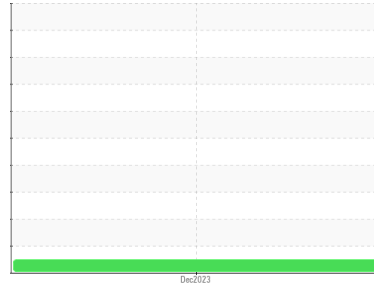


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(N/A) Preferred Service-Yard Horse**  
Machine Id  
**[Preferred Service-Yard Horse] 192A03-9085**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- 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>PCA0115813</b>  | ---      | ---      |
| Sample Date   | Client Info     | <b>31 Dec 2023</b> | ---      | ---      |
| Machine Age   | hrs Client Info | <b>25239</b>       | ---      | ---      |
| Oil Age       | hrs Client Info | <b>942</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 >100 | <b>3</b>     | ---      | ---      |
| Chromium | ppm ASTM D5185m >20  | <b>0</b>     | ---      | ---      |
| Nickel   | ppm ASTM D5185m >4   | <b>0</b>     | ---      | ---      |
| Titanium | ppm ASTM D5185m      | <b>&lt;1</b> | ---      | ---      |
| Silver   | ppm ASTM D5185m >3   | <b>0</b>     | ---      | ---      |
| Aluminum | ppm ASTM D5185m >20  | <b>&lt;1</b> | ---      | ---      |
| Lead     | ppm ASTM D5185m >40  | <b>0</b>     | ---      | ---      |
| Copper   | ppm ASTM D5185m >330 | <b>0</b>     | ---      | ---      |
| Tin      | ppm ASTM D5185m >15  | <b>&lt;1</b> | ---      | ---      |
| Vanadium | ppm ASTM D5185m      | <b>&lt;1</b> | ---      | ---      |
| Cadmium  | ppm ASTM D5185m      | <b>0</b>     | ---      | ---      |

## ADDITIVES

| method     | limit/base           | current     | history1 | history2 |
|------------|----------------------|-------------|----------|----------|
| Boron      | ppm ASTM D5185m 2    | <b>2</b>    | ---      | ---      |
| Barium     | ppm ASTM D5185m 0    | <b>0</b>    | ---      | ---      |
| Molybdenum | ppm ASTM D5185m 50   | <b>60</b>   | ---      | ---      |
| Manganese  | ppm ASTM D5185m 0    | <b>0</b>    | ---      | ---      |
| Magnesium  | ppm ASTM D5185m 950  | <b>1016</b> | ---      | ---      |
| Calcium    | ppm ASTM D5185m 1050 | <b>1039</b> | ---      | ---      |
| Phosphorus | ppm ASTM D5185m 995  | <b>1095</b> | ---      | ---      |
| Zinc       | ppm ASTM D5185m 1180 | <b>1299</b> | ---      | ---      |
| Sulfur     | ppm ASTM D5185m 2600 | <b>3372</b> | ---      | ---      |

## CONTAMINANTS

| method    | limit/base          | current      | history1 | history2 |
|-----------|---------------------|--------------|----------|----------|
| Silicon   | ppm ASTM D5185m >25 | <b>4</b>     | ---      | ---      |
| Sodium    | ppm ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Potassium | ppm ASTM D5185m >20 | <b>0</b>     | ---      | ---      |

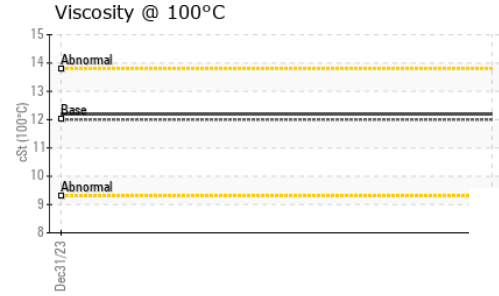
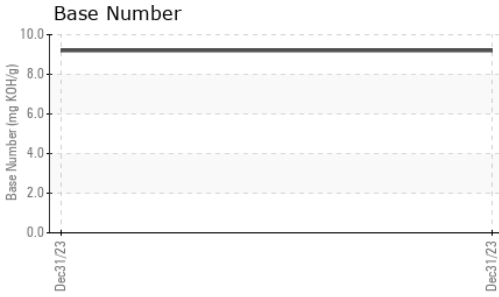
## INFRA-RED

| method    | limit/base               | current     | history1 | history2 |
|-----------|--------------------------|-------------|----------|----------|
| Soot %    | % *ASTM D7844 >3         | <b>0.1</b>  | ---      | ---      |
| Nitration | Abs/cm *ASTM D7624 >20   | <b>4.8</b>  | ---      | ---      |
| Sulfation | Abs/.1mm *ASTM D7415 >30 | <b>17.5</b> | ---      | ---      |

## FLUID DEGRADATION

| method           | limit/base               | current     | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Oxidation        | Abs/.1mm *ASTM D7414 >25 | <b>13.6</b> | ---      | ---      |
| Base Number (BN) | mg KOH/g ASTM D2896      | <b>9.2</b>  | ---      | ---      |

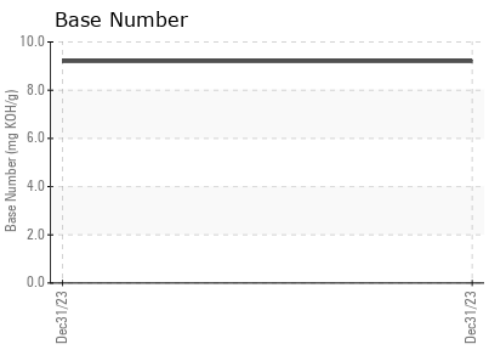
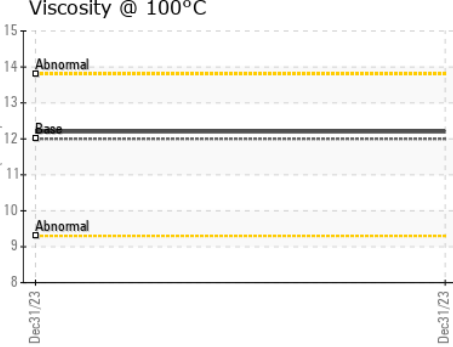
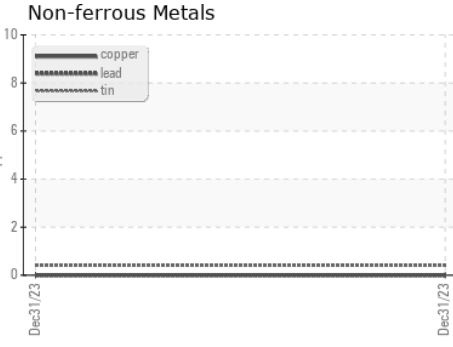
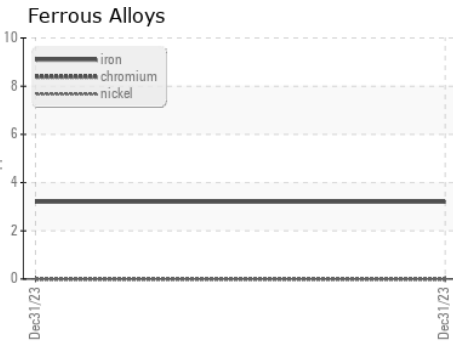
# OIL ANALYSIS REPORT



| 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   | <b>12.2</b> | ---      | --- |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0115813 **Received** : 23 Jan 2024  
**Lab Number** : **06068270** **Diagnosed** : 24 Jan 2024  
**Unique Number** : 10844947 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**Transervice - Shop 1920 - Preferred Service**  
 1955 W. North Avenue, Bldg K  
 Melrose Park, IL  
 US 60160  
 Contact: Tom Lindeman  
 tlindemann@transervice.com  
 T: (630)376-8946  
 F:

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)