



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

Identité de la machine

**1215**

Composant

**Moteur diesel**

Fluid

**DIESEL ENGINE OIL SAE 5W40 (--- 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>PC0083700</b>   | PC0077402   | PC0075990   |
| Date d'échant.      |     | Client Info |           | <b>21 Jan 2024</b> | 17 Oct 2023 | 06 Jul 2023 |
| Âge d la Machine    | hrs | Client Info |           | <b>8072</b>        | 7607        | 7123        |
| 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>32</b>    | 32 | 24 |
| 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>0</b>     | 0  | <1 |
| Argent    | ppm | ASTM D5185(m) | >3   | <b>0</b>     | <1 | <1 |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>10</b>    | 11 | 11 |
| Plomb     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | <1 | 0  |
| Cuivre    | ppm | ASTM D5185(m) | >330 | <b>5</b>     | 2  | 2  |
| Étain     | ppm | ASTM D5185(m) | >15  | <b>0</b>     | 0  | 0  |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

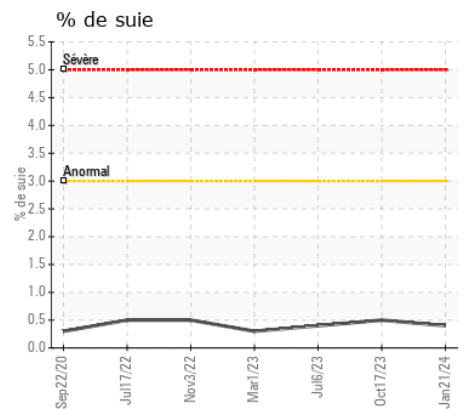
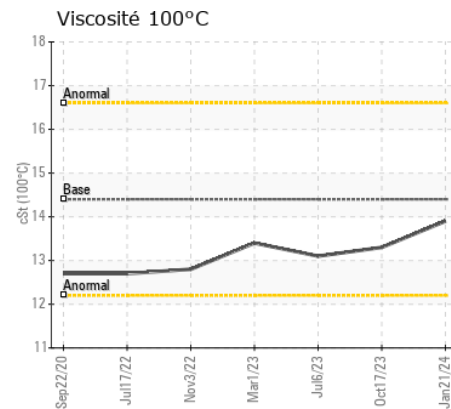
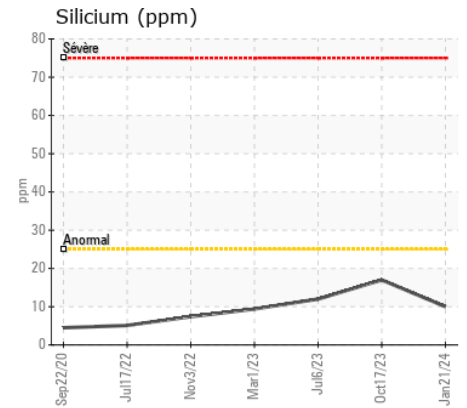
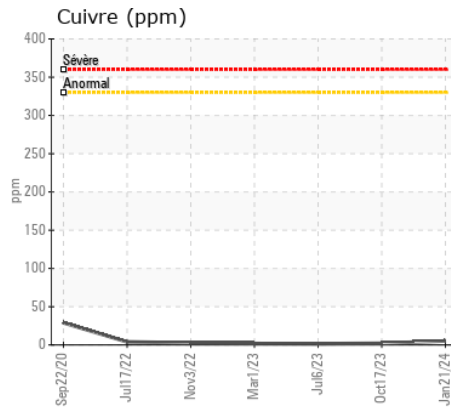
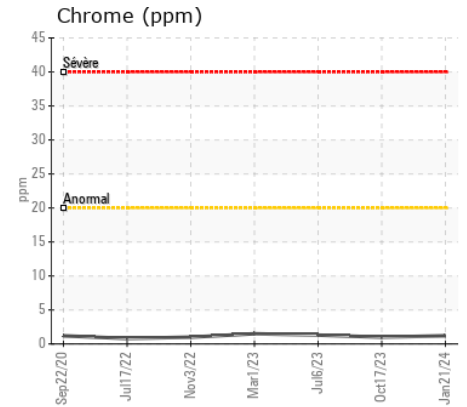
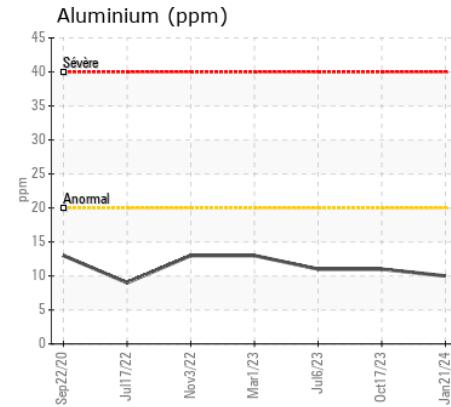
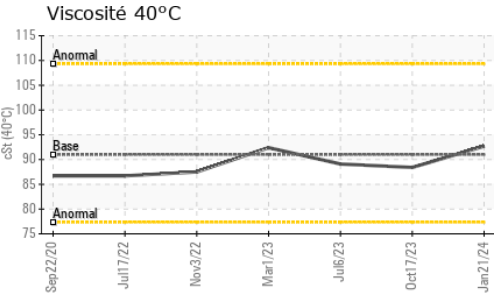
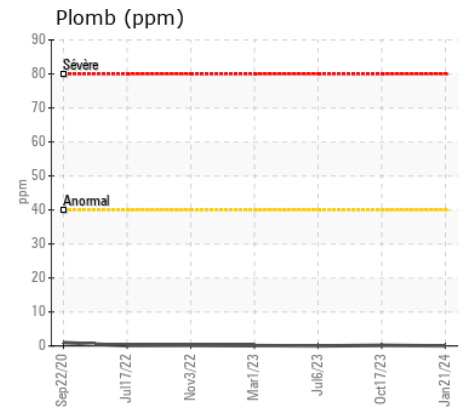
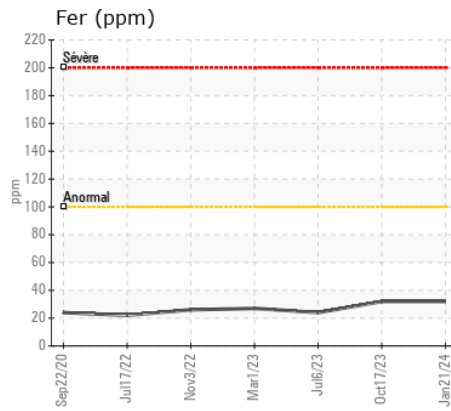
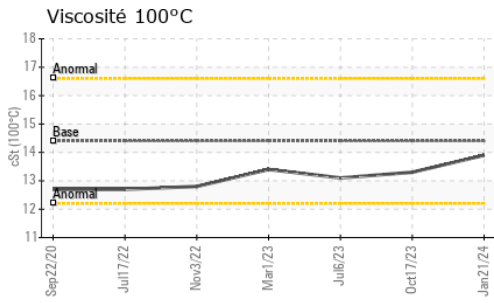
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

|                |          |               |      |                |      |      |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium       | ppm      | ASTM D5185(m) | >25  | <b>10</b>      | 17   | 12   |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>19</b>      | 21   | 17   |
| 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>0.4</b>     | 0.5  | 0.4  |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>8.2</b>     | 10.0 | 9.5  |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>21.2</b>    | 20.8 | 19.7 |
| 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) | >44  | <b>4</b>    | 8    | 7    |
| Bore                     | ppm      | ASTM D5185(m) | 250  | <b>1</b>    | 1    | 1    |
| Baryum                   | ppm      | ASTM D5185(m) | 10   | <b>0</b>    | <1   | 0    |
| Molybdène                | ppm      | ASTM D5185(m) | 100  | <b>56</b>   | 58   | 59   |
| Manganèse                | ppm      | ASTM D5185(m) |      | <b>0</b>    | 0    | <1   |
| Magnésium                | ppm      | ASTM D5185(m) | 450  | <b>914</b>  | 947  | 969  |
| Calcium                  | ppm      | ASTM D5185(m) | 3000 | <b>1192</b> | 1104 | 1115 |
| Phosphore                | ppm      | ASTM D5185(m) | 1150 | <b>1020</b> | 1001 | 1081 |
| Zinc                     | ppm      | ASTM D5185(m) | 1350 | <b>1183</b> | 1203 | 1204 |
| Soufre                   | ppm      | ASTM D5185(m) | 4250 | <b>2713</b> | 2480 | 2492 |
| Oxydation                | Abs/.1mm | ASTM D7414*   | >25  | <b>16.8</b> | 17.1 | 16.2 |
| Visc 40°C                | cSt      | ASTM D7279(m) | 91   | <b>92.7</b> | 88.4 | 89.1 |
| Visc 100°C               | cSt      | ASTM D7279(m) | 14.4 | <b>13.9</b> | 13.3 | 13.1 |
| Indice de viscosité (VI) | Scale    | ASTM D2270*   | 164  | <b>153</b>  | 151  | 146  |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUDVILLE INC.  
**N° d'échantillon** : PC0083700 **Reçu** : 22 Jan 2024  
**N° de laboratoire** : 02610217 **Diagnostiqué** : 22 Jan 2024  
**Numéro unique** : 5711303 **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.

La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.

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