



|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |



Machine Id  
**401102**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: Corrected hours on truck, previous were klm )

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>GFL0080091</b>  | GFL0095027  | GFL0044702  |
| Sample Date    |     | Client Info |           | <b>07 May 2024</b> | 19 Nov 2023 | 16 May 2023 |
| Machine Age    | hrs | Client Info |           | <b>28813</b>       | 27981       | 27017       |
| Oil Age        | hrs | Client Info |           | <b>600</b>         | 600         | 600         |
| Filter Age     | hrs | Client Info |           | <b>600</b>         | 600         | 600         |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|          |     |               |      |              |    |    |
|----------|-----|---------------|------|--------------|----|----|
| Iron     | ppm | ASTM D5185(m) | >120 | <b>4</b>     | 4  | 4  |
| Chromium | ppm | ASTM D5185(m) | >20  | <b>0</b>     | 0  | 0  |
| Nickel   | ppm | ASTM D5185(m) | >5   | <b>0</b>     | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2   | <b>0</b>     | 0  | 0  |
| Silver   | ppm | ASTM D5185(m) | >2   | <b>0</b>     | 0  | 0  |
| Aluminum | ppm | ASTM D5185(m) | >20  | <b>&lt;1</b> | 2  | <1 |
| Lead     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | <1 | 0  |
| Copper   | ppm | ASTM D5185(m) | >330 | <b>4</b>     | 2  | 2  |
| Tin      | ppm | ASTM D5185(m) | >15  | <b>&lt;1</b> | 0  | <1 |
| Vanadium | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

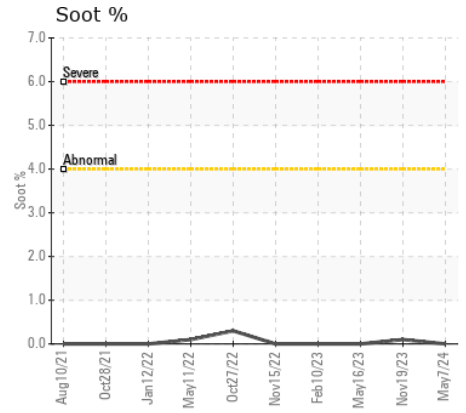
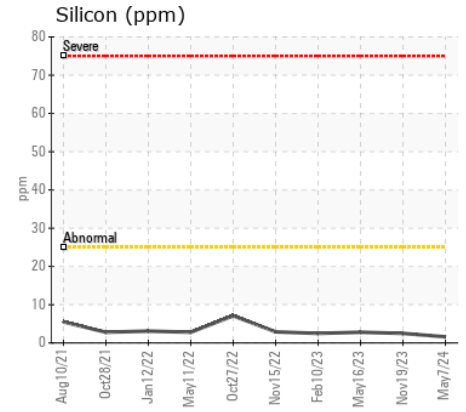
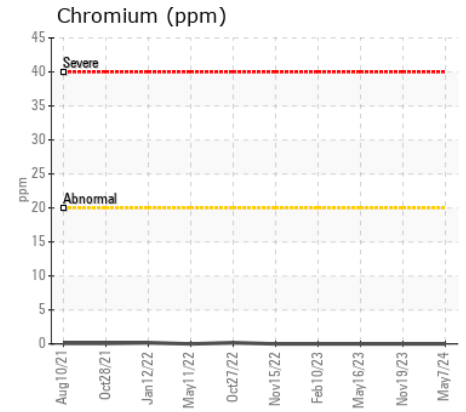
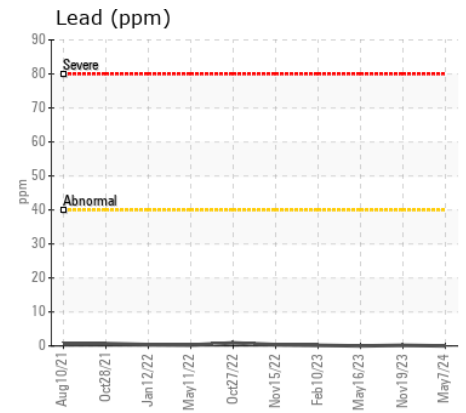
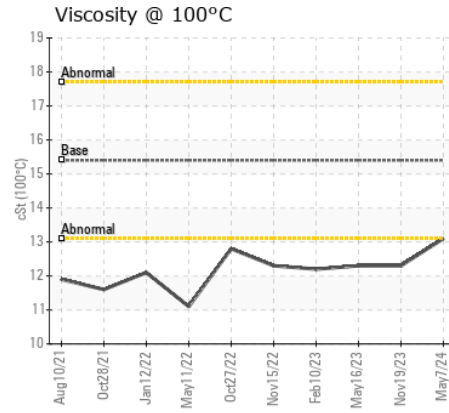
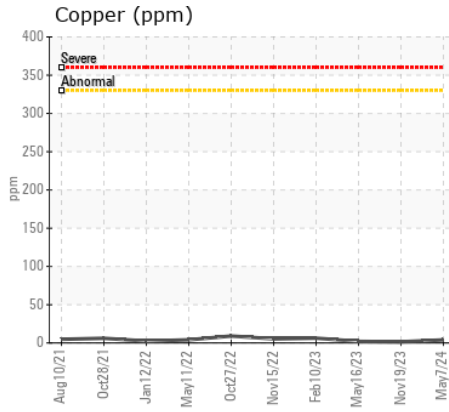
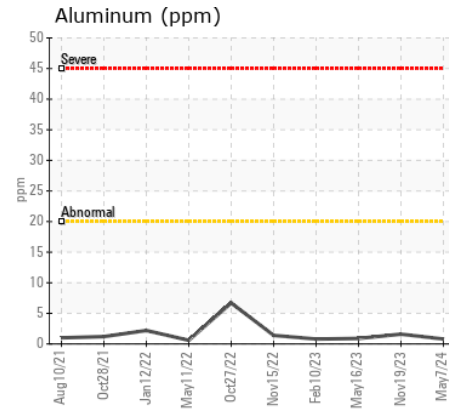
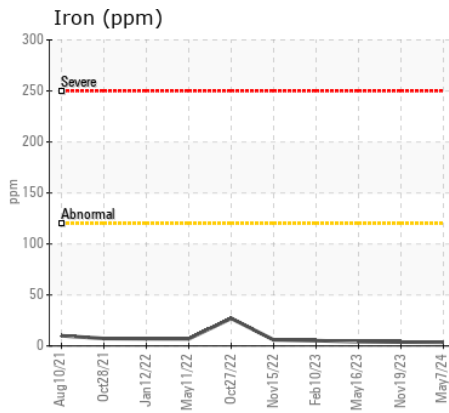
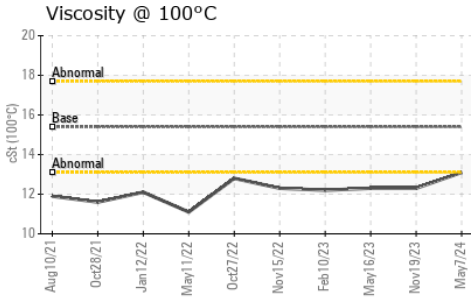
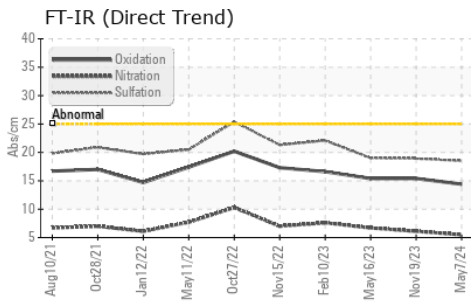
There is no indication of any contamination in the oil.

|                  |          |               |      |                |      |      |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon          | ppm      | ASTM D5185(m) | >25  | <b>2</b>       | 2    | 3    |
| Potassium        | ppm      | ASTM D5185(m) | >20  | <b>&lt;1</b>   | <1   | <1   |
| Fuel             |          | WC Method     | >3.0 | <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  |
| Soot %           | %        | ASTM D7844*   | >4   | <b>0</b>       | 0.1  | 0    |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | <b>5.5</b>     | 6.1  | 6.7  |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | <b>18.5</b>    | 18.9 | 19.0 |
| Emulsified Water | scalar   | Visual*       | >0.2 | <b>NEG</b>     | NEG  | NEG  |

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

|              |          |               |      |             |      |      |
|--------------|----------|---------------|------|-------------|------|------|
| Sodium       | ppm      | ASTM D5185(m) |      | <b>1</b>    | 1    | 1    |
| Boron        | ppm      | ASTM D5185(m) | 0    | <b>2</b>    | 4    | 7    |
| Barium       | ppm      | ASTM D5185(m) | 0    | <b>0</b>    | 0    | 0    |
| Molybdenum   | ppm      | ASTM D5185(m) | 60   | <b>58</b>   | 58   | 56   |
| Manganese    | ppm      | ASTM D5185(m) | 0    | <b>0</b>    | 0    | <1   |
| Magnesium    | ppm      | ASTM D5185(m) | 1010 | <b>954</b>  | 929  | 930  |
| Calcium      | ppm      | ASTM D5185(m) | 1070 | <b>1012</b> | 1014 | 1101 |
| Phosphorus   | ppm      | ASTM D5185(m) | 1150 | <b>976</b>  | 984  | 1055 |
| Zinc         | ppm      | ASTM D5185(m) | 1270 | <b>1152</b> | 1137 | 1130 |
| Sulfur       | ppm      | ASTM D5185(m) | 2060 | <b>2551</b> | 2731 | 2622 |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25  | <b>14.4</b> | 15.4 | 15.4 |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 15.4 | <b>13.1</b> | 12.3 | 12.3 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0080091  
**Lab Number** : 02636838  
**Unique Number** : 5786000  
**Test Package** : MOB 1

**GFL Environmental - 577 - First Class**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.