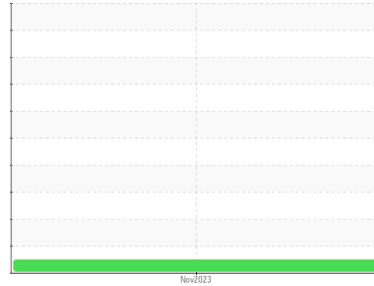


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(65637Z) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A624106**  
 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>PCA0103679</b>  | ---      | ---      |
| Sample Date   | Client Info     | <b>27 Nov 2023</b> | ---      | ---      |
| Machine Age   | mls Client Info | <b>31426</b>       | ---      | ---      |
| Oil Age       | mls Client Info | <b>31426</b>       | ---      | ---      |
| Oil Changed   | Client Info     | <b>Changed</b>     | ---      | ---      |
| Sample Status |                 | <b>NORMAL</b>      | ---      | ---      |

## CONTAMINATION

| method | limit/base     | current        | history1 | history2 |
|--------|----------------|----------------|----------|----------|
| Fuel   | WC Method >5   | <b>&lt;1.0</b> | ---      | ---      |
| Water  | WC Method >0.2 | <b>NEG</b>     | ---      | ---      |
| Glycol | WC Method      | <b>NEG</b>     | ---      | ---      |

## WEAR METALS

| method   | limit/base           | current      | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron     | ppm ASTM D5185m >80  | <b>25</b>    | ---      | ---      |
| Chromium | ppm ASTM D5185m >5   | <b>&lt;1</b> | ---      | ---      |
| Nickel   | ppm ASTM D5185m >2   | <b>0</b>     | ---      | ---      |
| Titanium | ppm ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Silver   | ppm ASTM D5185m >3   | <b>0</b>     | ---      | ---      |
| Aluminum | ppm ASTM D5185m >30  | <b>2</b>     | ---      | ---      |
| Lead     | ppm ASTM D5185m >30  | <b>5</b>     | ---      | ---      |
| Copper   | ppm ASTM D5185m >150 | <b>3</b>     | ---      | ---      |
| Tin      | ppm ASTM D5185m >5   | <b>0</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>241</b>   | ---      | ---      |
| Barium     | ppm ASTM D5185m 0    | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm ASTM D5185m 50   | <b>86</b>    | ---      | ---      |
| Manganese  | ppm ASTM D5185m 0    | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm ASTM D5185m 950  | <b>416</b>   | ---      | ---      |
| Calcium    | ppm ASTM D5185m 1050 | <b>1529</b>  | ---      | ---      |
| Phosphorus | ppm ASTM D5185m 995  | <b>1042</b>  | ---      | ---      |
| Zinc       | ppm ASTM D5185m 1180 | <b>1293</b>  | ---      | ---      |
| Sulfur     | ppm ASTM D5185m 2600 | <b>3044</b>  | ---      | ---      |

## CONTAMINANTS

| method    | limit/base          | current  | history1 | history2 |
|-----------|---------------------|----------|----------|----------|
| Silicon   | ppm ASTM D5185m >20 | <b>4</b> | ---      | ---      |
| Sodium    | ppm ASTM D5185m     | <b>3</b> | ---      | ---      |
| Potassium | ppm ASTM D5185m >20 | <b>0</b> | ---      | ---      |

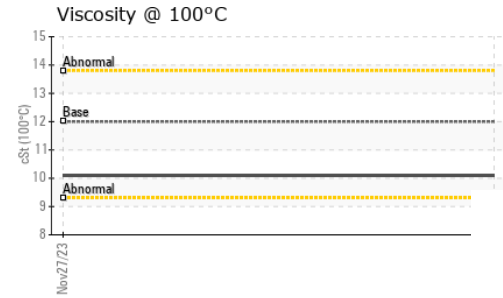
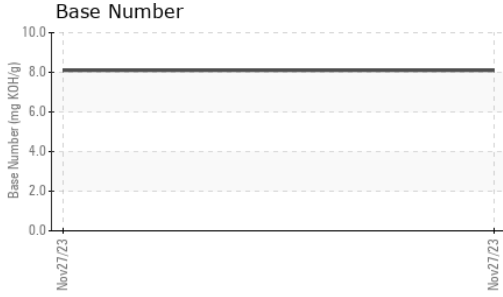
## INFRA-RED

| method    | limit/base               | current     | history1 | history2 |
|-----------|--------------------------|-------------|----------|----------|
| Soot %    | % *ASTM D7844 >3         | <b>0.6</b>  | ---      | ---      |
| Nitration | Abs/cm *ASTM D7624 >20   | <b>9.1</b>  | ---      | ---      |
| Sulfation | Abs/.1mm *ASTM D7415 >30 | <b>22.7</b> | ---      | ---      |

## FLUID DEGRADATION

| method           | limit/base               | current     | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Oxidation        | Abs/.1mm *ASTM D7414 >25 | <b>22.5</b> | ---      | ---      |
| Base Number (BN) | mg KOH/g ASTM D2896      | <b>8.1</b>  | ---      | ---      |

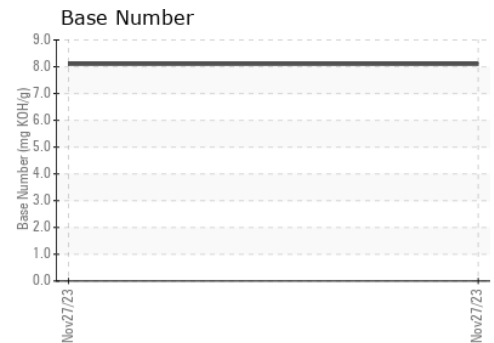
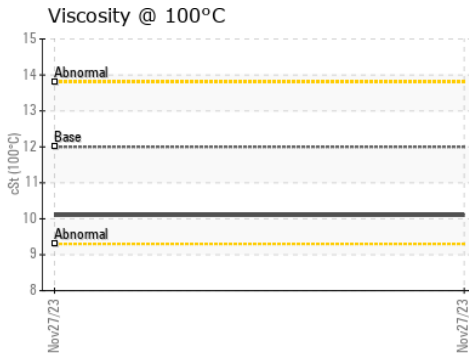
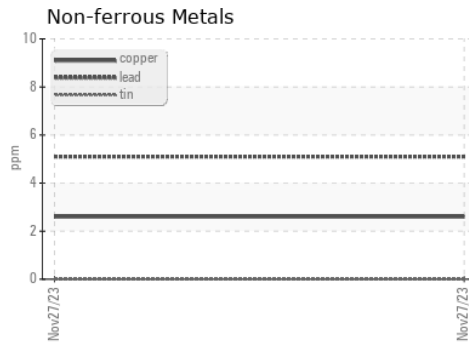
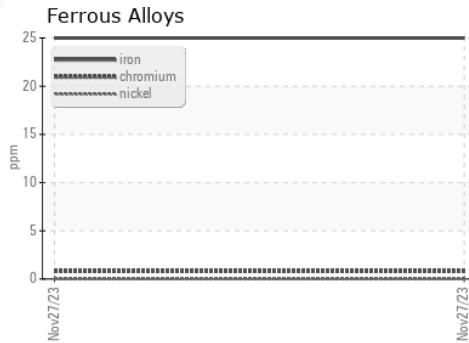
# OIL ANALYSIS REPORT



| 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   | 10.1     | ---      |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103679 **Received** : 07 Dec 2023  
**Lab Number** : **06027415** **Diagnosed** : 11 Dec 2023  
**Unique Number** : 10777206 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET

**Transervice - Shop 1365 - Berkeley-Nazareth**  
 6813 Chrisphalt Drive  
 Bath Borough, PA  
 US 18014  
 Contact: Stephen Mackes  
 smackes@transervice.com  
 T: (610)837-8103  
 F: (610)837-8105

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)