



# RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

**10433**

Composant

**Moteur diesel**

Fluid

**DIESEL ENGINE OIL SAE 5W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 5W40. Please confirm.  
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>PC0084377</b>   | PC0083492   | ---      |
| Date d'échant.      |     | Client Info |           | <b>26 Feb 2024</b> | 12 Feb 2024 | ---      |
| Âge d la Machine    | kms | Client Info |           | <b>19868</b>       | 19137       | ---      |
| Âge de l'huile      | kms | Client Info |           | <b>0</b>           | 0           | ---      |
| Âge du filtre       | kms | Client Info |           | <b>0</b>           | 0           | ---      |
| Huile changée       |     | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Filtre changé       |     | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Statut de l'échant. |     |             |           | <b>NORMAL</b>      | ABNORMAL    | ---      |

## USURE

Metal levels are typical for a new component breaking in.

|           |     |               |      |              |    |     |
|-----------|-----|---------------|------|--------------|----|-----|
| Fer       | ppm | ASTM D5185(m) | >100 | <b>13</b>    | 27 | --- |
| Chrome    | ppm | ASTM D5185(m) | >20  | <b>2</b>     | 3  | --- |
| Nickel    | ppm | ASTM D5185(m) | >4   | <b>&lt;1</b> | <1 | --- |
| Titane    | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | --- |
| Argent    | ppm | ASTM D5185(m) | >3   | <b>&lt;1</b> | 2  | --- |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>3</b>     | 2  | --- |
| Plomb     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | <1 | --- |
| Cuivre    | ppm | ASTM D5185(m) | >330 | <b>1</b>     | 6  | --- |
| Étain     | ppm | ASTM D5185(m) | >15  | <b>0</b>     | 0  | --- |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | --- |

## CONTAMINATION

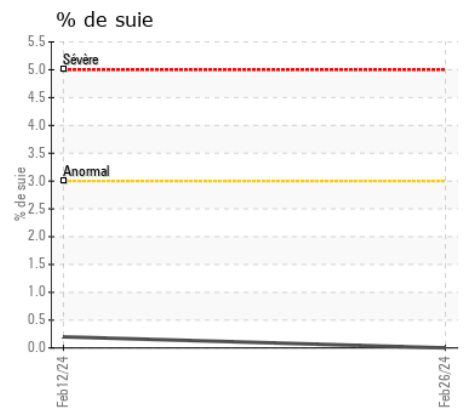
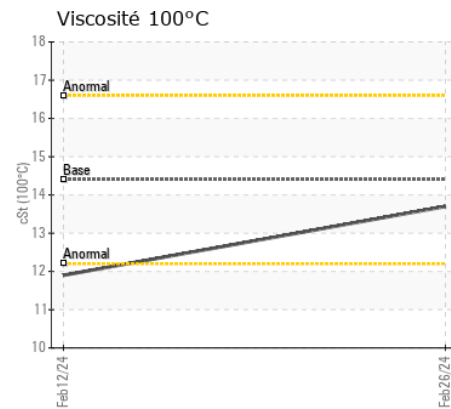
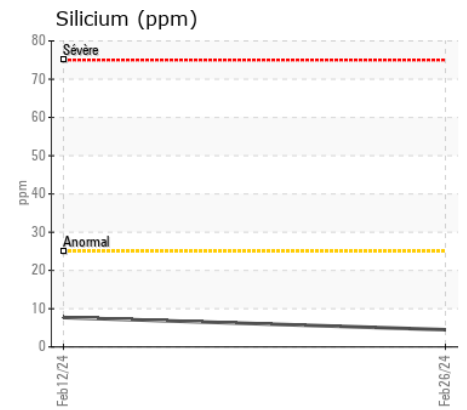
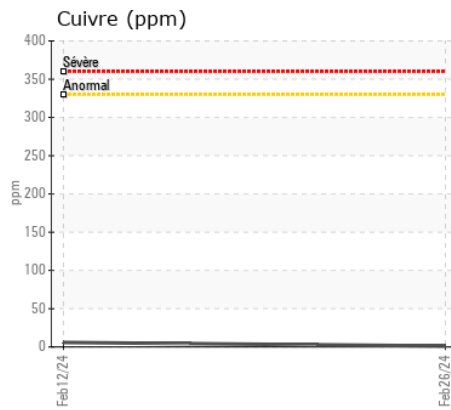
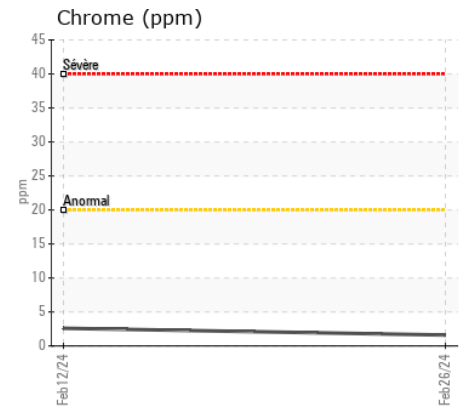
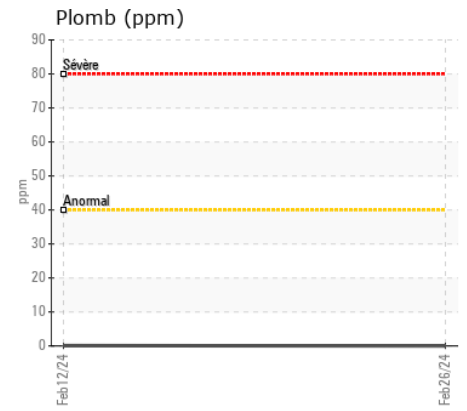
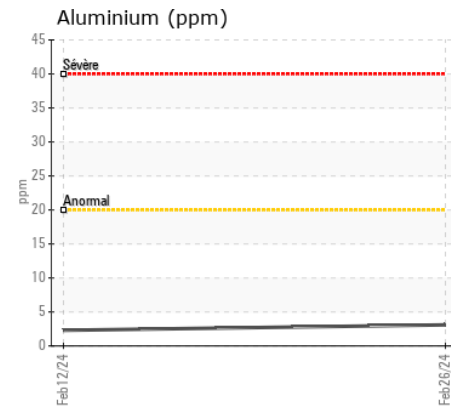
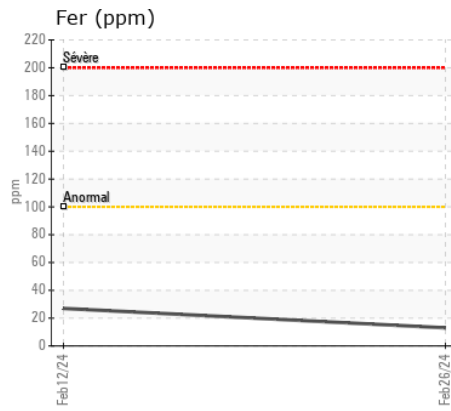
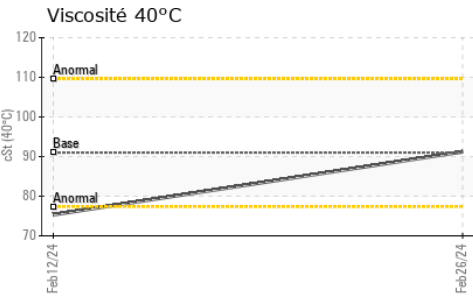
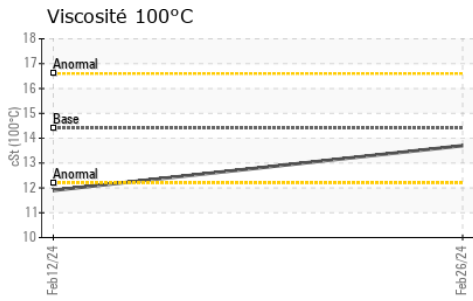
There is no indication of any contamination in the oil.

|                |          |               |      |                |       |     |
|----------------|----------|---------------|------|----------------|-------|-----|
| Silicium       | ppm      | ASTM D5185(m) | >25  | <b>4</b>       | 8     | --- |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>&lt;1</b>   | 2     | --- |
| Essence        |          | WC Method     | >5   | <b>&lt;1.0</b> | ▲ 4.9 | --- |
| L'eau          |          | WC Method     | >0.2 | <b>NEG</b>     | NEG   | --- |
| Glycol         |          | WC Method     |      | <b>NEG</b>     | NEG   | --- |
| % de suie      | %        | ASTM D7844*   | >3   | <b>0</b>       | 0.2   | --- |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>5.1</b>     | 8.2   | --- |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>18.3</b>    | 21.1  | --- |
| Eau émulsifiée | scalar   | Visual*       | >0.2 | <b>NEG</b>     | NEG   | --- |

## ÉTAT DU FLUIDE

The condition of the oil is acceptable for the time in service.

|                          |          |               |      |             |        |     |
|--------------------------|----------|---------------|------|-------------|--------|-----|
| Sodium                   | ppm      | ASTM D5185(m) | >44  | <b>1</b>    | 2      | --- |
| Bore                     | ppm      | ASTM D5185(m) | 250  | <b>2</b>    | 6      | --- |
| Baryum                   | ppm      | ASTM D5185(m) | 10   | <b>0</b>    | <1     | --- |
| Molybdène                | ppm      | ASTM D5185(m) | 100  | <b>54</b>   | 47     | --- |
| Manganèse                | ppm      | ASTM D5185(m) |      | <b>0</b>    | 1      | --- |
| Magnésium                | ppm      | ASTM D5185(m) | 450  | <b>917</b>  | 855    | --- |
| Calcium                  | ppm      | ASTM D5185(m) | 3000 | <b>1058</b> | 1158   | --- |
| Phosphore                | ppm      | ASTM D5185(m) | 1150 | <b>1001</b> | 979    | --- |
| Zinc                     | ppm      | ASTM D5185(m) | 1350 | <b>1149</b> | 1133   | --- |
| Soufre                   | ppm      | ASTM D5185(m) | 4250 | <b>2757</b> | 2648   | --- |
| Oxydation                | Abs/.1mm | ASTM D7414*   | >25  | <b>13.8</b> | 15.9   | --- |
| Visc 40°C                | cSt      | ASTM D7279(m) | 91   | <b>91.2</b> | ▲ 75.3 | --- |
| Visc 100°C               | cSt      | ASTM D7279(m) | 14.4 | <b>13.7</b> | 11.9   | --- |
| Indice de viscosité (VI) | Scale    | ASTM D2270*   | 164  | <b>152</b>  | 153    | --- |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**N° d'échantillon** : PC0084377

**N° de laboratoire** : 02618277

**Numéro unique** : 5735387

**Analyse** : MOB 1 ( Additional Tests: KV40, VI )

**Reçu** : 27 Feb 2024

**Tested** : 27 Feb 2024

**Diagnostiqué** : 27 Feb 2024 - Wes Davis

**LES ENTREPRISES MICHAUDVILLE INC.**

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MONT ST-HILAIRE, QC

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T:

F:

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.