

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend





### Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- GAL

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Sampled oil )

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

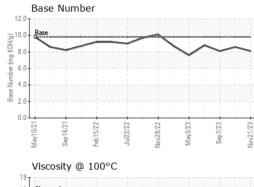
#### Fluid Condition

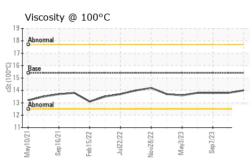
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| MPLE INFORMA | TION method                               | limit/base   | current     | history1    | history2    |  |  |  |  |  |
|--------------|---|--------------|-------------|-------------|-------------|--|--|--|--|--|
| ole Number   | Client Info                               |              | GFL0090487  | GFL0090479  | GFL0090531  |  |  |  |  |  |
| ole Date     | Client Info                               |              | 21 Nov 2023 | 09 Nov 2023 | 07 Sep 2023 |  |  |  |  |  |
| nine Age hr  | rs Client Info                            |              | 8617        | 8516        | 7931        |  |  |  |  |  |
| ge hr        | rs Client Info                            |              | 101         | 585         | 7931        |  |  |  |  |  |
| hanged       | Client Info                               |              | Not Changd  | Changed     | Changed     |  |  |  |  |  |
| ole Status   |   |              | NORMAL      | NORMAL      | NORMAL      |  |  |  |  |  |
|              | N method                                  | limit/base   | current     | history1    | history2    |  |  |  |  |  |
|              | WC Method                                 | >5           | <1.0        | <1.0        | <1.0        |  |  |  |  |  |
| r            | WC Method                                 | >0.2         | NEG         | NEG         | NEG         |  |  |  |  |  |
| l            | WC Method                                 |              | NEG         | NEG         | NEG         |  |  |  |  |  |
| EAR METALS   | method                                    | limit/base   | current     | history1    | history2    |  |  |  |  |  |
| pp           | pm ASTM D5185m                            | >100         | 0           | 7           | 7           |  |  |  |  |  |
| mium pr      | pm ASTM D5185m                            | >20          | 0           | <1          | <1          |  |  |  |  |  |
| el pr        | pm ASTM D5185m                            | >4           | <1          | 0           | 0           |  |  |  |  |  |
| ium pp       | pm ASTM D5185m                            |              | 0           | 0           | 0           |  |  |  |  |  |
| r pr         | pm ASTM D5185m                            | >3           | 0           | 0           | 0           |  |  |  |  |  |
| inum pp      | pm ASTM D5185m                            | >20          | 1           | 1           | 1           |  |  |  |  |  |
| pp           | pm ASTM D5185m                            | >40          | 0           | 0           | 0           |  |  |  |  |  |
| per pr       | pm ASTM D5185m                            | >330         | 0           | <1          | 0           |  |  |  |  |  |
|              | pm ASTM D5185m                            | >15          | <1          | <1          | <1          |  |  |  |  |  |
|              | pm ASTM D5185m                            |              | 0           | <1          | 0           |  |  |  |  |  |
|              | pm ASTM D5185m                            |              | 0           | 0           | 0           |  |  |  |  |  |
| DITIVES      | method                                    | limit/base   | current     | history1    | history2    |  |  |  |  |  |
| n pr         | pm ASTM D5185m                            | 0            | 7           | 2           | 2           |  |  |  |  |  |
|              | pm ASTM D5185m                            |              | 0           | 0           | 0           |  |  |  |  |  |
|              | pm ASTM D5185m                            | 60           | 53          | 60          | 59          |  |  |  |  |  |
|              | pm ASTM D5185m                            |              | 0           | <1<br>936   | <1<br>908   |  |  |  |  |  |
|              | pm ASTM D5185m<br>pm ASTM D5185m          | 1010<br>1070 | 838<br>1010 | 1115        | 1031        |  |  |  |  |  |
|              | pm ASTM D5185m<br>pm ASTM D5185m          | 1150         | 1010        | 1020        | 969         |  |  |  |  |  |
|              | pm ASTM D5185m                            | 1270         | 1159        | 1242        | 1166        |  |  |  |  |  |
|              | pm ASTM D5185m                            | 2060         | 3065        | 3001        | 3342        |  |  |  |  |  |
| ONTAMINANTS  | s method                                  | limit/base   |             | history1    | history2    |  |  |  |  |  |
|              | pm ASTM D5185m                            |              | 3           | 3           | 2           |  |  |  |  |  |
|              | pm ASTM D5185m                            |              | 13          | 19          | 4           |  |  |  |  |  |
|              | pm ASTM D5185m                            | >20          | 4           | 6           | 3           |  |  |  |  |  |
| FRA-RED      | method                                    | limit/base   | current     | history1    | history2    |  |  |  |  |  |
| % %          |   | >3           | 0.2         | 0.7         | 0.6         |  |  |  |  |  |
|              | bs/cm *ASTM D7624                         | >20          | 5.2         | 7.9         | 7.4         |  |  |  |  |  |
|              | os/.1mm *ASTM D7415                       | >30          | 17.4        | 19.6        | 19.1        |  |  |  |  |  |
| UID DEGRADA  | TION method                               | limit/base   | current     | history1    | history2    |  |  |  |  |  |
|              |   |              |             |             | 14.0        |  |  |  |  |  |
|              |   | 9.8          |             |             | 8.1         |  |  |  |  |  |
| ation Ab     | ps/.1mm *ASTM D7414<br>g KOH/g ASTM D2896 | >25          | 12.8<br>8.1 | 14.5<br>8.6 |             |  |  |  |  |  |

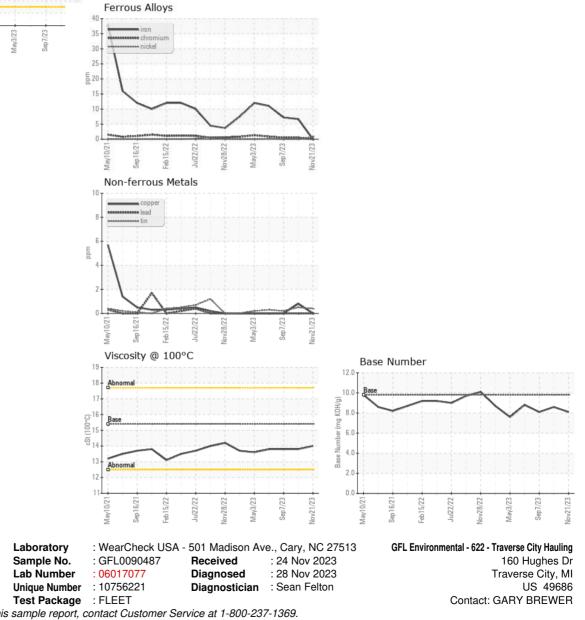


# **OIL ANALYSIS REPORT**





| VISUAL           |        | method    | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual   | NONE       | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual   | NONE       | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual   | NONE       | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual   | NONE       | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual   | NONE       | NONE    | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual   | NONE       | NONE    | NONE     | NONE     |
| Appearance       | scalar | *Visual   | NORML      | NORML   | NORML    | NORML    |
| Odor             | scalar | *Visual   | NORML      | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | *Visual   | >0.2       | NEG     | NEG      | NEG      |
| Free Water       | scalar | *Visual   |            | NEG     | NEG      | NEG      |
| FLUID PROPE      | RTIES  | method    | limit/base | current | history1 | history2 |
| Visc @ 100°C     | cSt    | ASTM D445 | 15.4       | 14.0    | 13.8     | 13.8     |
| GRAPHS           |        |           |            |         |          |          |





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)

Submitted By: TECHNICIAN ACCOUNT