



# RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

**385**

Composant

**Moteur diesel**

Fluid

**PETRO CANADA DURON UHP 5W30 (--- GAL)**

## RECOMMANDATION

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

| Test                | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant.    |     | Client Info |           | <b>WC0928209</b>   | WC0833125   | WC0641648   |
| Date d'échant.      |     | Client Info |           | <b>13 Mar 2024</b> | 20 Nov 2023 | 11 Dec 2021 |
| Âge d la Machine    | kms | Client Info |           | <b>906648</b>      | 890196      | 765786      |
| Âge de l'huile      | kms | Client Info |           | <b>16452</b>       | 2889        | 46510       |
| Âge du filtre       | kms | Client Info |           | <b>16452</b>       | 2889        | 46510       |
| Huile changée       |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filtre changé       |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Statut de l'échant. |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## USURE

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

|           |     |               |      |              |    |    |
|-----------|-----|---------------|------|--------------|----|----|
| Fer       | ppm | ASTM D5185(m) | >165 | <b>21</b>    | 14 | 52 |
| Chrome    | ppm | ASTM D5185(m) | >5   | <b>1</b>     | <1 | 2  |
| Nickel    | ppm | ASTM D5185(m) | >4   | <b>&lt;1</b> | <1 | <1 |
| Titane    | ppm | ASTM D5185(m) | >2   | <b>0</b>     | 0  | 0  |
| Argent    | ppm | ASTM D5185(m) | >2   | <b>0</b>     | <1 | 0  |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>5</b>     | 3  | 20 |
| Plomb     | ppm | ASTM D5185(m) | >150 | <b>&lt;1</b> | <1 | <1 |
| Cuivre    | ppm | ASTM D5185(m) | >90  | <b>45</b>    | 29 | 6  |
| Étain     | ppm | ASTM D5185(m) | >5   | <b>4</b>     | 2  | <1 |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | <1 |

## CONTAMINATION

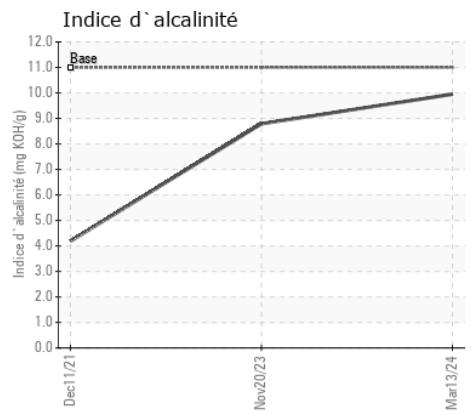
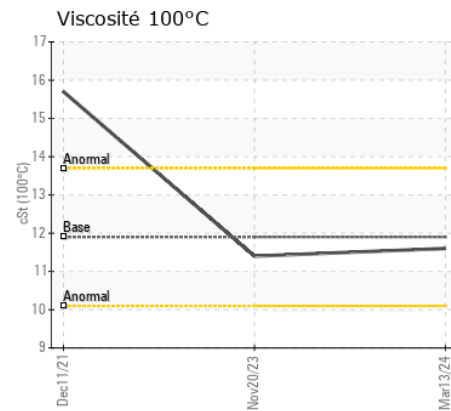
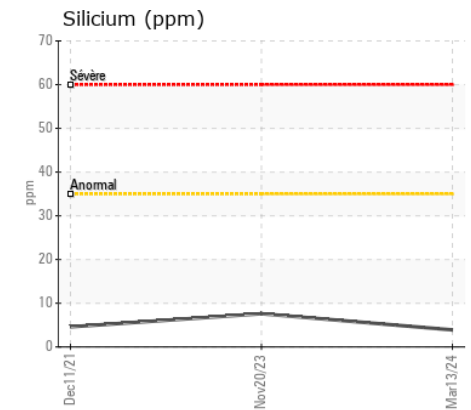
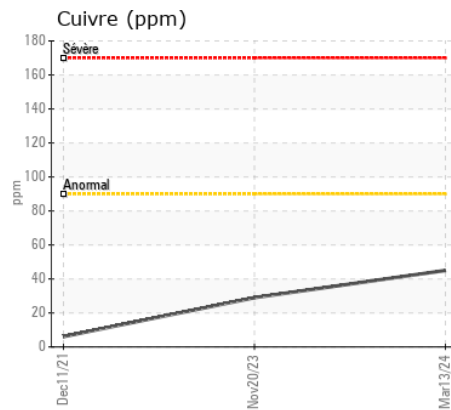
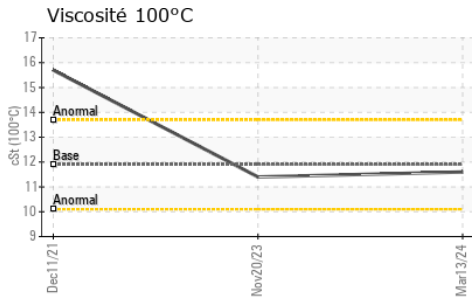
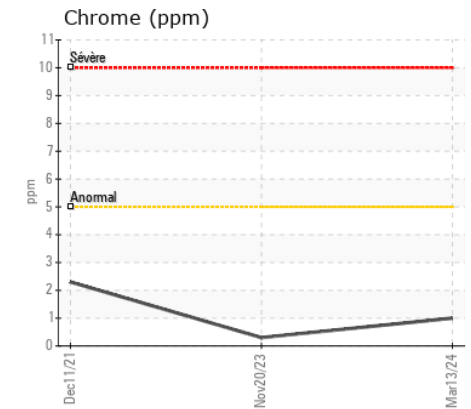
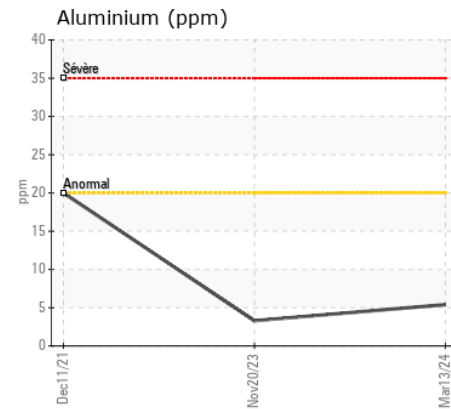
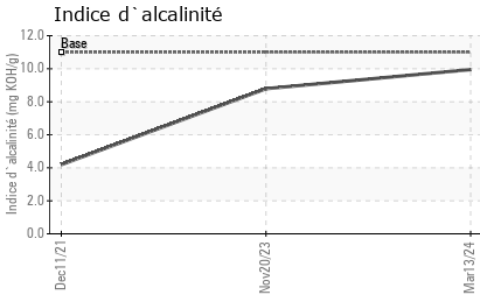
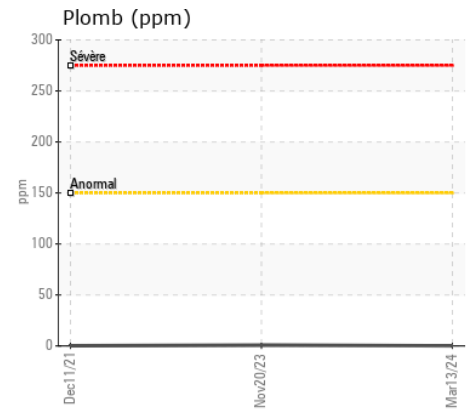
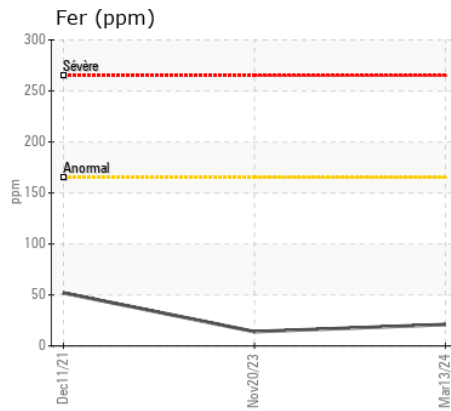
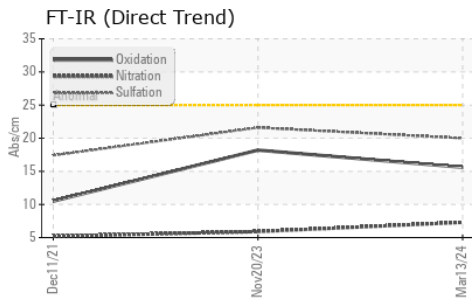
Il n'y a aucun indice de contamination dans l'huile.

|                |          |               |      |                |      |      |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium       | ppm      | ASTM D5185(m) | >35  | <b>4</b>       | 8    | 5    |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>4</b>       | 11   | 10   |
| Essence        |          | WC Method     | >3.0 | <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  | 0.0  |
| % de suie      | %        | ASTM D7844*   | >7.5 | <b>0.2</b>     | 0    | 0.2  |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>7.3</b>     | 5.9  | 5.2  |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>20.0</b>    | 21.6 | 17.4 |
| Eau émulsifiée | scalar   | Visual*       | >0.2 | <b>NEG</b>     | NEG  | NEG  |

## ÉTAT DU FLUIDE

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'état de l'huile permet d'en prolonger l'utilisation.

|                     |          |               |      |              |      |      |
|---------------------|----------|---------------|------|--------------|------|------|
| Sodium              | ppm      | ASTM D5185(m) |      | <b>2</b>     | 4    | 4    |
| Bore                | ppm      | ASTM D5185(m) | 0    | <b>10</b>    | 77   | 26   |
| Baryum              | ppm      | ASTM D5185(m) | 0    | <b>&lt;1</b> | <1   | 0    |
| Molybdène           | ppm      | ASTM D5185(m) | 64   | <b>56</b>    | 48   | 19   |
| Manganèse           | ppm      | ASTM D5185(m) | 0    | <b>&lt;1</b> | <1   | <1   |
| Magnésium           | ppm      | ASTM D5185(m) | 1160 | <b>913</b>   | 595  | 340  |
| Calcium             | ppm      | ASTM D5185(m) | 820  | <b>1129</b>  | 1459 | 2014 |
| Phosphore           | ppm      | ASTM D5185(m) | 1160 | <b>977</b>   | 954  | 1056 |
| Zinc                | ppm      | ASTM D5185(m) | 1260 | <b>1167</b>  | 1114 | 1299 |
| Soufre              | ppm      | ASTM D5185(m) | 3000 | <b>2500</b>  | 2908 | 2738 |
| Oxydation           | Abs/.1mm | ASTM D7414*   | >25  | <b>15.6</b>  | 18.2 | 10.5 |
| Indice d'alcalinité | mg KOH/g | ASTM D2896*   | 11.0 | <b>9.95</b>  | 8.79 | 4.19 |
| Visc 100°C          | cSt      | ASTM D7279(m) | 11.9 | <b>11.6</b>  | 11.4 | 15.7 |



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0928209  
**N° de laboratoire** : 02628139  
**Numéro unique** : 5761271  
**Analyse** : MOB 2

**Lachine - Transport Laberge**  
 435 rue Norman  
 Lachine, QC  
 CA H8S 1A5  
 Contact: Service Manager

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.

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F: