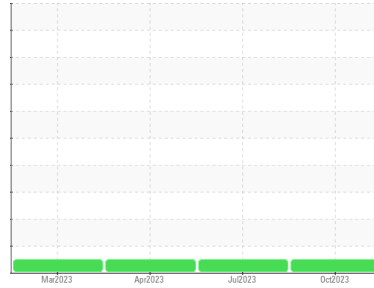


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Area  
**(97195X) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A62106**  
 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>PCA0103765</b>  | PCA0100185  | PCA0094677  |
| Sample Date        | Client Info |             |            | <b>25 Oct 2023</b> | 26 Jul 2023 | 12 Apr 2023 |
| Machine Age        | mls         | Client Info |            | <b>588781</b>      | 559236      | 552398      |
| Oil Age            | mls         | Client Info |            | <b>36383</b>       | 6838        | 58661       |
| Oil Changed        | Client Info |             |            | <b>Not Chngd</b>   | Not Chngd   | 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>27</b>    | 16       | 25       |
| Chromium    | ppm | ASTM D5185m | >5         | <b>1</b>     | <1       | 2        |
| Nickel      | ppm | ASTM D5185m | >2         | <b>0</b>     | 0        | <1       |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | <1       |
| Silver      | ppm | ASTM D5185m | >3         | <b>0</b>     | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >30        | <b>6</b>     | 3        | 11       |
| Lead        | ppm | ASTM D5185m | >30        | <b>0</b>     | 0        | 0        |
| Copper      | ppm | ASTM D5185m | >150       | <b>3</b>     | <1       | 3        |
| Tin         | ppm | ASTM D5185m | >5         | <b>&lt;1</b> | 0        | <1       |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |

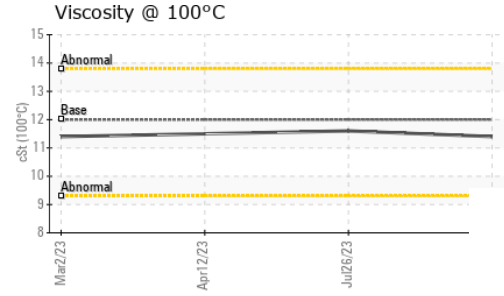
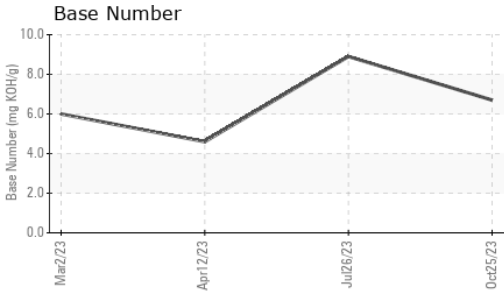
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 2          | <b>1</b>     | 5        | 0        |
| Barium     | ppm | ASTM D5185m | 0          | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m | 50         | <b>59</b>    | 57       | 61       |
| Manganese  | ppm | ASTM D5185m | 0          | <b>&lt;1</b> | <1       | <1       |
| Magnesium  | ppm | ASTM D5185m | 950        | <b>948</b>   | 949      | 947      |
| Calcium    | ppm | ASTM D5185m | 1050       | <b>1110</b>  | 1057     | 1074     |
| Phosphorus | ppm | ASTM D5185m | 995        | <b>1122</b>  | 1023     | 989      |
| Zinc       | ppm | ASTM D5185m | 1180       | <b>1223</b>  | 1247     | 1238     |
| Sulfur     | ppm | ASTM D5185m | 2600       | <b>2733</b>  | 3624     | 2498     |

| CONTAMINANTS |     | method      | limit/base | current  | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >20        | <b>5</b> | 3        | 5        |
| Sodium       | ppm | ASTM D5185m |            | <b>3</b> | <1       | 2        |
| Potassium    | ppm | ASTM D5185m | >20        | <b>2</b> | 0        | 2        |

| INFRA-RED |          | method      | limit/base | current     | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot %    | %        | *ASTM D7844 | >3         | <b>0.6</b>  | 0.2      | 0.7      |
| Nitration | Abs/cm   | *ASTM D7624 | >20        | <b>9.1</b>  | 6.2      | 9.4      |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30        | <b>21.1</b> | 18.3     | 21.3     |

| FLUID DEGRADATION |          | method      | limit/base | current     | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation         | Abs/.1mm | *ASTM D7414 | >25        | <b>17.6</b> | 14.1     | 19.2     |
| Base Number (BN)  | mg KOH/g | ASTM D2896  |            | <b>6.7</b>  | 8.9      | 4.6      |

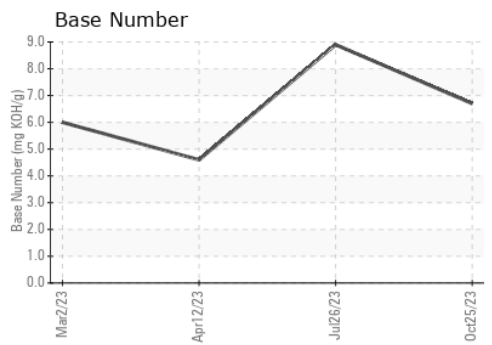
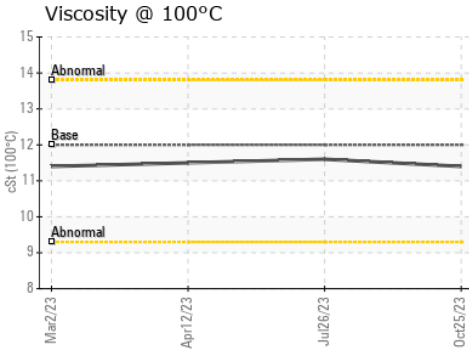
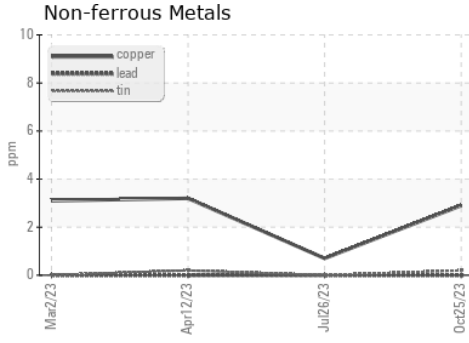
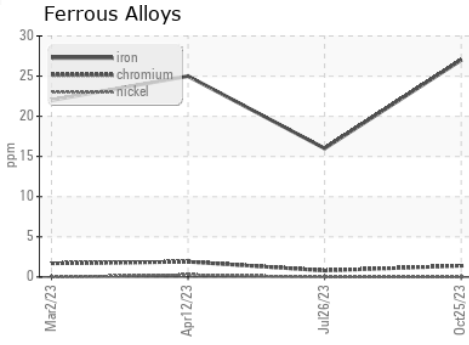
# OIL ANALYSIS REPORT



| 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>11.4</b> | 11.6     | 11.5 |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103765  
**Lab Number** : 05994087  
**Unique Number** : 10722447  
**Test Package** : FLEET

**Transervice - Shop 1364 - Berkeley-Mt. Vernon**  
 5100 Lake Terrace NE  
 Mt. Vernon, IL  
 US 62864  
 Contact: Erien White  
 ewhite@transervice.com  
 T: (618)244-8726  
 F: (618)244-8791

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)