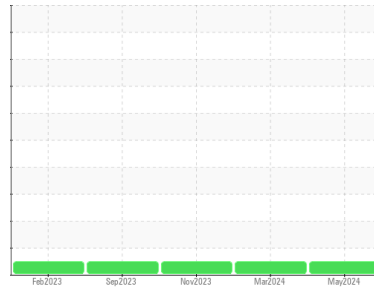


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(TEMP) Walgreens - Yard Horse**  
 Machine Id  
**[Walgreens - Yard Horse] 136A82252**  
 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>PCA0120818</b>  | PCA0120865  | PCA0103483  |
| Sample Date        | Client Info |             |            | <b>17 May 2024</b> | 08 Mar 2024 | 30 Nov 2023 |
| Machine Age        | hrs         | Client Info |            | <b>4370</b>        | 3620        | 2632        |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 0           | 0           |
| 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     |
| Water         | WC Method | >0.2   |            | <b>NEG</b>     | NEG      | NEG      |
| Glycol        | WC Method |        |            | <b>NEG</b>     | NEG      | NEG      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >100       | <b>39</b>    | 38       | 28       |
| Chromium    | ppm | ASTM D5185m | >20        | <b>2</b>     | 2        | 1        |
| Nickel      | ppm | ASTM D5185m | >4         | <b>&lt;1</b> | <1       | 0        |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | 0        |
| Silver      | ppm | ASTM D5185m | >3         | <b>0</b>     | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >20        | <b>2</b>     | 2        | 3        |
| Lead        | ppm | ASTM D5185m | >40        | <b>&lt;1</b> | 0        | 0        |
| Copper      | ppm | ASTM D5185m | >330       | <b>2</b>     | 1        | 2        |
| Tin         | ppm | ASTM D5185m | >15        | <b>&lt;1</b> | <1       | 0        |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | <1       | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |

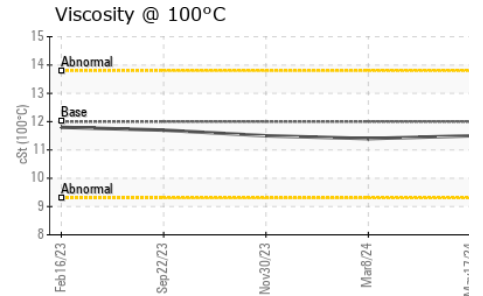
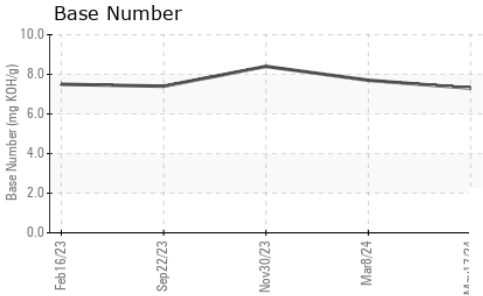
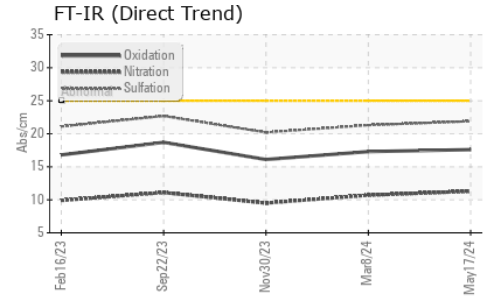
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 2          | <b>0</b>     | 0        | <1       |
| Barium     | ppm | ASTM D5185m | 0          | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m | 50         | <b>61</b>    | 61       | 58       |
| Manganese  | ppm | ASTM D5185m | 0          | <b>&lt;1</b> | <1       | <1       |
| Magnesium  | ppm | ASTM D5185m | 950        | <b>937</b>   | 996      | 957      |
| Calcium    | ppm | ASTM D5185m | 1050       | <b>1014</b>  | 1124     | 1017     |
| Phosphorus | ppm | ASTM D5185m | 995        | <b>1079</b>  | 1192     | 1072     |
| Zinc       | ppm | ASTM D5185m | 1180       | <b>1265</b>  | 1346     | 1305     |
| Sulfur     | ppm | ASTM D5185m | 2600       | <b>3229</b>  | 3367     | 3159     |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>3</b>     | 4        | 4        |
| Sodium       | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | 3        |
| Potassium    | ppm | ASTM D5185m | >20        | <b>4</b>     | 2        | 2        |

| INFRA-RED |          | method      | limit/base | current     | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot %    | %        | *ASTM D7844 | >3         | <b>1.6</b>  | 1.5      | 1.2      |
| Nitration | Abs/cm   | *ASTM D7624 | >20        | <b>11.3</b> | 10.7     | 9.5      |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30        | <b>21.9</b> | 21.3     | 20.2     |

| FLUID DEGRADATION |          | method      | limit/base | current     | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation         | Abs/.1mm | *ASTM D7414 | >25        | <b>17.6</b> | 17.3     | 16.1     |
| Base Number (BN)  | mg KOH/g | ASTM D2896  |            | <b>7.3</b>  | 7.7      | 8.4      |

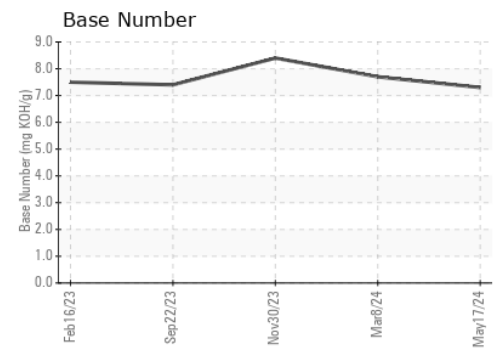
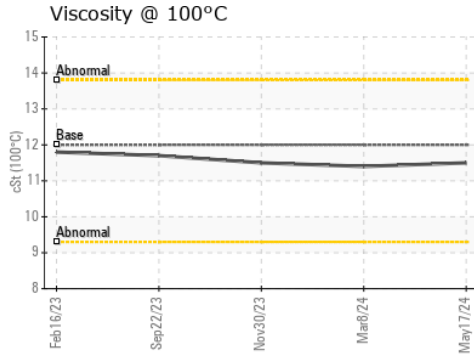
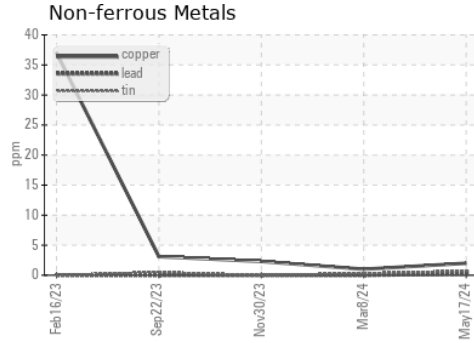
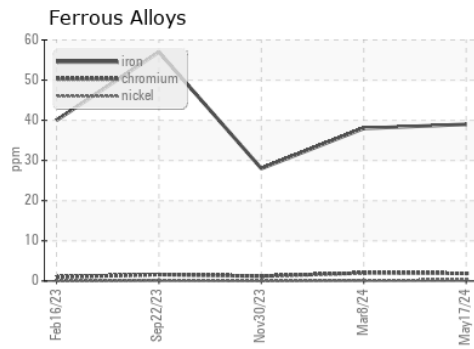
# OIL ANALYSIS REPORT



| PARAMETER        | 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   | 11.5     | 11.4     |

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0120818      **Received** : 03 Jun 2024  
**Lab Number** : 06197439      **Tested** : 04 Jun 2024  
**Unique Number** : 11059562      **Diagnosed** : 04 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**Transervice - Shop 1369 - Berkeley-Waxahachie**  
 710 Ovilla Road  
 Waxahachie, TX  
 US 75167

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)