



# RAPPORT D'ANALYSE D'HUILE

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

Secteur  
**MICHAUDVILLE**  
Identité de la machine  
**5031**

Composant  
**Moteur diesel**  
Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- 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>PC0084433</b>   | PC0078413   | PC0067126   |
| Date d'échant.      |     | Client Info |           | <b>26 Feb 2024</b> | 13 Sep 2023 | 11 Jan 2023 |
| Âge d la Machine    | hrs | Client Info |           | <b>4415</b>        | 4005        | 3671        |
| 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>16</b>    | 20    | 36   |
| 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>0</b>     | 0     | 0    |
| Aluminium   | ppm    | ASTM D5185(m) | >20  | <b>7</b>     | 7     | 14   |
| Plomb       | ppm    | ASTM D5185(m) | >40  | <b>0</b>     | 0     | 0    |
| Cuivre      | ppm    | ASTM D5185(m) | >330 | <b>1</b>     | 1     | 2    |
| Étain       | ppm    | ASTM D5185(m) | >15  | <b>0</b>     | 0     | 0    |
| Vanadium    | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0     | 0    |
| Métal blanc | scalar | Visual*       | NONE | <b>NONE</b>  | VLITE | NONE |
| Bronze      | scalar | Visual*       | NONE | <b>NONE</b>  | NONE  | NONE |

## CONTAMINATION

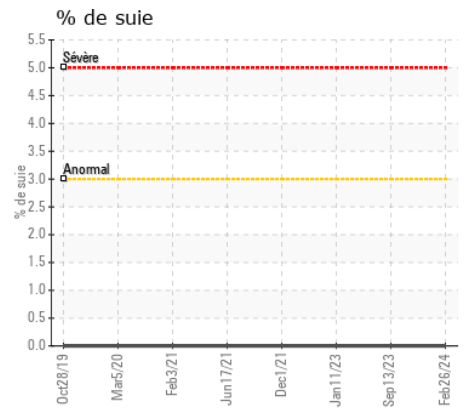
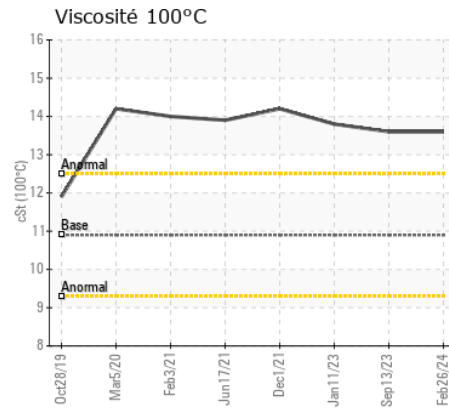
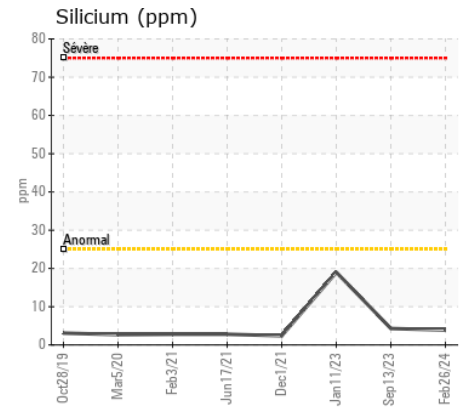
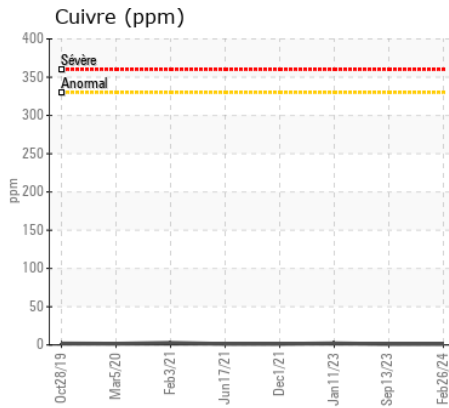
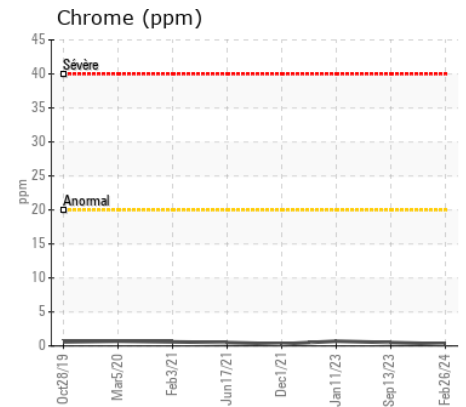
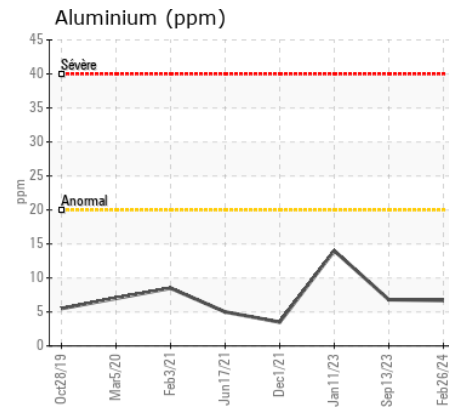
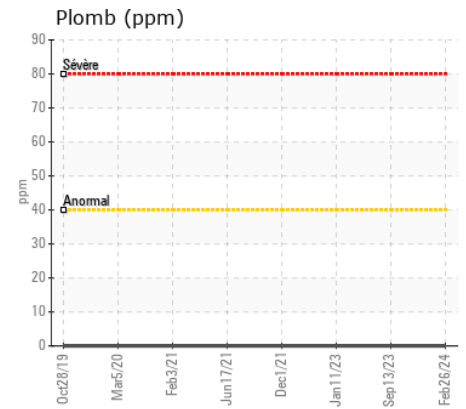
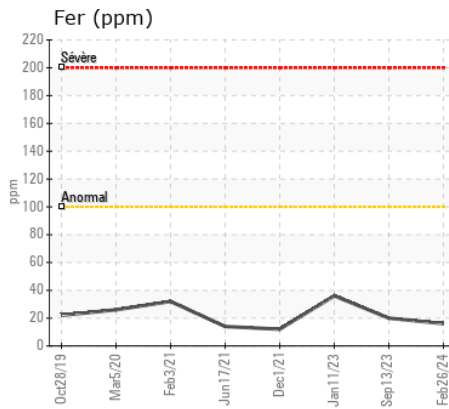
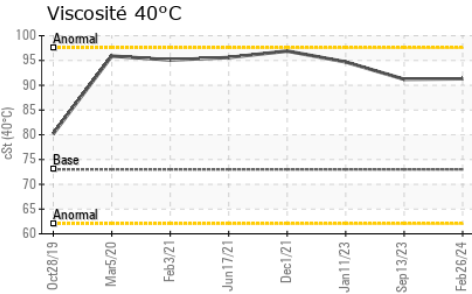
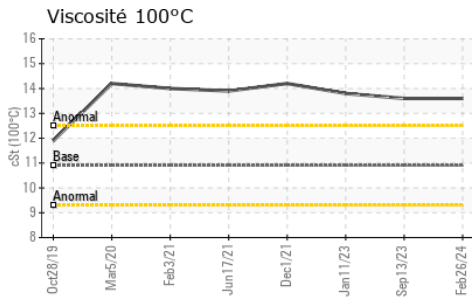
There is no indication of any contamination in the oil.

|                |          |               |       |                |       |       |
|----------------|----------|---------------|-------|----------------|-------|-------|
| Silicium       | ppm      | ASTM D5185(m) | >25   | <b>4</b>       | 4     | 19    |
| Potassium      | ppm      | ASTM D5185(m) | >20   | <b>1</b>       | <1    | 1     |
| Essence        |          | WC Method     | >5    | <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   | NEG   |
| % de suie      | %        | ASTM D7844*   | >3    | <b>0</b>       | 0     | 0     |
| Nitration      | Abs/cm   | ASTM D7624*   | >20   | <b>6.2</b>     | 6.1   | 7.2   |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30   | <b>17.5</b>    | 17.4  | 19.2  |
| Limon          | scalar   | Visual*       | NONE  | <b>NONE</b>    | NONE  | NONE  |
| Débris         | scalar   | Visual*       | NONE  | <b>NONE</b>    | VLITE | NONE  |
| Saleté         | scalar   | Visual*       | NONE  | <b>VLITE</b>   | NONE  | VLITE |
| Apparence      | scalar   | Visual*       | NORML | <b>NORML</b>   | NORML | NORML |
| Odeur          | scalar   | Visual*       | NORML | <b>NORML</b>   | NORML | NORML |
| 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) |      | <b>1</b>    | 2    | 2    |
| Bore                     | ppm      | ASTM D5185(m) | 250  | <b>1</b>    | 4    | 1    |
| Baryum                   | ppm      | ASTM D5185(m) | 10   | <b>0</b>    | 0    | 0    |
| Molybdène                | ppm      | ASTM D5185(m) | 100  | <b>56</b>   | 56   | 56   |
| Manganèse                | ppm      | ASTM D5185(m) |      | <b>0</b>    | <1   | <1   |
| Magnésium                | ppm      | ASTM D5185(m) | 450  | <b>921</b>  | 925  | 905  |
| Calcium                  | ppm      | ASTM D5185(m) | 3000 | <b>1094</b> | 1095 | 1103 |
| Phosphore                | ppm      | ASTM D5185(m) | 1150 | <b>1001</b> | 1063 | 1066 |
| Zinc                     | ppm      | ASTM D5185(m) | 1350 | <b>1154</b> | 1173 | 1198 |
| Soufre                   | ppm      | ASTM D5185(m) | 4250 | <b>2736</b> | 2621 | 2657 |
| Oxydation                | Abs/.1mm | ASTM D7414*   | >25  | <b>13.5</b> | 13.4 | 14.7 |
| Visc 40°C                | cSt      | ASTM D7279(m) | 73   | <b>91.3</b> | 91.2 | 94.7 |
| Visc 100°C               | cSt      | ASTM D7279(m) | 10.9 | <b>13.6</b> | 13.6 | 13.8 |
| Indice de viscosité (VI) | Scale    | ASTM D2270*   | 138  | <b>150</b>  | 151  | 148  |



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : PC0084433  
**N° de laboratoire** : 02618283  
**Numéro unique** : 5735393  
**Analyse** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**LES ENTREPRISES MICHAUVILLE INC.**  
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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.