



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

Machine Id  
**519005**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SAE 10W30 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>GFL0118556</b>  | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>25 Apr 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

**WEAR**

All component wear rates are normal.

|              |        |               |      |              |     |     |
|--------------|--------|---------------|------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185(m) | >110 | <b>11</b>    | --- | --- |
| Chromium     | ppm    | ASTM D5185(m) | >4   | <b>0</b>     | --- | --- |
| Nickel       | ppm    | ASTM D5185(m) | >2   | <b>0</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | --- | --- |
| Silver       | ppm    | ASTM D5185(m) | >2   | <b>0</b>     | --- | --- |
| Aluminum     | ppm    | ASTM D5185(m) | >25  | <b>3</b>     | --- | --- |
| Lead         | ppm    | ASTM D5185(m) | >45  | <b>0</b>     | --- | --- |
| Copper       | ppm    | ASTM D5185(m) | >85  | <b>&lt;1</b> | --- | --- |
| Tin          | ppm    | ASTM D5185(m) | >4   | <b>0</b>     | --- | --- |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | --- | --- |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b>  | --- | --- |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | --- | --- |

**CONTAMINATION**

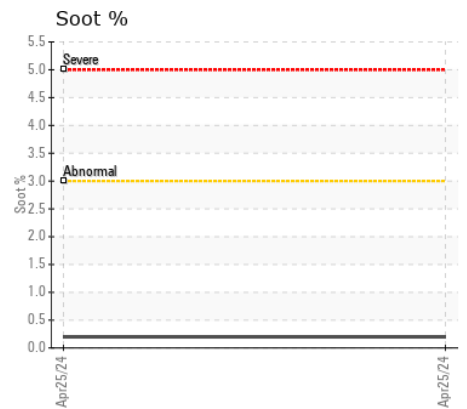
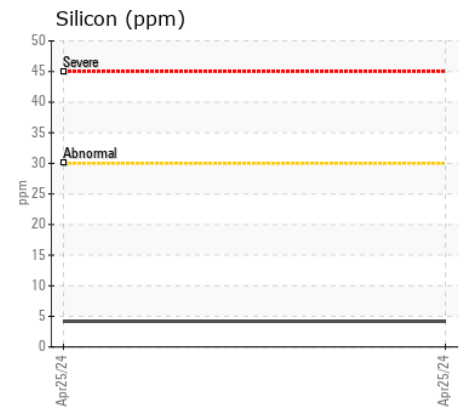
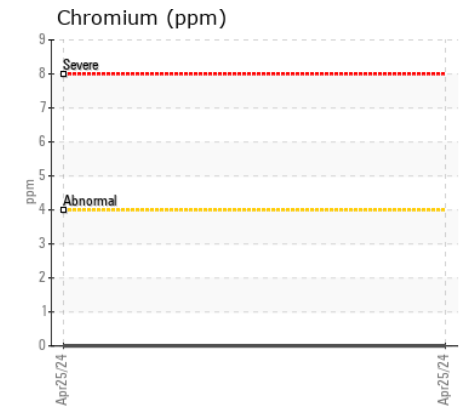
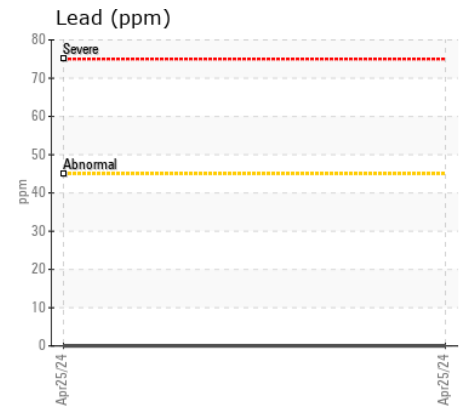
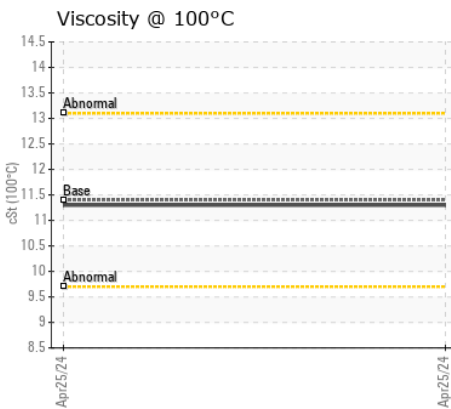
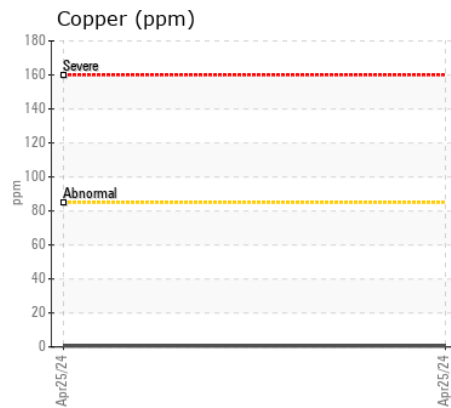
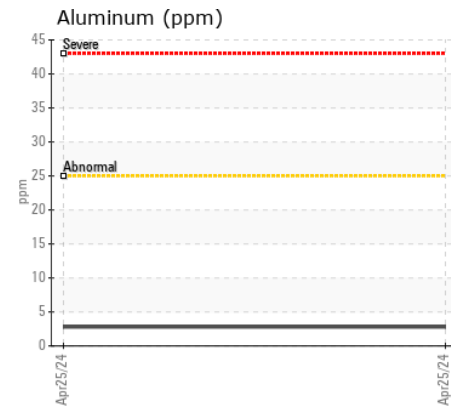
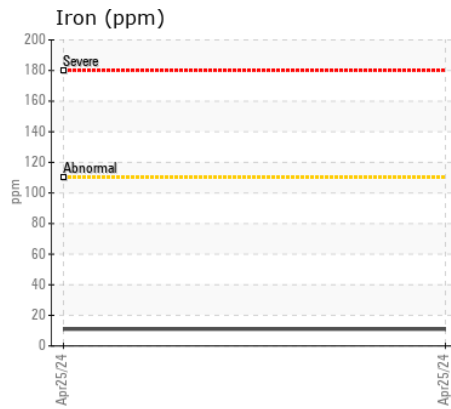
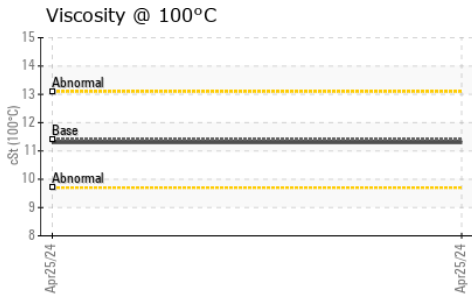
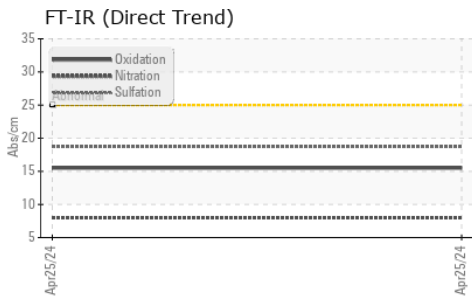
There is no indication of any contamination in the oil.

|                  |          |               |       |                |     |     |
|------------------|----------|---------------|-------|----------------|-----|-----|
| Silicon          | ppm      | ASTM D5185(m) | >30   | <b>4</b>       | --- | --- |
| Potassium        | ppm      | ASTM D5185(m) | >20   | <b>3</b>       | --- | --- |
| Fuel             |          | WC Method     | >5    | <b>&lt;1.0</b> | --- | --- |
| Water            |          | WC Method     | >0.2  | <b>NEG</b>     | --- | --- |
| Glycol           |          | WC Method     |       | <b>NEG</b>     | --- | --- |
| Soot %           | %        | ASTM D7844*   | >3    | <b>0.2</b>     | --- | --- |
| Nitration        | Abs/cm   | ASTM D7624*   | >20   | <b>8.0</b>     | --- | --- |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30   | <b>18.7</b>    | --- | --- |
| Silt             | scalar   | Visual*       | NONE  | <b>NONE</b>    | --- | --- |
| Debris           | scalar   | Visual*       | NONE  | <b>NONE</b>    | --- | --- |
| Sand/Dirt        | scalar   | Visual*       | NONE  | <b>NONE</b>    | --- | --- |
| Appearance       | scalar   | Visual*       | NORML | <b>NORML</b>   | --- | --- |
| Odor             | scalar   | Visual*       | NORML | <b>NORML</b>   | --- | --- |
| Emulsified Water | scalar   | Visual*       | >0.2  | <b>NEG</b>     | --- | --- |

**FLUID CONDITION**

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

|              |          |               |      |             |     |     |
|--------------|----------|---------------|------|-------------|-----|-----|
| Sodium       | ppm      | ASTM D5185(m) |      | <b>1</b>    | --- | --- |
| Boron        | ppm      | ASTM D5185(m) | 1    | <b>5</b>    | --- | --- |
| Barium       | ppm      | ASTM D5185(m) | 1    | <b>0</b>    | --- | --- |
| Molybdenum   | ppm      | ASTM D5185(m) | 1    | <b>59</b>   | --- | --- |
| Manganese    | ppm      | ASTM D5185(m) | 1    | <b>0</b>    | --- | --- |
| Magnesium    | ppm      | ASTM D5185(m) | 10   | <b>980</b>  | --- | --- |
| Calcium      | ppm      | ASTM D5185(m) | 2942 | <b>1088</b> | --- | --- |
| Phosphorus   | ppm      | ASTM D5185(m) | 1102 | <b>972</b>  | --- | --- |
| Zinc         | ppm      | ASTM D5185(m) | 1351 | <b>1177</b> | --- | --- |
| Sulfur       | ppm      | ASTM D5185(m) | 3903 | <b>2526</b> | --- | --- |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25  | <b>15.5</b> | --- | --- |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 11.4 | <b>11.3</b> | --- | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118556  
**Lab Number** : 02639570  
**Unique Number** : 5788732  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GFL Environmental - 310 - Winnipeg**  
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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.