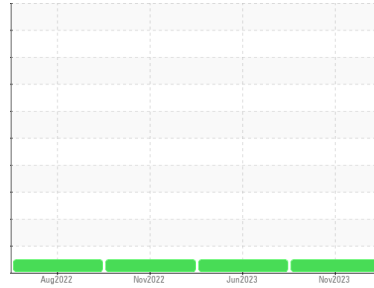


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(89676X) Walgreens - Tractor**  
Machine Id  
**[Walgreens - Tractor] 136A69097**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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>PCA0111786</b>  | PCA0097078    | PCA0087940  |        |
| Sample Date   | Client Info | <b>07 Nov 2023</b> | 08 Jun 2023   | 30 Nov 2022 |        |
| Machine Age   | mls         | Client Info        | <b>690735</b> | 621915      | 552146 |
| Oil Age       | mls         | Client Info        | <b>68820</b>  | 69779       | 66119  |
| Oil Changed   | Client Info | <b>Changed</b>     | Changed       | Changed     |        |
| Sample Status |             | <b>NORMAL</b>      | NORMAL        | NORMAL      |        |

### CONTAMINATION

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

### WEAR METALS

| method   | limit/base           | current      | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron     | ppm ASTM D5185m >80  | <b>46</b>    | 44       | 40       |
| Chromium | ppm ASTM D5185m >5   | <b>3</b>     | 1        | 3        |
| Nickel   | ppm ASTM D5185m >2   | <b>0</b>     | 0        | <1       |
| 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>23</b>    | 22       | 17       |
| Lead     | ppm ASTM D5185m >30  | <b>0</b>     | 0        | <1       |
| Copper   | ppm ASTM D5185m >150 | <b>5</b>     | 5        | 6        |
| Tin      | ppm ASTM D5185m >5   | <b>&lt;1</b> | 0        | 1        |
| Vanadium | ppm ASTM D5185m      | <b>&lt;1</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>2</b>     | 0        | 4        |
| Barium     | ppm ASTM D5185m 0    | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm ASTM D5185m 50   | <b>67</b>    | 68       | 58       |
| Manganese  | ppm ASTM D5185m 0    | <b>&lt;1</b> | 0        | <1       |
| Magnesium  | ppm ASTM D5185m 950  | <b>1066</b>  | 1069     | 862      |
| Calcium    | ppm ASTM D5185m 1050 | <b>1171</b>  | 1265     | 1187     |
| Phosphorus | ppm ASTM D5185m 995  | <b>1082</b>  | 1096     | 930      |
| Zinc       | ppm ASTM D5185m 1180 | <b>1431</b>  | 1414     | 1109     |
| Sulfur     | ppm ASTM D5185m 2600 | <b>2770</b>  | 3200     | 2349     |

### CONTAMINANTS

| method    | limit/base          | current  | history1 | history2 |
|-----------|---------------------|----------|----------|----------|
| Silicon   | ppm ASTM D5185m >20 | <b>9</b> | 6        | 10       |
| Sodium    | ppm ASTM D5185m     | <b>2</b> | 2        | 2        |
| Potassium | ppm ASTM D5185m >20 | <b>5</b> | 2        | <1       |

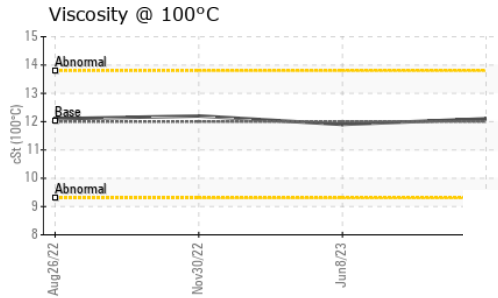
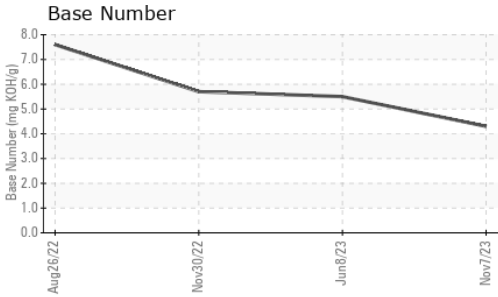
### INFRA-RED

| method    | limit/base               | current     | history1 | history2 |
|-----------|--------------------------|-------------|----------|----------|
| Soot %    | % *ASTM D7844 >3         | <b>1.9</b>  | 1.7      | 2        |
| Nitration | Abs/cm *ASTM D7624 >20   | <b>12.4</b> | 12.7     | 12.9     |
| Sulfation | Abs/.1mm *ASTM D7415 >30 | <b>29.5</b> | 26.0     | 28.6     |

### FLUID DEGRADATION

| method           | limit/base               | current     | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Oxidation        | Abs/.1mm *ASTM D7414 >25 | <b>26.3</b> | 21.4     | 22.4     |
| Base Number (BN) | mg KOH/g ASTM D2896      | <b>4.3</b>  | 5.5      | 5.7      |

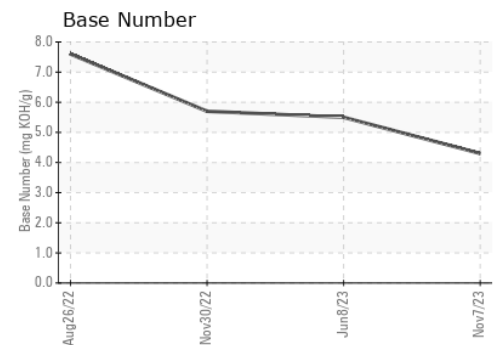
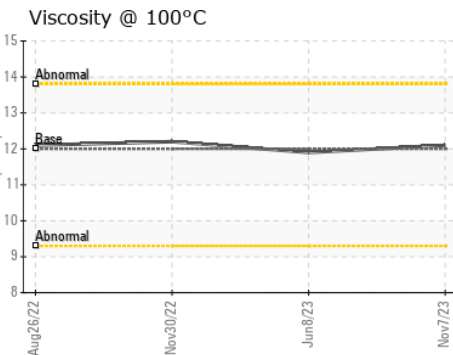
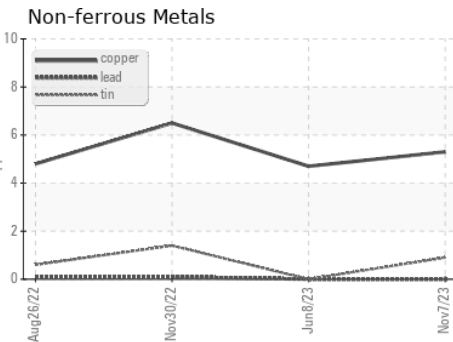
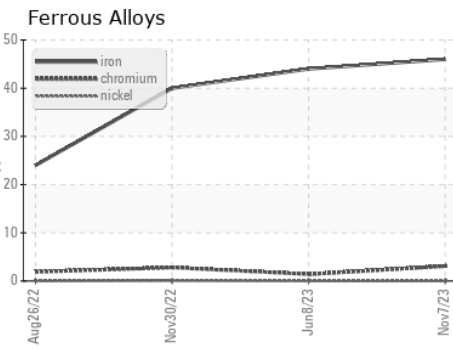
# OIL ANALYSIS REPORT



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

| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |      |
|------------------|--------|------------|---------|-------------|----------|------|
| Visc @ 100°C     | cSt    | ASTM D445  | 12.00   | <b>12.1</b> | 11.9     | 12.2 |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111786 **Received** : 15 Nov 2023  
**Lab Number** : 06008073 **Diagnosed** : 16 Nov 2023  
**Unique Number** : 10741835 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**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)