



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



Area  
**COUNTY FARM CENTRE**  
Machine Id  
**511007**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>GFL0115561</b>  | GFL0090895  | GFL0084207  |
| Sample Date    |     | Client Info |           | <b>15 Apr 2024</b> | 25 Oct 2023 | 14 Jun 2023 |
| Machine Age    | kms | Client Info |           | <b>411145</b>      | 383324      | 332238      |
| Oil Age        | kms | Client Info |           | <b>27821</b>       | 0           | 27840       |
| Filter Age     | kms | Client Info |           | <b>0</b>           | 0           | 27840       |
| 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>22</b>    | 29 | 15 |
| Chromium | ppm | ASTM D5185(m) | >20  | <b>&lt;1</b> | <1 | <1 |
| Nickel   | ppm | ASTM D5185(m) | >5   | <b>1</b>     | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2   | <b>0</b>     | 0  | <1 |
| Silver   | ppm | ASTM D5185(m) | >2   | <b>0</b>     | <1 | 0  |
| Aluminum | ppm | ASTM D5185(m) | >20  | <b>2</b>     | 2  | 2  |
| Lead     | ppm | ASTM D5185(m) | >40  | <b>&lt;1</b> | 2  | 1  |
| Copper   | ppm | ASTM D5185(m) | >330 | <b>11</b>    | 8  | 4  |
| Tin      | ppm | ASTM D5185(m) | >15  | <b>&lt;1</b> | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

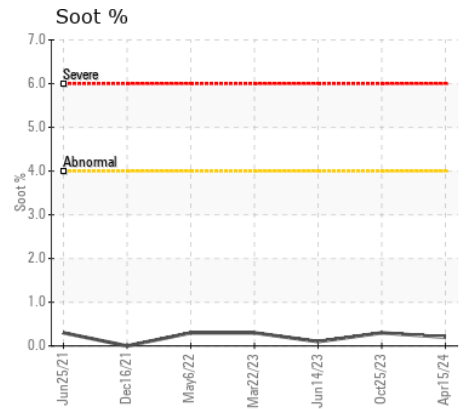
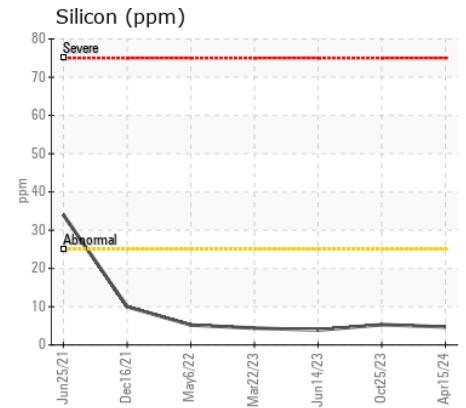
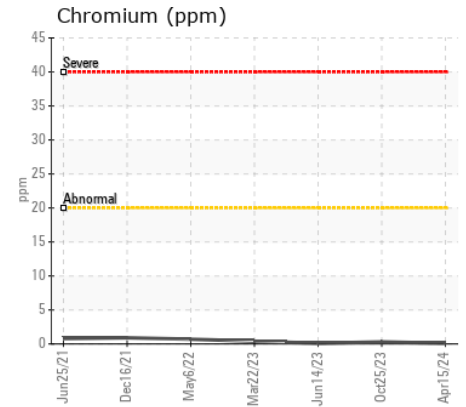
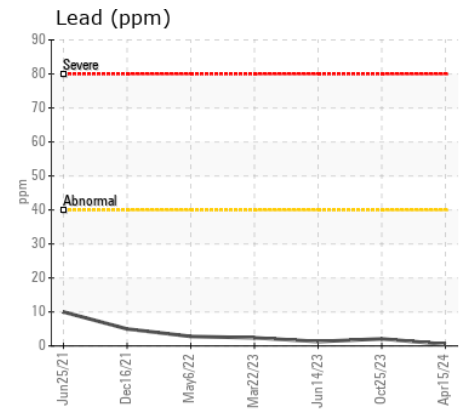
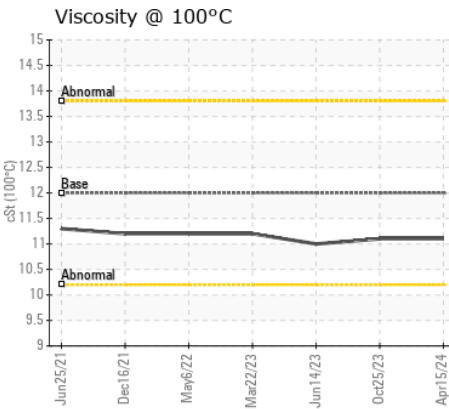
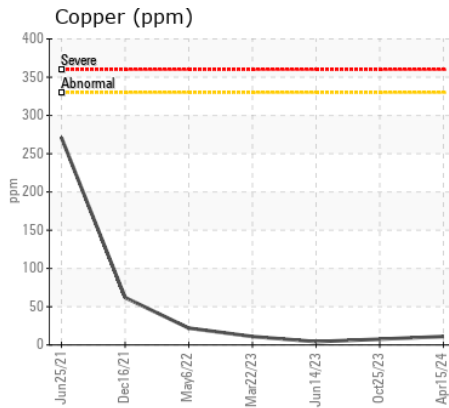
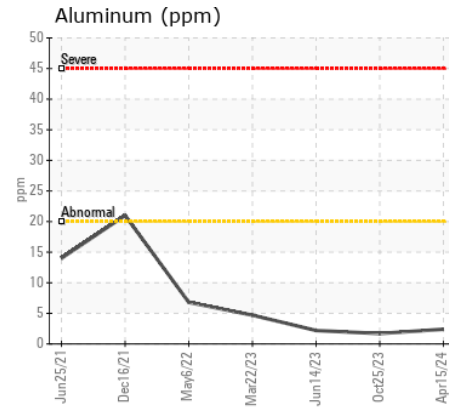
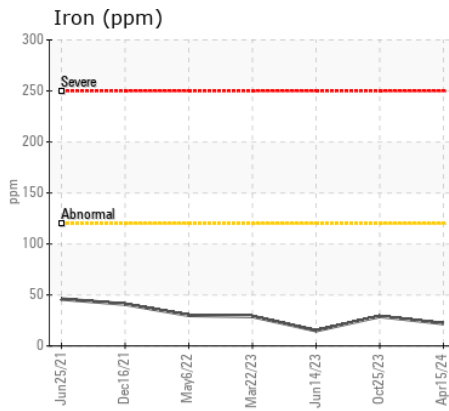
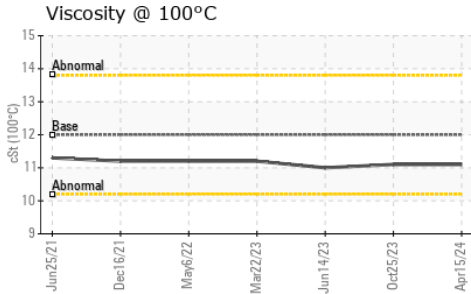
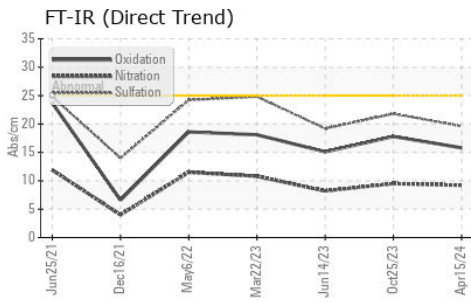
There is no indication of any contamination in the oil.

|                  |          |               |      |                |      |      |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon          | ppm      | ASTM D5185(m) | >25  | <b>5</b>       | 5    | 4    |
| Potassium        | ppm      | ASTM D5185(m) | >20  | <b>2</b>       | 2    | <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>0.2</b>     | 0.3  | 0.1  |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | <b>9.2</b>     | 9.5  | 8.2  |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | <b>19.6</b>    | 21.8 | 19.2 |
| 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>2</b>     | 2    | 2    |
| Boron        | ppm      | ASTM D5185(m) | 2     | <b>5</b>     | 4    | 5    |
| Barium       | ppm      | ASTM D5185(m) | 0     | <b>&lt;1</b> | <1   | 0    |
| Molybdenum   | ppm      | ASTM D5185(m) | 50    | <b>59</b>    | 64   | 61   |
| Manganese    | ppm      | ASTM D5185(m) | 0     | <b>&lt;1</b> | 0    | <1   |
| Magnesium    | ppm      | ASTM D5185(m) | 950   | <b>973</b>   | 943  | 937  |
| Calcium      | ppm      | ASTM D5185(m) | 1050  | <b>1113</b>  | 1140 | 1136 |
| Phosphorus   | ppm      | ASTM D5185(m) | 995   | <b>989</b>   | 910  | 1061 |
| Zinc         | ppm      | ASTM D5185(m) | 1180  | <b>1194</b>  | 1189 | 1191 |
| Sulfur       | ppm      | ASTM D5185(m) | 2600  | <b>2443</b>  | 2194 | 2570 |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25   | <b>15.8</b>  | 17.8 | 15.1 |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 12.00 | <b>11.1</b>  | 11.1 | 11.0 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0115561  
**Lab Number** : 02629438  
**Unique Number** : 5762570  
**Test Package** : MOB 1

**GFL Environmental - 245 - BJ Bear**  
 2616 Cedar Creek Road  
 Ayr, ON  
 CA N0B 1E0  
 Contact: Erik Prpic  
 eprpic@gflenv.com  
 T: (519)570-9000  
 F:

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.