



# RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

**INTERNATIONAL 52936**

Composant

**Moteur au propane**

Fluide

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

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test                | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant.    |     | Client Info |           | <b>WC0877559</b>   | WC0857920   | WC0857900   |
| Date d'échant.      |     | Client Info |           | <b>04 Nov 2023</b> | 05 Oct 2023 | 07 Sep 2023 |
| Âge d la Machine    | mls | Client Info |           | <b>116588</b>      | 32697       | 88226       |
| Âge de l'huile      | mls | Client Info |           | <b>0</b>           | 32697       | 88226       |
| Âge du filtre       | mls | Client Info |           | <b>0</b>           | 32697       | 88226       |
| Huile changée       |     | Client Info |           | <b>Not Changd</b>  | Changed     | Not Changd  |
| Filtre changé       |     | Client Info |           | <b>Not Changd</b>  | Changed     | Not Changd  |
| Statut de l'échant. |     |             |           | <b>NORMAL</b>      | ABNORMAL    | ABNORMAL    |

## USURE

All component wear rates are normal.

|           |     |               |      |              |    |    |
|-----------|-----|---------------|------|--------------|----|----|
| Fer       | ppm | ASTM D5185(m) | >100 | <b>9</b>     | 20 | 15 |
| Chrome    | ppm | ASTM D5185(m) | >25  | <b>&lt;1</b> | 2  | 1  |
| Nickel    | ppm | ASTM D5185(m) | >5   | <b>&lt;1</b> | <1 | <1 |
| Titane    | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |
| Argent    | ppm | ASTM D5185(m) | >5   | <b>&lt;1</b> | <1 | <1 |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>5</b>     | 18 | 17 |
| Plomb     | ppm | ASTM D5185(m) | >25  | <b>2</b>     | 4  | 2  |
| Cuivre    | ppm | ASTM D5185(m) | >35  | <b>&lt;1</b> | 2  | 2  |
| Étain     | ppm | ASTM D5185(m) | >8   | <b>&lt;1</b> | 1  | 1  |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

## CONTAMINATION

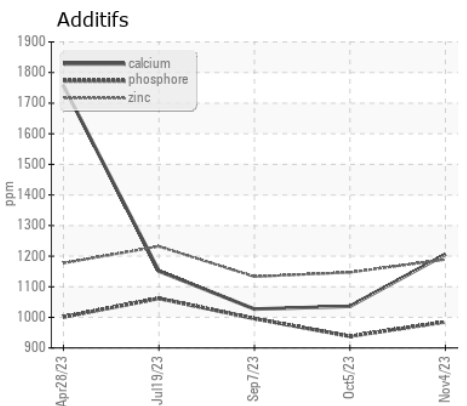
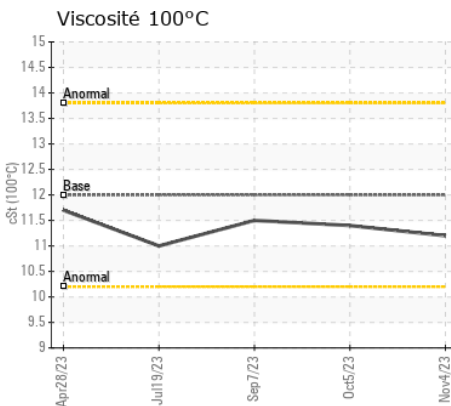
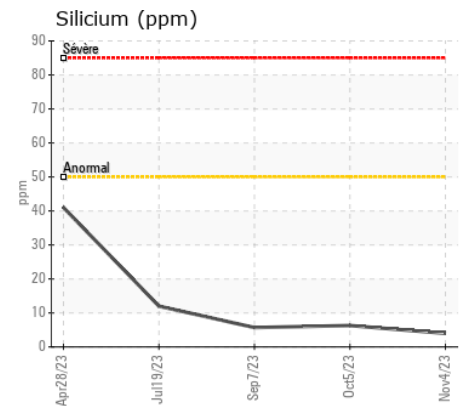
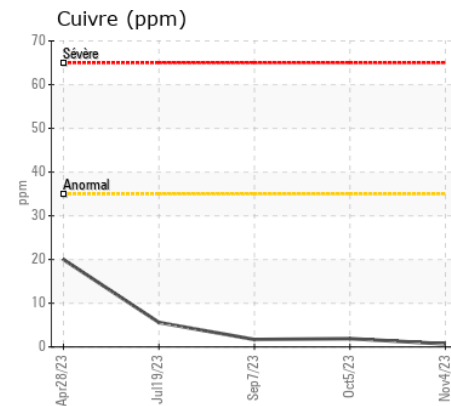
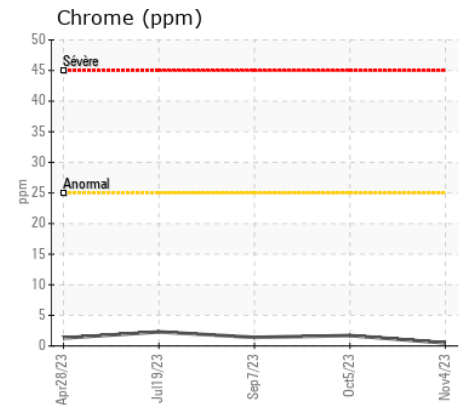
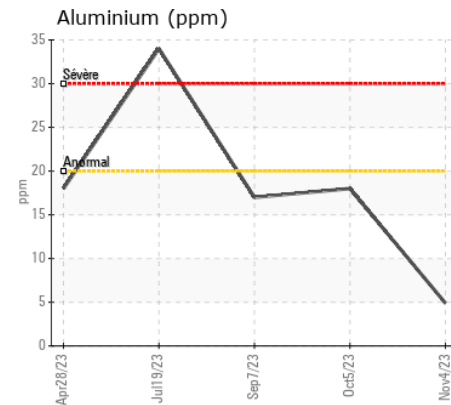
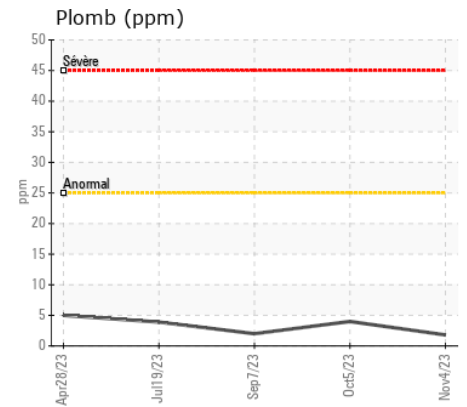
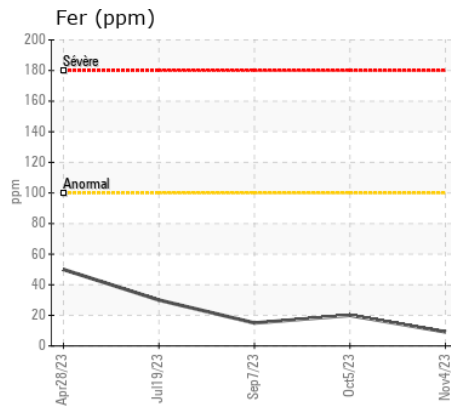
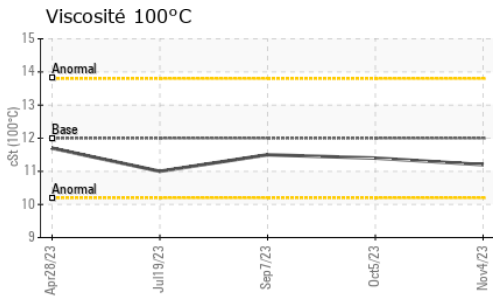
There is no indication of any contamination in the oil.

|                |          |               |      |             |      |      |
|----------------|----------|---------------|------|-------------|------|------|
| Silicium       | ppm      | ASTM D5185(m) | >50  | <b>4</b>    | 6    | 6    |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>10</b>   | ▲ 48 | ▲ 46 |
| L'eau          |          | WC Method     | >0.1 | <b>NEG</b>  | NEG  | NEG  |
| % de suie      | %        | ASTM D7844*   |      | <b>0.1</b>  | 0.3  | 0.2  |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>6.5</b>  | 8.3  | 7.1  |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>19.1</b> | 20.2 | 19.2 |
| Eau émulsifiée | scalar   | Visual*       | >0.1 | <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>2</b>    | 2    | 2    |
| Baryum     | ppm      | ASTM D5185(m) | 0     | <b>0</b>    | <1   | 0    |
| Molybdène  | ppm      | ASTM D5185(m) | 50    | <b>57</b>   | 57   | 56   |
| Manganèse  | ppm      | ASTM D5185(m) | 0     | <b>0</b>    | <1   | <1   |
| Magnésium  | ppm      | ASTM D5185(m) | 950   | <b>933</b>  | 916  | 920  |
| Calcium    | ppm      | ASTM D5185(m) | 1050  | <b>1206</b> | 1036 | 1027 |
| Phosphore  | ppm      | ASTM D5185(m) | 995   | <b>985</b>  | 938  | 996  |
| Zinc       | ppm      | ASTM D5185(m) | 1180  | <b>1189</b> | 1147 | 1133 |
| Soufre     | ppm      | ASTM D5185(m) | 2600  | <b>2719</b> | 2351 | 2493 |
| Oxydation  | Abs/.1mm | ASTM D7414*   | >25   | <b>14.4</b> | 16.1 | 14.7 |
| Visc 100°C | cSt      | ASTM D7279(m) | 12.00 | <b>11.2</b> | 11.4 | 11.5 |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0877559  
**N° de laboratoire** : 02598649  
**Numéro unique** : 5683729  
**Analyse** : MOB 1

**Reçu** : 24 Nov 2023  
**Diagnostiqué** : 24 Nov 2023  
**Diagnostiqueur** : Kevin Marson

**MANITOU LIN TRANSPORT**  
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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.