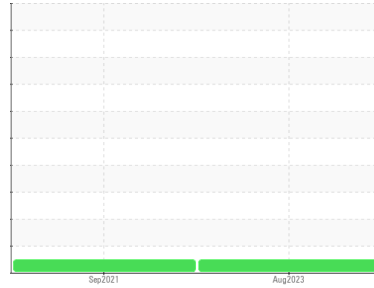


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**FLEET**  
Machine Id  
**34129**  
Component  
**Auxiliary Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (7 QTS)**

### 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>PCA0102763</b>  | PCA0057205  | ---      |
| Sample Date   | Client Info | <b>16 Aug 2023</b> | 07 Sep 2021 | ---      |
| Machine Age   | hrs         | Client Info        | <b>8804</b> | 0        |
| Oil Age       | hrs         | Client Info        | <b>0</b>    | 0        |
| Oil Changed   | Client Info | <b>N/A</b>         | Changed     | ---      |
| Sample Status |             | <b>NORMAL</b>      | NORMAL      | ---      |

### CONTAMINATION

| method | limit/base     | current        | history1 | history2 |
|--------|----------------|----------------|----------|----------|
| Fuel   | WC Method >4.0 | <b>&lt;1.0</b> | <1.0     | ---      |
| Glycol | WC Method      | <b>NEG</b>     | NEG      | ---      |

### WEAR METALS

| method   | limit/base           | current      | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron     | ppm ASTM D5185m >100 | <b>14</b>    | 9        | ---      |
| Chromium | ppm ASTM D5185m >20  | <b>&lt;1</b> | <1       | ---      |
| Nickel   | ppm ASTM D5185m >2   | <b>&lt;1</b> | 0        | ---      |
| Titanium | ppm ASTM D5185m >2   | <b>&lt;1</b> | 0        | ---      |
| Silver   | ppm ASTM D5185m >2   | <b>&lt;1</b> | 0        | ---      |
| Aluminum | ppm ASTM D5185m >20  | <b>3</b>     | 1        | ---      |
| Lead     | ppm ASTM D5185m >40  | <b>0</b>     | 0        | ---      |
| Copper   | ppm ASTM D5185m >330 | <b>&lt;1</b> | <1       | ---      |
| Tin      | ppm ASTM D5185m >15  | <b>&lt;1</b> | <1       | ---      |
| Antimony | ppm ASTM D5185m      | <b>---</b>   | <1       | ---      |
| Vanadium | ppm ASTM D5185m      | <b>&lt;1</b> | 0        | ---      |
| Cadmium  | ppm ASTM D5185m      | <b>0</b>     | 0        | ---      |

### ADDITIVES

| method     | limit/base           | current      | history1 | history2 |
|------------|----------------------|--------------|----------|----------|
| Boron      | ppm ASTM D5185m 2    | <b>3</b>     | 4        | ---      |
| Barium     | ppm ASTM D5185m 0    | <b>0</b>     | 0        | ---      |
| Molybdenum | ppm ASTM D5185m 50   | <b>63</b>    | 63       | ---      |
| Manganese  | ppm ASTM D5185m 0    | <b>&lt;1</b> | <1       | ---      |
| Magnesium  | ppm ASTM D5185m 950  | <b>1003</b>  | 990      | ---      |
| Calcium    | ppm ASTM D5185m 1050 | <b>1255</b>  | 1172     | ---      |
| Phosphorus | ppm ASTM D5185m 995  | <b>1030</b>  | 1051     | ---      |
| Zinc       | ppm ASTM D5185m 1180 | <b>1299</b>  | 1323     | ---      |
| Sulfur     | ppm ASTM D5185m 2600 | <b>3504</b>  | 2728     | ---      |

### CONTAMINANTS

| method    | limit/base          | current      | history1 | history2 |
|-----------|---------------------|--------------|----------|----------|
| Silicon   | ppm ASTM D5185m >25 | <b>7</b>     | 2        | ---      |
| Sodium    | ppm ASTM D5185m     | <b>7</b>     | 3        | ---      |
| Potassium | ppm ASTM D5185m >20 | <b>&lt;1</b> | 0        | ---      |

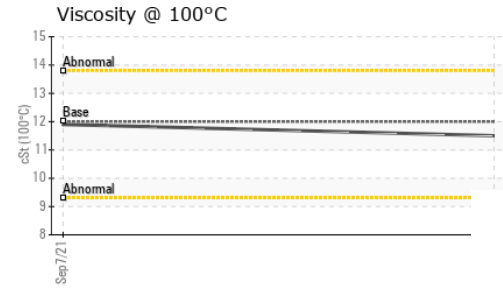
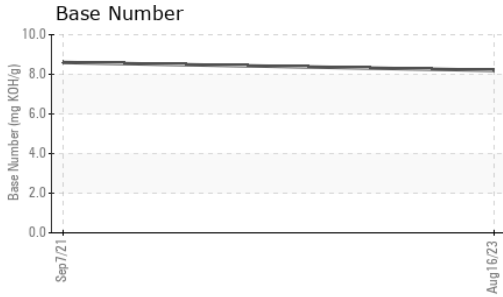
### INFRA-RED

| method    | limit/base               | current     | history1 | history2 |
|-----------|--------------------------|-------------|----------|----------|
| Soot %    | % *ASTM D7844            | <b>0.1</b>  | 0.2      | ---      |
| Nitration | Abs/cm *ASTM D7624 >20   | <b>9.5</b>  | 8.4      | ---      |
| Sulfation | Abs/.1mm *ASTM D7415 >30 | <b>20.0</b> | 18.9     | ---      |

### FLUID DEGRADATION

| method           | limit/base               | current     | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Oxidation        | Abs/.1mm *ASTM D7414 >25 | <b>17.0</b> | 15.6     | ---      |
| Base Number (BN) | mg KOH/g ASTM D2896      | <b>8.2</b>  | 8.6      | ---      |

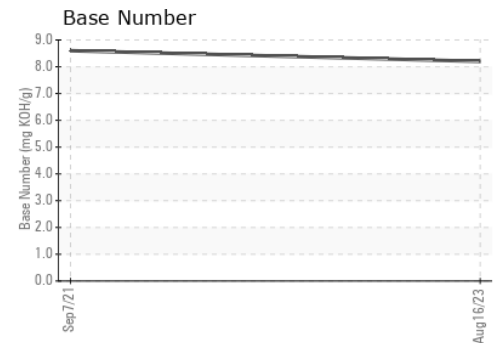
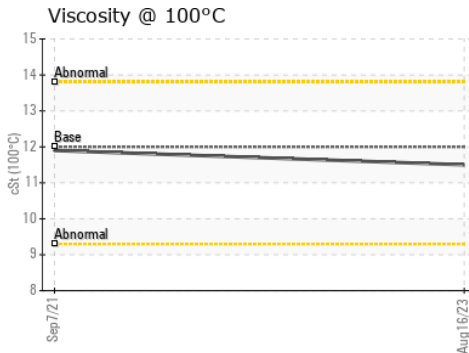
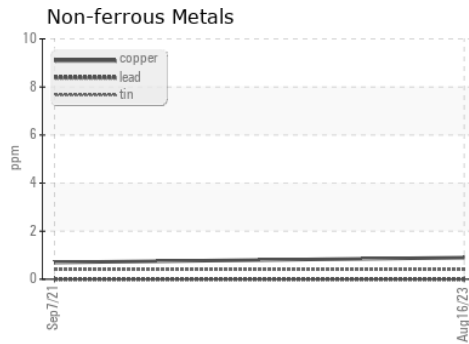
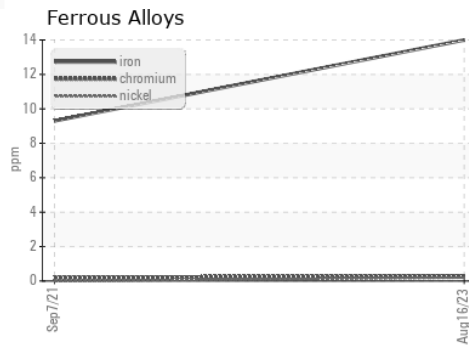
# OIL ANALYSIS REPORT



| 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    | >0.1    | NEG      | ---      |
| Free Water       | scalar | *Visual    |         | NEG      | ---      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 100°C     | cSt    | ASTM D445  | 12.00   | 11.5     | 11.9     |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0102763 **Received** : 18 Aug 2023  
**Lab Number** : 05928049 **Diagnosed** : 21 Aug 2023  
**Unique Number** : 10607996 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536  
 Contact: KEVIN HOOKS  
 kevin.hooks@perdue.com  
 T: (843)841-8069  
 F: (843)841-8070

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)