



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



Machine Id  
**419003**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (10 GAL)**

**RECOMMENDATION**

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>GFL0107381</b>  | GFL0076628  | GFL0056190  |
| Sample Date    |     | Client Info |           | <b>10 Apr 2024</b> | 26 Apr 2023 | 22 Nov 2022 |
| Machine Age    | hrs | Client Info |           | <b>7449</b>        | 6139        | 5547        |
| 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**

Les taux d'usure de tous les composants sont normaux.

|          |     |               |      |              |    |    |
|----------|-----|---------------|------|--------------|----|----|
| Iron     | ppm | ASTM D5185(m) | >120 | <b>11</b>    | 10 | 5  |
| Chromium | ppm | ASTM D5185(m) | >20  | <b>0</b>     | 0  | 0  |
| Nickel   | ppm | ASTM D5185(m) | >5   | <b>&lt;1</b> | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2   | <b>0</b>     | 0  | <1 |
| Silver   | ppm | ASTM D5185(m) | >2   | <b>0</b>     | 0  | 0  |
| Aluminum | ppm | ASTM D5185(m) | >20  | <b>2</b>     | 2  | 1  |
| Lead     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | <1 | 1  |
| Copper   | ppm | ASTM D5185(m) | >330 | <b>3</b>     | 3  | 1  |
| Tin      | ppm | ASTM D5185(m) | >15  | <b>0</b>     | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

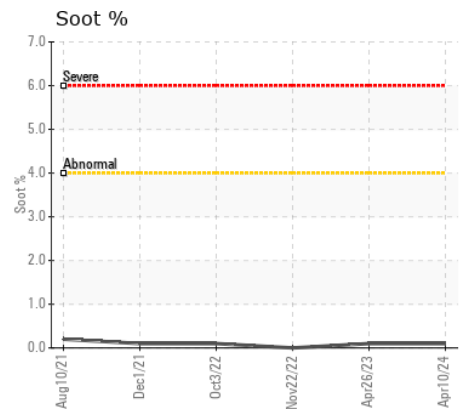
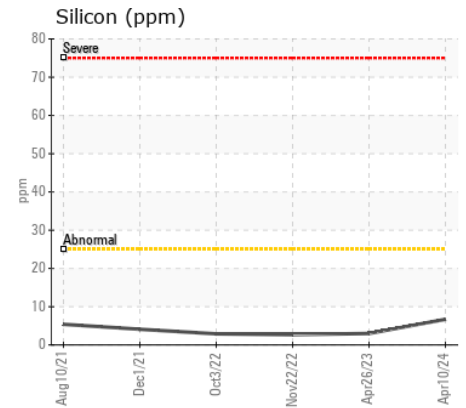
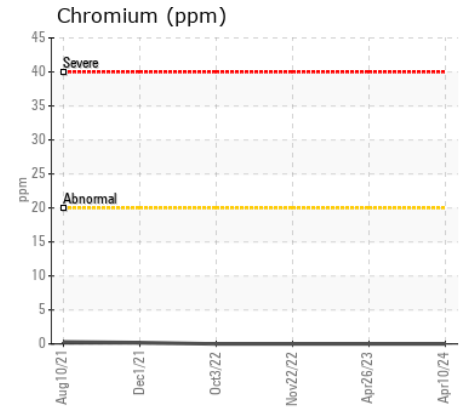
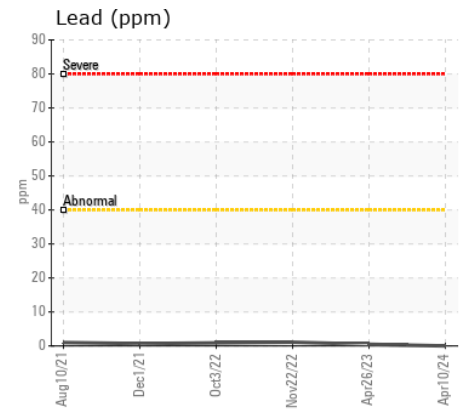
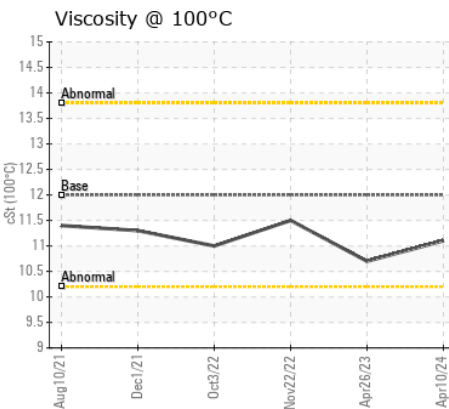
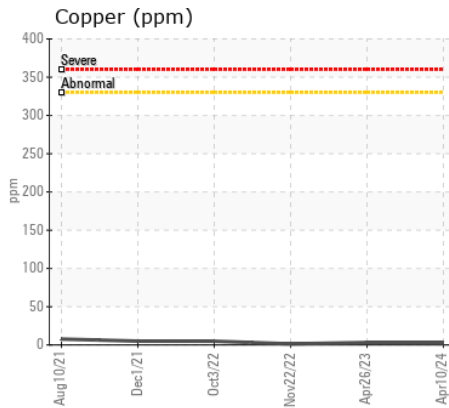
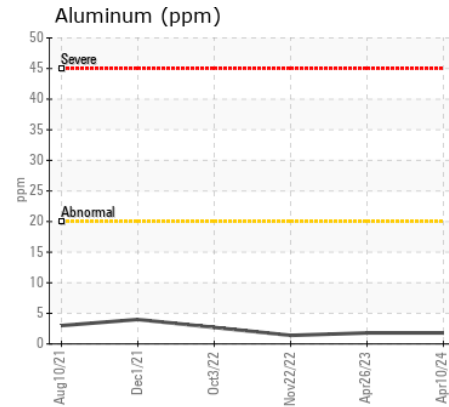
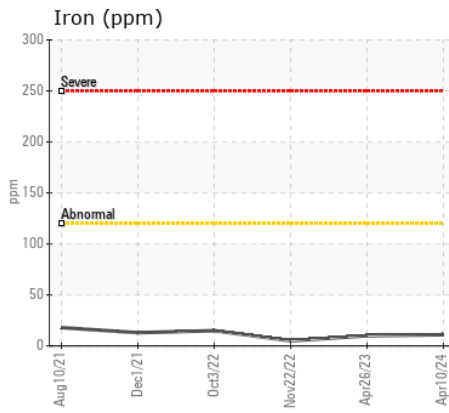
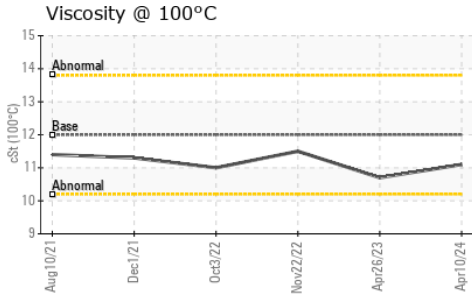
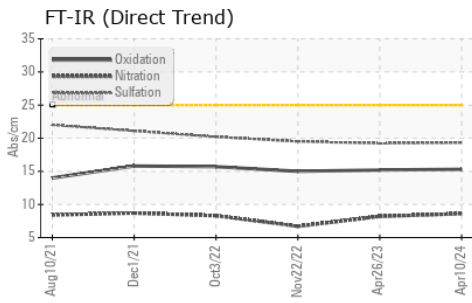
Il n'y a aucun indice de contamination dans l'huile.

|                  |          |               |      |                |      |      |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon          | ppm      | ASTM D5185(m) | >25  | <b>7</b>       | 3    | 3    |
| 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>0.1</b>     | 0.1  | 0    |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | <b>8.6</b>     | 8.2  | 6.7  |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | <b>19.3</b>    | 19.2 | 19.5 |
| Emulsified Water | scalar   | Visual*       | >0.2 | <b>NEG</b>     | NEG  | NEG  |

**FLUID CONDITION**

L'état de l'huile est acceptable pour la durée de service.

|              |          |               |       |              |      |      |
|--------------|----------|---------------|-------|--------------|------|------|
| Sodium       | ppm      | ASTM D5185(m) |       | <b>2</b>     | 3    | 2    |
| Boron        | ppm      | ASTM D5185(m) | 2     | <b>2</b>     | 5    | 7    |
| Barium       | ppm      | ASTM D5185(m) | 0     | <b>0</b>     | 0    | 0    |
| Molybdenum   | ppm      | ASTM D5185(m) | 50    | <b>60</b>    | 54   | 57   |
| Manganese    | ppm      | ASTM D5185(m) | 0     | <b>&lt;1</b> | <1   | <1   |
| Magnesium    | ppm      | ASTM D5185(m) | 950   | <b>982</b>   | 973  | 948  |
| Calcium      | ppm      | ASTM D5185(m) | 1050  | <b>1078</b>  | 1110 | 1061 |
| Phosphorus   | ppm      | ASTM D5185(m) | 995   | <b>996</b>   | 1080 | 1053 |
| Zinc         | ppm      | ASTM D5185(m) | 1180  | <b>1196</b>  | 1215 | 1181 |
| Sulfur       | ppm      | ASTM D5185(m) | 2600  | <b>2456</b>  | 2593 | 2637 |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25   | <b>15.3</b>  | 15.2 | 15.0 |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 12.00 | <b>11.1</b>  | 10.7 | 11.5 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107381  
**Lab Number** : 02628710  
**Unique Number** : 5761842  
**Test Package** : MOB 1

**GFL Environmental - 731STOK - Stoke Hauling**  
 286 Chemin Cote  
 Stoke, QC  
 CA J0B 3G0  
 Contact: Robert Sayers  
 rsayers@matrec.ca

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.

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F: