



|                |               |
|----------------|---------------|
| USURE          | <b>NORMAL</b> |
| CONTAMINATION  | <b>NORMAL</b> |
| ÉTAT DU FLUIDE | <b>NORMAL</b> |

Secteur

**MICHAUDVILLE**

Identité de la machine

**1223**

Composant

**Moteur diesel**

Fluid

**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

| Test                | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant.    |     | Client Info |           | <b>PC0084299</b>   | PC0084446   | PC0082933   |
| Date d'échant.      |     | Client Info |           | <b>26 Jun 2024</b> | 12 Mar 2024 | 21 Nov 2023 |
| Âge d la Machine    | hrs | Client Info |           | <b>10402</b>       | 9879        | 9439        |
| Âge de l'huile      | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Âge du filtre       | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Huile changée       |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Filtre changé       |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Statut de l'échant. |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**USURE**

All component wear rates are normal.

|           |     |               |      |              |    |    |
|-----------|-----|---------------|------|--------------|----|----|
| Fer       | ppm | ASTM D5185(m) | >100 | <b>8</b>     | 9  | 14 |
| Chrome    | ppm | ASTM D5185(m) | >20  | <b>0</b>     | 0  | 0  |
| Nickel    | ppm | ASTM D5185(m) | >4   | <b>&lt;1</b> | <1 | 0  |
| Titane    | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |
| Argent    | ppm | ASTM D5185(m) | >3   | <b>0</b>     | 0  | <1 |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>2</b>     | 2  | 3  |
| Plomb     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | 0  | <1 |
| Cuivre    | ppm | ASTM D5185(m) | >330 | <b>&lt;1</b> | <1 | 1  |
| Étain     | ppm | ASTM D5185(m) | >15  | <b>0</b>     | 0  | 0  |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

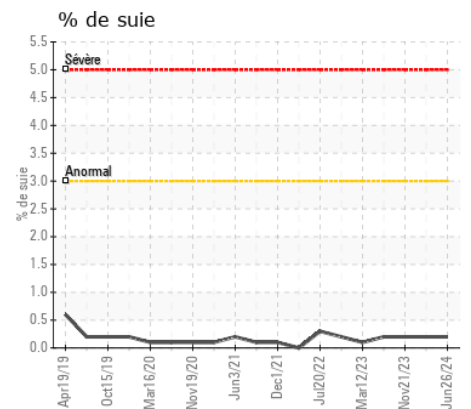
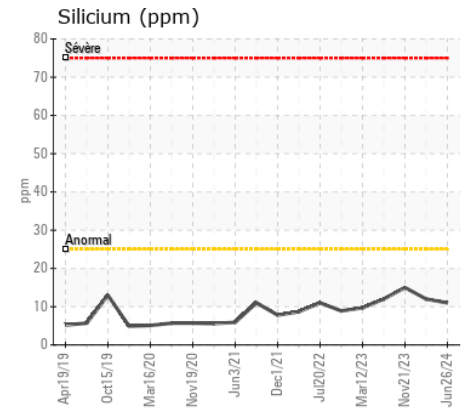
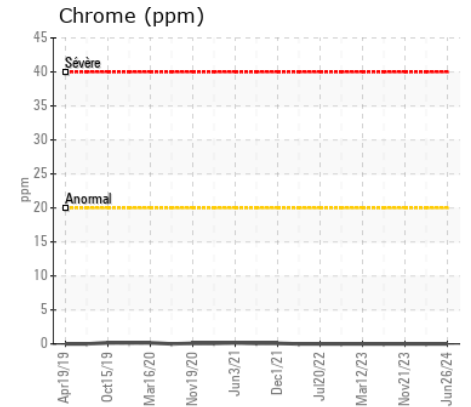
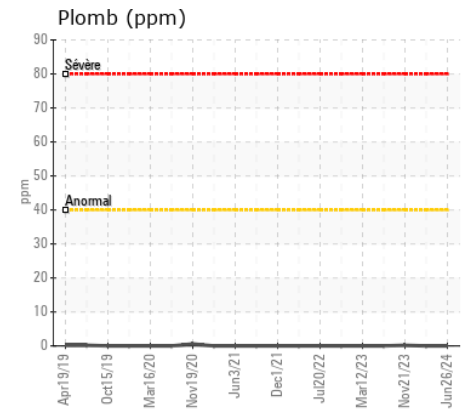
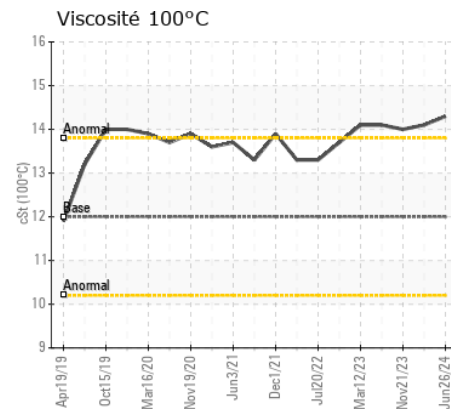
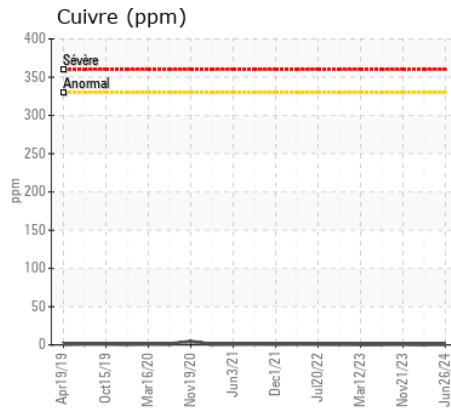
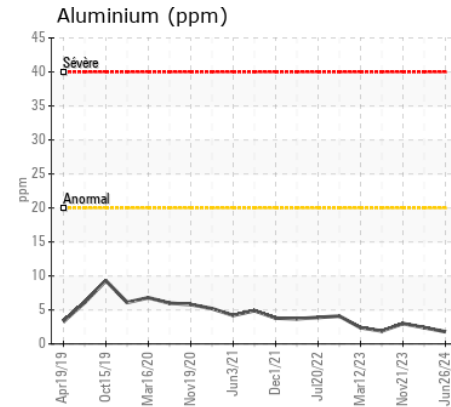
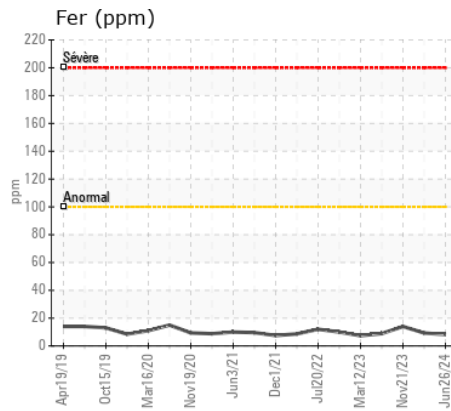
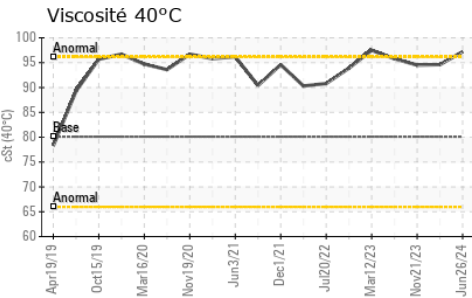
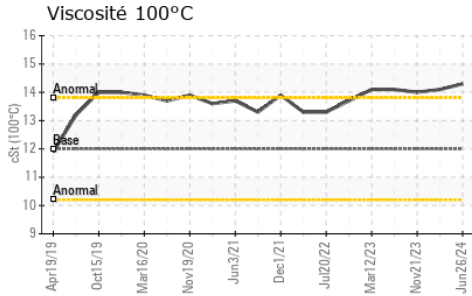
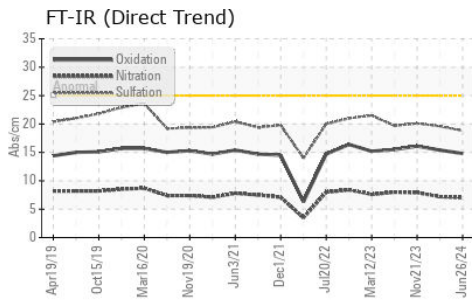
There is no indication of any contamination in the oil.

|                |          |               |      |                |      |      |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium       | ppm      | ASTM D5185(m) | >25  | <b>11</b>      | 12   | 15   |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>2</b>       | 4    | 3    |
| Essence        |          | WC Method     | >5   | <b>&lt;1.0</b> | <1.0 | <1.0 |
| L'eau          |          | WC Method     | >0.2 | <b>NEG</b>     | NEG  | NEG  |
| Glycol         |          | WC Method     |      | <b>NEG</b>     | NEG  | NEG  |
| % de suie      | %        | ASTM D7844*   | >3   | <b>0.2</b>     | 0.2  | 0.2  |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>7.0</b>     | 7.2  | 7.9  |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>18.8</b>    | 19.6 | 20.1 |
| Eau émulsifiée | scalar   | Visual*       | >0.2 | <b>NEG</b>     | NEG  | NEG  |

**ÉTAT DU FLUIDE**

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

|                          |          |               |       |              |      |      |
|--------------------------|----------|---------------|-------|--------------|------|------|
| Sodium                   | ppm      | ASTM D5185(m) |       | <b>1</b>     | 2    | 2    |
| Bore                     | ppm      | ASTM D5185(m) | 2     | <b>1</b>     | 2    | 2    |
| Baryum                   | ppm      | ASTM D5185(m) | 0     | <b>0</b>     | 0    | 0    |
| Molybdène                | ppm      | ASTM D5185(m) | 50    | <b>57</b>    | 57   | 58   |
| Manganèse                | ppm      | ASTM D5185(m) | 0     | <b>&lt;1</b> | 0    | 0    |
| Magnésium                | ppm      | ASTM D5185(m) | 950   | <b>925</b>   | 934  | 945  |
| Calcium                  | ppm      | ASTM D5185(m) | 1050  | <b>1058</b>  | 1145 | 1112 |
| Phosphore                | ppm      | ASTM D5185(m) | 995   | <b>967</b>   | 1014 | 999  |
| Zinc                     | ppm      | ASTM D5185(m) | 1180  | <b>1192</b>  | 1204 | 1217 |
| Soufre                   | ppm      | ASTM D5185(m) | 2600  | <b>2482</b>  | 2749 | 2485 |
| Oxydation                | Abs/.1mm | ASTM D7414*   | >25   | <b>14.8</b>  | 15.4 | 16.1 |
| Visc 40°C                | cSt      | ASTM D7279(m) | 80.1  | <b>97.2</b>  | 94.6 | 94.5 |
| Visc 100°C               | cSt      | ASTM D7279(m) | 12.00 | <b>14.3</b>  | 14.1 | 14.0 |
| Indice de viscosité (VI) | Scale    | ASTM D2270*   | 144   | <b>151</b>   | 152  | 151  |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**N° d'échantillon** : PC0084299

**N° de laboratoire** : 02644317

**Numéro unique** : 5801856

**Analyse** : MOB 1 ( Additional Tests: KV40, VI )

**Reçu** : 27 Jun 2024

**Tested** : 27 Jun 2024

**Diagnostiqué** : 27 Jun 2024 - Wes Davis

**LES ENTREPRISES MICHAUVILLE INC.**

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MONT ST-HILAIRE, QC

CA J3H 0M6

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T:

F:

Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.