



Identité de la machine

**301013**

Composant

**Moteur diesel**

Fluide

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

**RECOMMENDATION**

Nous vous recommandons de vérifier le système d'injection de carburant. Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

| Test                | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant.    |     | Client Info |           | <b>PC0079961</b>   | PC0074184   | PC0073785   |
| Date d'échant.      |     | Client Info |           | <b>01 Nov 2023</b> | 29 Sep 2023 | 11 May 2023 |
| Âge d la Machine    | kms | Client Info |           | <b>1097040</b>     | 1087153     | 1051774     |
| Âge de l'huile      | kms | Client Info |           | <b>12500</b>       | 12500       | 10000       |
| Âge du filtre       | kms | Client Info |           | <b>12500</b>       | 12500       | 10000       |
| Huile changée       |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filtre changé       |     | Client Info |           | <b>Changed</b>     | N/A         | Changed     |
| Statut de l'échant. |     |             |           | <b>SEVERE</b>      | SEVERE      | SEVERE      |

**USURE**

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

|           |     |               |      |              |    |    |
|-----------|-----|---------------|------|--------------|----|----|
| Fer       | ppm | ASTM D5185(m) | >100 | <b>31</b>    | 32 | 37 |
| Chrome    | ppm | ASTM D5185(m) | >20  | <b>&lt;1</b> | 1  | 2  |
| Nickel    | ppm | ASTM D5185(m) | >4   | <b>&lt;1</b> | 0  | <1 |
| Titane    | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | <1 |
| Argent    | ppm | ASTM D5185(m) | >3   | <b>&lt;1</b> | <1 | 0  |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>2</b>     | 2  | 2  |
| Plomb     | ppm | ASTM D5185(m) | >40  | <b>4</b>     | <1 | <1 |
| Cuivre    | ppm | ASTM D5185(m) | >330 | <b>122</b>   | 2  | 2  |
| Étain     | ppm | ASTM D5185(m) | >15  | <b>&lt;1</b> | 0  | <1 |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

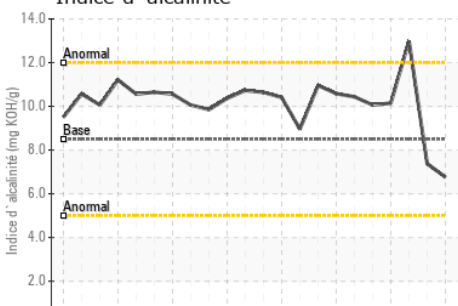
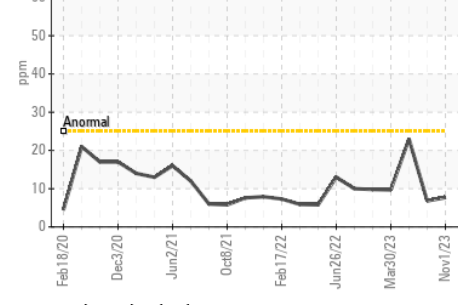
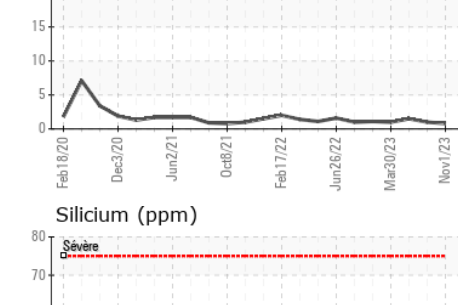
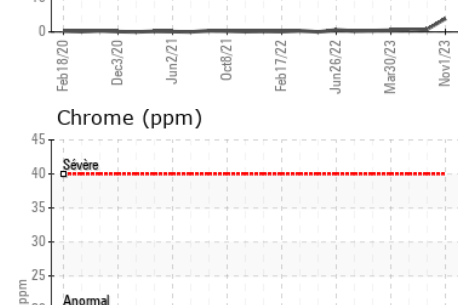
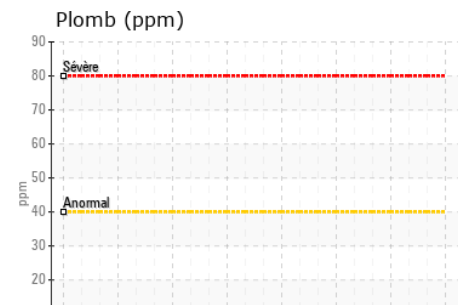
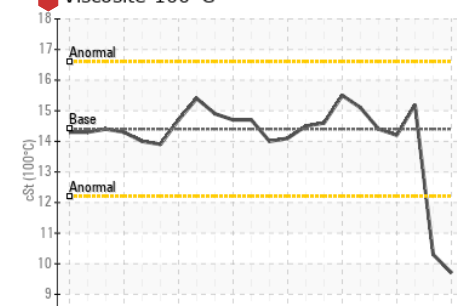
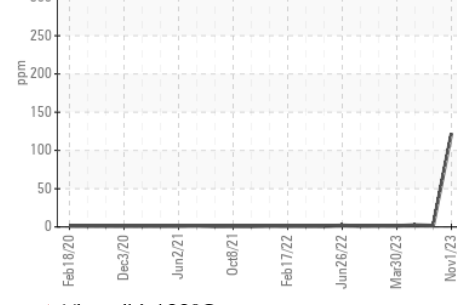
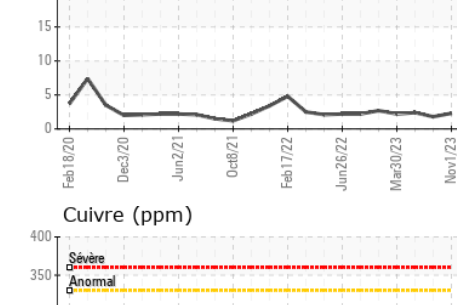
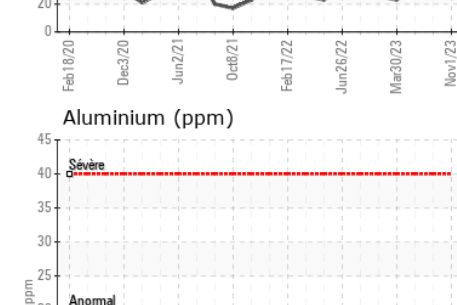
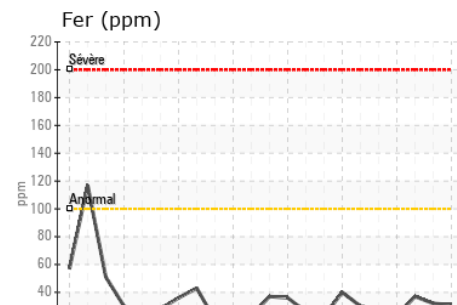
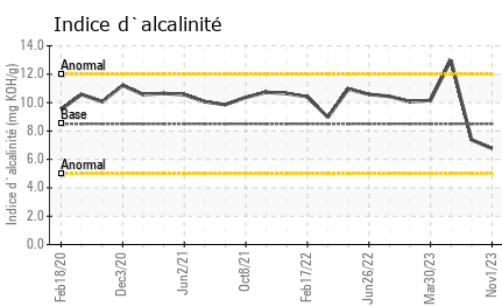
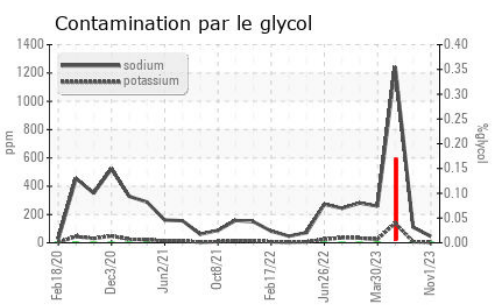
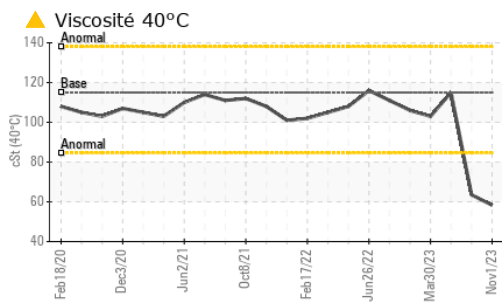
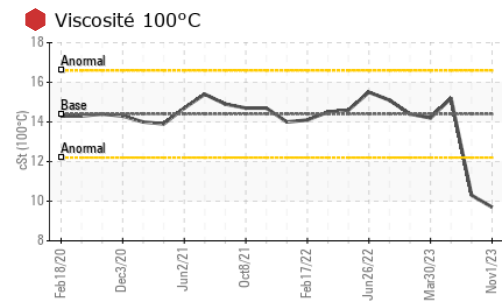
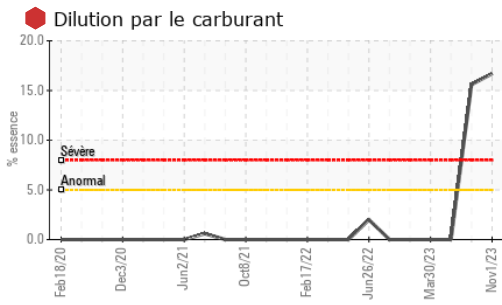
Quantité élevée de carburant dans l'huile. Les tests confirment la présence de carburant dans l'huile.

|                |          |               |      |             |      |       |
|----------------|----------|---------------|------|-------------|------|-------|
| Silicium       | ppm      | ASTM D5185(m) | >25  | <b>8</b>    | 7    | 23    |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>4</b>    | 8    | ▲ 139 |
| Essence        | %        | ASTM D7593*   | >5   | <b>16.7</b> | 15.6 | <1.0  |
| L'eau          |          | WC Method     | >0.2 | <b>NEG</b>  | NEG  | NEG   |
| Glycol         | %        | ASTM D7922*   |      | <b>0.0</b>  | 0.0  | 0.17  |
| % de suie      | %        | ASTM D7844*   | >3   | <b>1.5</b>  | 1.5  | 1.5   |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>12.9</b> | 13.2 | 16.2  |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>26.5</b> | 26.2 | 29.8  |
| 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. Il y a du carburant dans l'huile, ce qui réduit la viscosité. L'huile ne peut plus être utilisée en raison de la présence de contaminants.

|                          |          |               |      |               |        |        |
|--------------------------|----------|---------------|------|---------------|--------|--------|
| Sodium                   | ppm      | ASTM D5185(m) | >158 | <b>46</b>     | 110    | ▲ 1244 |
| Bore                     | ppm      | ASTM D5185(m) | 250  | <b>2</b>      | 3      | 51     |
| Baryum                   | ppm      | ASTM D5185(m) | 10   | <b>&lt;1</b>  | <1     | 0      |
| Molybdène                | ppm      | ASTM D5185(m) | 100  | <b>62</b>     | 64     | 83     |
| Manganèse                | ppm      | ASTM D5185(m) |      | <b>0</b>      | 0      | <1     |
| Magnésium                | ppm      | ASTM D5185(m) | 450  | <b>1021</b>   | 1027   | 1218   |
| Calcium                  | ppm      | ASTM D5185(m) | 3000 | <b>1122</b>   | 1129   | 1402   |
| Phosphore                | ppm      | ASTM D5185(m) | 1150 | <b>1016</b>   | 1034   | 1322   |
| Zinc                     | ppm      | ASTM D5185(m) | 1350 | <b>1222</b>   | 1247   | 1489   |
| Soufre                   | ppm      | ASTM D5185(m) | 4250 | <b>2054</b>   | 2271   | 2919   |
| Oxydation                | Abs/.1mm | ASTM D7414*   | >25  | <b>23.4</b>   | 23.4   | 21.5   |
| Indice d'alcalinité      | mg KOH/g | ASTM D2896*   | 8.5  | <b>6.76</b>   | 7.38   | 12.99  |
| Visc 40°C                | cSt      | ASTM D7279(m) | 115  | ▲ <b>58.3</b> | ▲ 63.5 | 115    |
| Visc 100°C               | cSt      | ASTM D7279(m) | 14.4 | ● <b>9.7</b>  | ▲ 10.3 | 15.2   |
| Indice de viscosité (VI) | Scale    | ASTM D2270*   | 126  | <b>151</b>    | 148    | 157    |



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : PC0079961  
**N° de laboratoire** : 02597466  
**Numéro unique** : 5682546  
**Analyse** : MOB 2 ( Additional Tests: Glycol, KV40, PercentFuel, VI )

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 F: (450)446-5666

*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.*