Number (BN)	mg KOH/g ASTM D2896	<b>4.5</b>	5.1	5.2

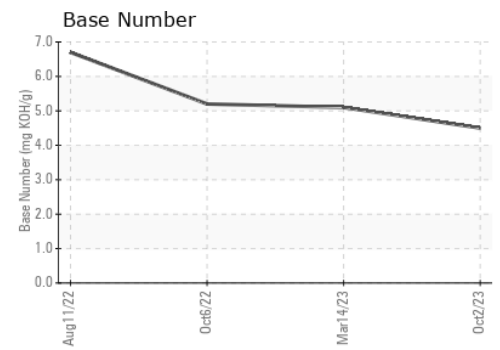
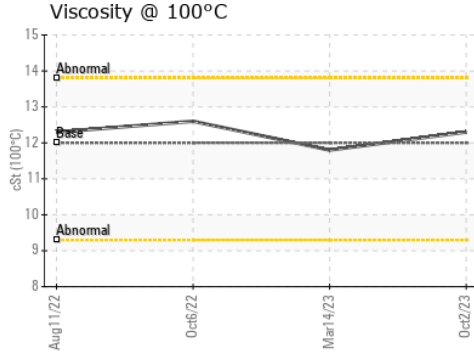
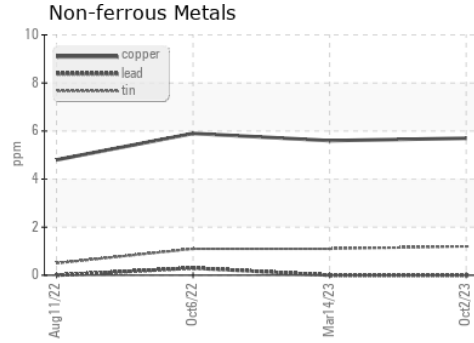
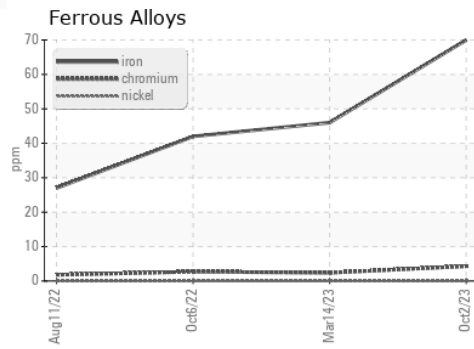
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
<b>White Metal</b>	scalar	*Visual	NONE	NONE	NONE
<b>Yellow Metal</b>	scalar	*Visual	NONE	NONE	NONE
<b>Precipitate</b>	scalar	*Visual	NONE	NONE	NONE
<b>Silt</b>	scalar	*Visual	NONE	NONE	NONE
<b>Debris</b>	scalar	*Visual	NONE	NONE	NONE
<b>Sand/Dirt</b>	scalar	*Visual	NONE	NONE	NONE
<b>Appearance</b>	scalar	*Visual	NORML	NORML	NORML
<b>Odor</b>	scalar	*Visual	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG
<b>Free Water</b>	scalar	*Visual		NEG	NEG

PARAMETER	method	limit/base	current	history1	history2
<b>FLUID PROPERTIES</b>					
<b>Visc @ 100°C</b>	cSt	ASTM D445	12.00	<b>12.3</b>	11.8

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0106171 **Received** : 11 Oct 2023  
**Lab Number** : **05975364** **Diagnosed** : 13 Oct 2023  
**Unique Number** : 10687314 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: Glycol )

**Transervice - Shop 1373 - Berkeley-Anderson/Pendergrass**  
 101 Alliance Parkway  
 Willamston, SC  
 US 29697  
 Contact: Sonny Boucher  
 sboucher@transervice.com  
 T: (864)226-2304  
 F: (864)226-2329

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)