



Identité de la machine

**1214**

Composant

**Moteur diesel**

Fluide

**DIESEL ENGINE OIL SAE 15W40 (--- 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>PC0073325</b>   | PC0070901   | PC0067618   |
| Date d'échant.      |     | Client Info |           | <b>16 Jul 2023</b> | 12 Mar 2023 | 11 Jan 2023 |
| Âge d la Machine    | hrs | Client Info |           | <b>7142</b>        | 6654        | 160502      |
| 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>22</b>    | 21 | 20 |
| Chrome    | ppm | ASTM D5185(m) | >20  | <b>1</b>     | 1  | <1 |
| Nickel    | ppm | ASTM D5185(m) | >4   | <b>&lt;1</b> | <1 | <1 |
| Titane    | ppm | ASTM D5185(m) |      | <b>&lt;1</b> | <1 | <1 |
| Argent    | ppm | ASTM D5185(m) | >3   | <b>&lt;1</b> | 0  | 0  |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>6</b>     | 8  | 7  |
| Plomb     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | 0  | 0  |
| Cuivre    | ppm | ASTM D5185(m) | >330 | <b>2</b>     | 2  | 1  |
| Étain     | ppm | ASTM D5185(m) | >15  | <b>0</b>     | <1 | <1 |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

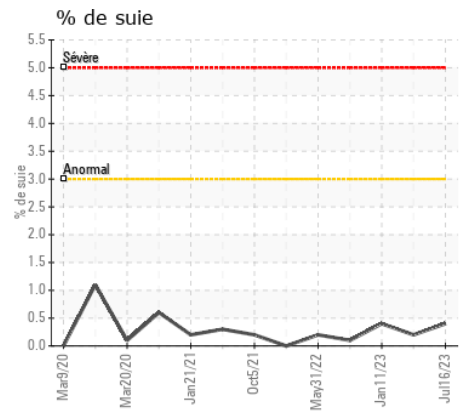
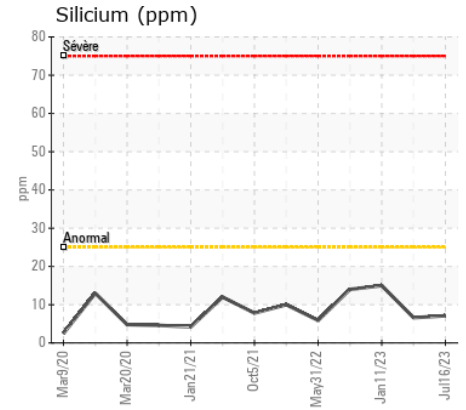
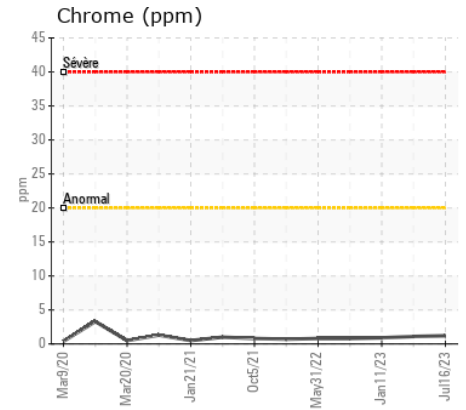
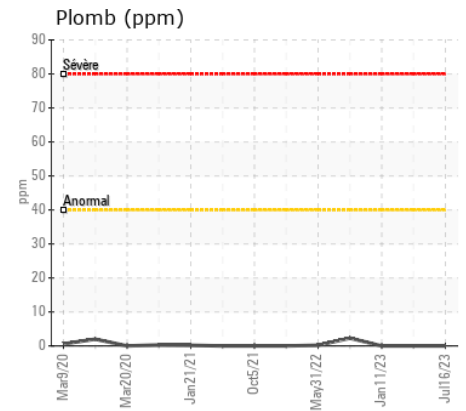
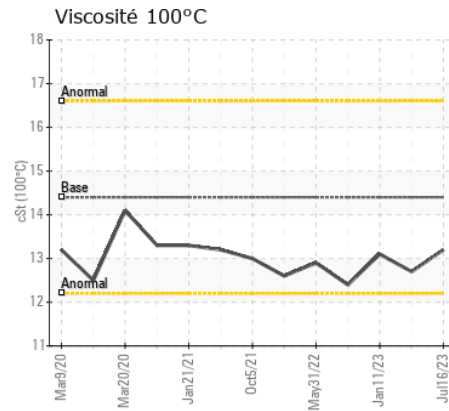
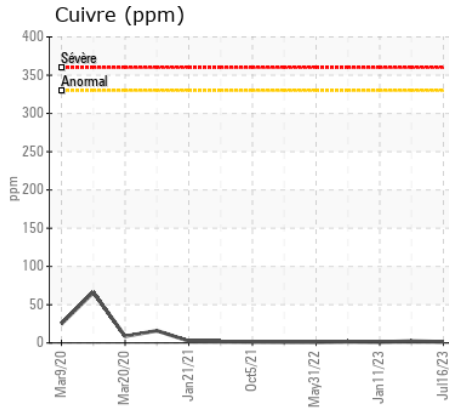
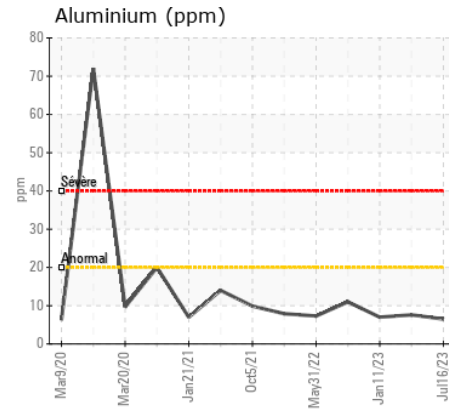
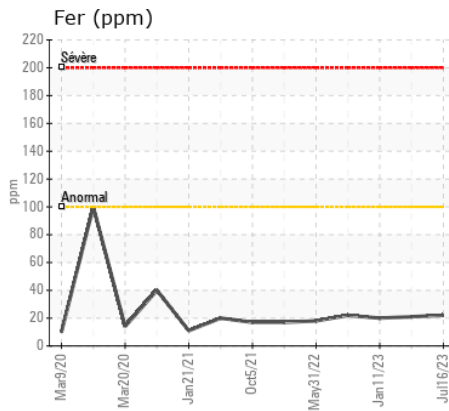
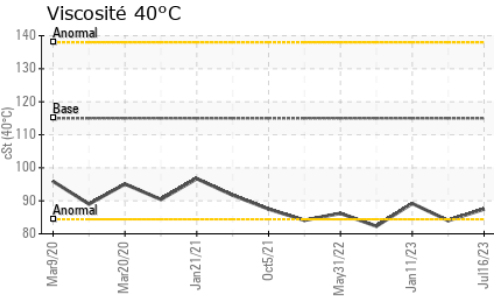
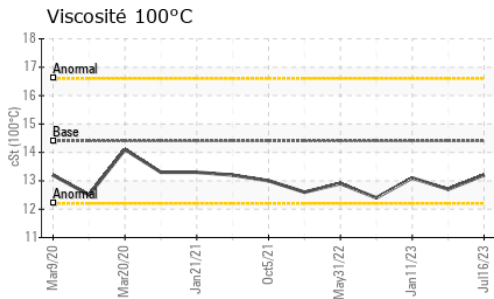
There is no indication of any contamination in the oil.

|                |          |               |      |                |      |      |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium       | ppm      | ASTM D5185(m) | >25  | <b>7</b>       | 7    | 15   |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>8</b>       | 8    | 9    |
| Essence        |          | WC Method     | >5   | <b>&lt;1.0</b> | <1.0 | <1.0 |
| Glycol         |          | WC Method     |      | <b>NEG</b>     | NEG  | NEG  |
| % de suie      | %        | ASTM D7844*   | >3   | <b>0.4</b>     | 0.2  | 0.4  |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>8.9</b>     | 8.5  | 9.3  |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>19.8</b>    | 21.0 | 21.4 |
| 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) | >158 | <b>6</b>     | 6    | 6    |
| Bore                     | ppm      | ASTM D5185(m) | 250  | <b>2</b>     | 7    | <1   |
| Baryum                   | ppm      | ASTM D5185(m) | 10   | <b>0</b>     | 0    | 0    |
| Molybdène                | ppm      | ASTM D5185(m) | 100  | <b>57</b>    | 61   | 57   |
| Manganèse                | ppm      | ASTM D5185(m) |      | <b>&lt;1</b> | <1   | <1   |
| Magnésium                | ppm      | ASTM D5185(m) | 450  | <b>953</b>   | 977  | 925  |
| Calcium                  | ppm      | ASTM D5185(m) | 3000 | <b>1059</b>  | 1198 | 1178 |
| Phosphore                | ppm      | ASTM D5185(m) | 1150 | <b>1044</b>  | 1100 | 1066 |
| Zinc                     | ppm      | ASTM D5185(m) | 1350 | <b>1169</b>  | 1217 | 1197 |
| Soufre                   | ppm      | ASTM D5185(m) | 4250 | <b>2508</b>  | 2742 | 2601 |
| Oxydation                | Abs/.1mm | ASTM D7414*   | >25  | <b>15.6</b>  | 15.1 | 16.5 |
| Visc 40°C                | cSt      | ASTM D7279(m) | 115  | <b>87.5</b>  | 84.0 | 89.2 |
| Visc 100°C               | cSt      | ASTM D7279(m) | 14.4 | <b>13.2</b>  | 12.7 | 13.1 |
| Indice de viscosité (VI) | Scale    | ASTM D2270*   | 126  | <b>151</b>   | 149  | 146  |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **LES ENTREPRISES MICHAUVILLE INC.**  
**N° d'échantillon** : PC0073325 **Reçu** : 17 Jul 2023  
**N° de laboratoire** : 02570369 **Diagnostiqué** : 17 Jul 2023  
**Numéro unique** : 5607415 **Diagnostiqueur** : Wes Davis  
**Analyse** : MOB 1 ( Additional Tests: KV40, VI )

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.

Validity of results and interpretation are based on the sample and information as supplied.

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