



Identité de la machine

**1251**

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>PC0082089</b>   | PC0078352   | PC0056555   |
| Date d'échant.      |     | Client Info |           | <b>16 Nov 2023</b> | 30 Aug 2023 | 11 Jan 2023 |
| Âge d la Machine    | hrs | Client Info |           | <b>5906</b>        | 5424        | 4639        |
| 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>5</b>     | 4  | 6  |
| Chrome    | ppm | ASTM D5185(m) | >20  | <b>&lt;1</b> | <1 | <1 |
| Nickel    | ppm | ASTM D5185(m) | >4   | <b>&lt;1</b> | 0  | <1 |
| Titane    | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |
| Argent    | ppm | ASTM D5185(m) | >3   | <b>&lt;1</b> | 0  | 0  |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>3</b>     | 2  | 3  |
| Plomb     | ppm | ASTM D5185(m) | >40  | <b>&lt;1</b> | 0  | <1 |
| Cuivre    | ppm | ASTM D5185(m) | >330 | <b>10</b>    | 10 | 23 |
| Étain     | ppm | ASTM D5185(m) | >15  | <b>&lt;1</b> | <1 | 2  |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

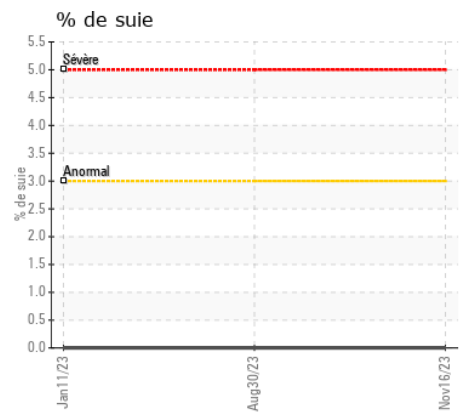
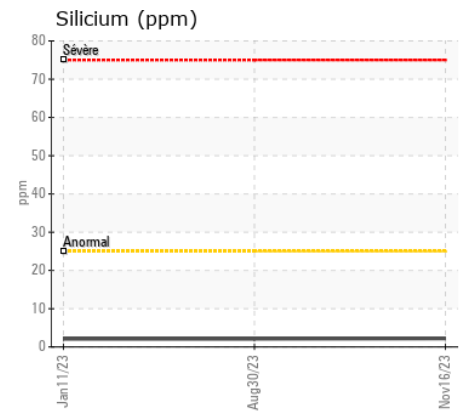
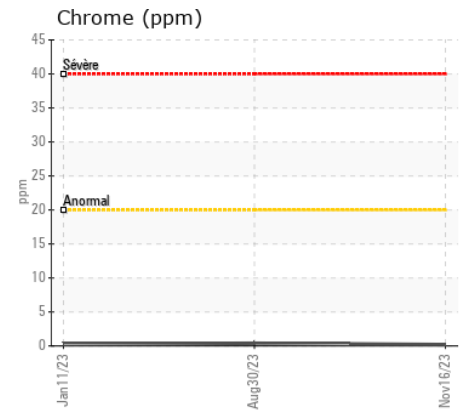
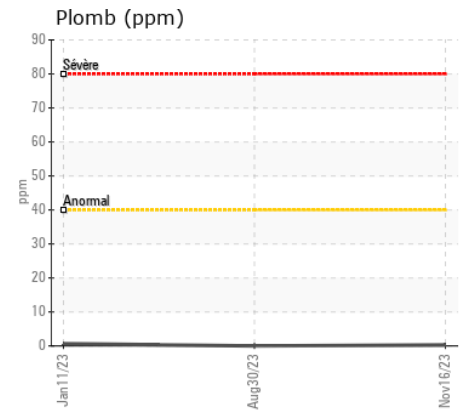
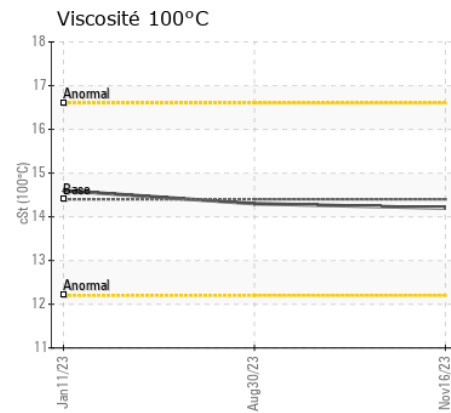
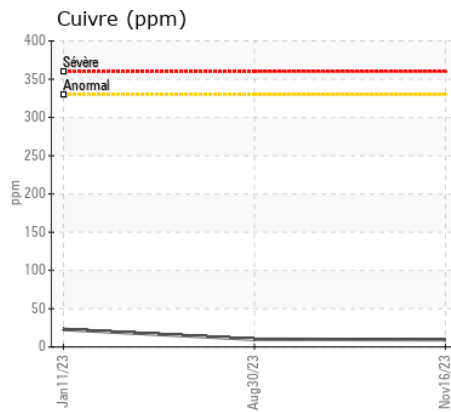
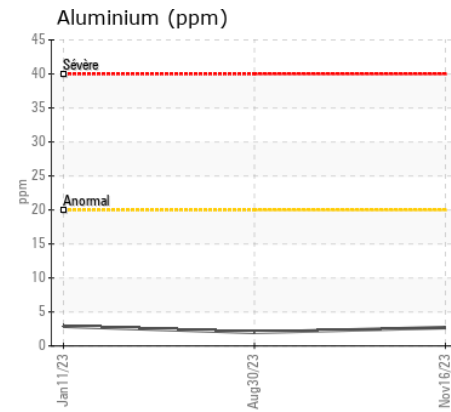
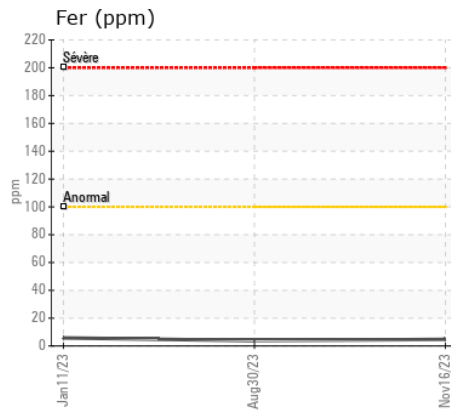
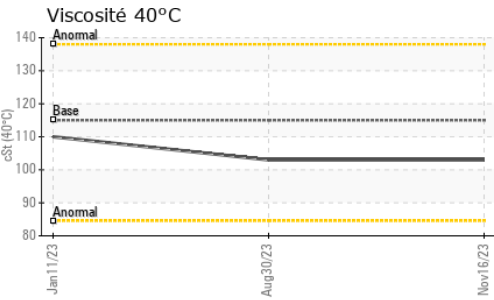
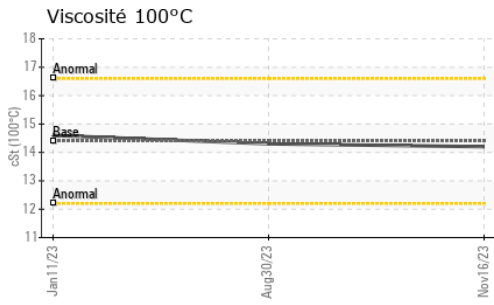
There is no indication of any contamination in the oil.

|                |          |               |      |                |      |      |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium       | ppm      | ASTM D5185(m) | >25  | <b>2</b>       | 2    | 2    |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>3</b>       | 1    | 3    |
| 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</b>       | 0    | 0    |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>6.2</b>     | 5.7  | 6.7  |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>18.7</b>    | 18.8 | 20.2 |
| 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>1</b>    | 1    | 1    |
| Bore                     | ppm      | ASTM D5185(m) | 250  | <b>1</b>    | 2    | 0    |
| Baryum                   | ppm      | ASTM D5185(m) | 10   | <b>0</b>    | 0    | 0    |
| Molybdène                | ppm      | ASTM D5185(m) | 100  | <b>59</b>   | 60   | 57   |
| Manganèse                | ppm      | ASTM D5185(m) |      | <b>0</b>    | <1   | <1   |
| Magnésium                | ppm      | ASTM D5185(m) | 450  | <b>977</b>  | 991  | 951  |
| Calcium                  | ppm      | ASTM D5185(m) | 3000 | <b>1045</b> | 1034 | 1074 |
| Phosphore                | ppm      | ASTM D5185(m) | 1150 | <b>1002</b> | 1080 | 1067 |
| Zinc                     | ppm      | ASTM D5185(m) | 1350 | <b>1203</b> | 1207 | 1178 |
| Soufre                   | ppm      | ASTM D5185(m) | 4250 | <b>2548</b> | 2630 | 2594 |
| Oxydation                | Abs/.1mm | ASTM D7414*   | >25  | <b>14.3</b> | 12.6 | 15.0 |
| Visc 40°C                | cSt      | ASTM D7279(m) | 115  | <b>103</b>  | 103  | 110  |
| Visc 100°C               | cSt      | ASTM D7279(m) | 14.4 | <b>14.2</b> | 14.3 | 14.6 |
| Indice de viscosité (VI) | Scale    | ASTM D2270*   | 126  | <b>140</b>  | 142  | 136  |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **LES ENTREPRISES MICHAUDVILLE INC.**  
**N° d'échantillon** : PC0082089 **Reçu** : 17 Nov 2023 270 RUE BRUNET  
**N° de laboratoire** : 02597034 **Diagnostiqué** : 17 Nov 2023 MONT ST-HILAIRE, QC  
**Numéro unique** : 5682114 **Diagnostiqueur** : Wes Davis CA J3H 0M6  
**Analyse** : MOB 1 ( Additional Tests: KV40, VI ) Contact: Martin Trudel  
 mtrudel@michaudville.com

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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