



| | |
|----------------|----------------|
| USURE | ANORMAL |
| CONTAMINATION | NORMAL |
| ÉTAT DU FLUIDE | NORMAL |

Identité de la machine

5016

Composant

Moteur diesel

Fluid

DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant. | | Client Info | | PC0083540 | PC0078458 | PC0071019 |
| Date d'échant. | | Client Info | | 12 Mar 2024 | 30 Aug 2023 | 08 Aug 2023 |
| Âge d la Machine | hrs | Client Info | | 10700 | 10311 | 10279 |
| Âge de l'huile | hrs | Client Info | | 0 | 0 | 0 |
| Âge du filtre | hrs | Client Info | | 0 | 0 | 0 |
| Huile changée | | Client Info | | N/A | N/A | N/A |
| Filtre changé | | Client Info | | N/A | N/A | N/A |
| Statut de l'échant. | | | | ABNORMAL | NORMAL | ABNORMAL |

USURE

Aluminum ppm levels are abnormal. Piston wear is indicated.

| | | | | | | |
|-----------|-----|---------------|------|--------------|----|-------------|
| Fer | ppm | ASTM D5185(m) | >100 | 27 | 9 | 26 |
| Chrome | ppm | ASTM D5185(m) | >20 | 1 | <1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | 0 | 0 |
| Titane | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Argent | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Aluminium | ppm | ASTM D5185(m) | >20 | ▲ 35 | 10 | ▲ 33 |
| Plomb | ppm | ASTM D5185(m) | >40 | 0 | 0 | 0 |
| Cuivre | ppm | ASTM D5185(m) | >330 | 3 | <1 | 3 |
| Étain | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

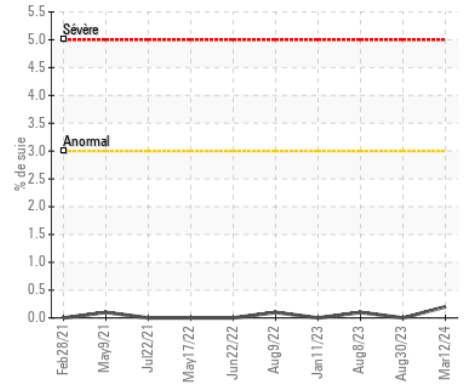
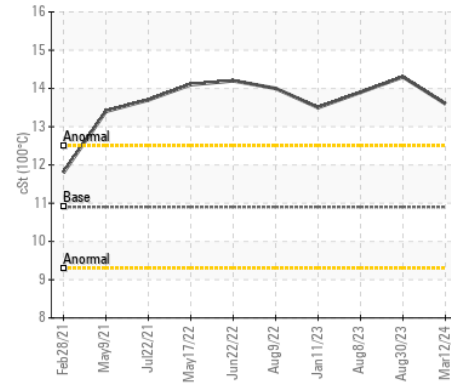
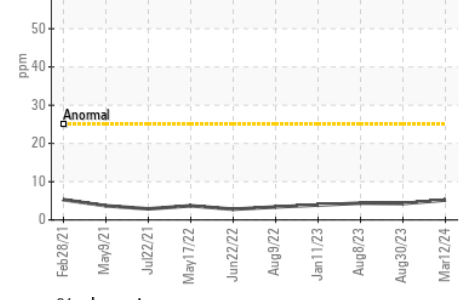
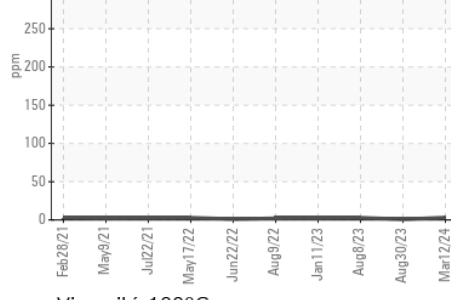
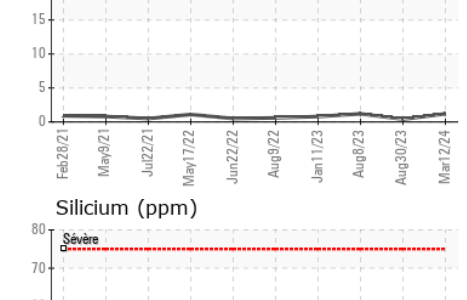
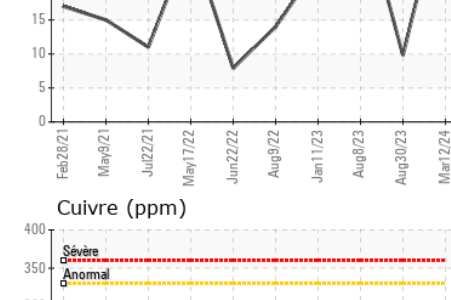
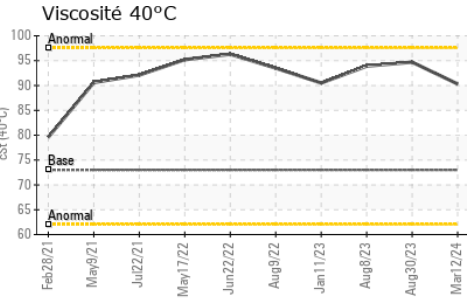
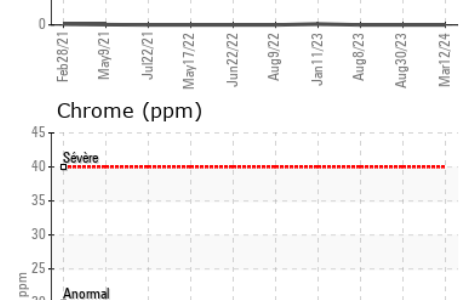
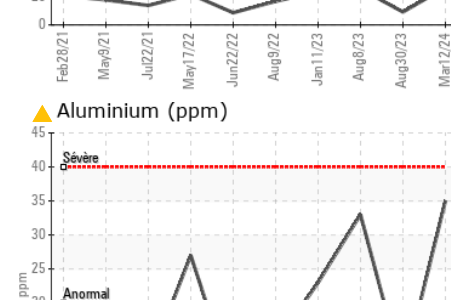
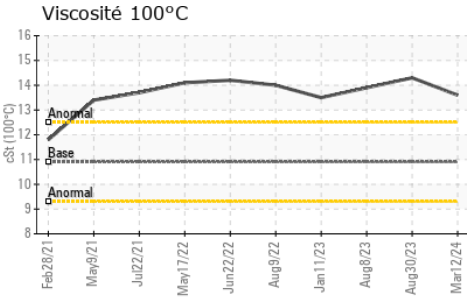
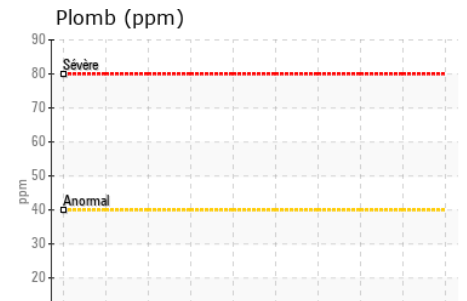
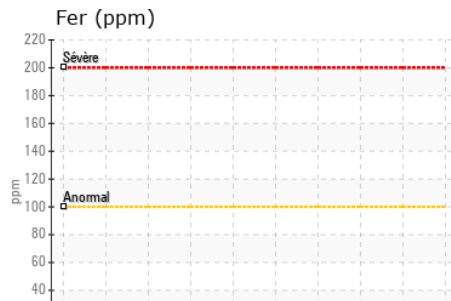
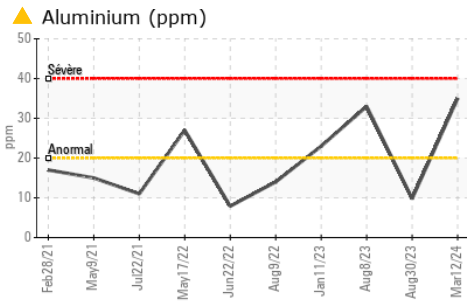
There is no indication of any contamination in the oil.

| | | | | | | |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium | ppm | ASTM D5185(m) | >25 | 5 | 4 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | <1 | 2 |
| Essence | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| L'eau | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| % de suie | % | ASTM D7844* | >3 | 0.2 | 0 | 0.1 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.3 | 5.1 | 7.1 |
| Sulfatation | Abs/.1mm | ASTM D7415* | >30 | 18.0 | 19.0 | 18.5 |
| Eau émulsifiée | scalar | Visual* | >0.2 | NEG | NEG | NEG |

ÉTAT DU FLUIDE

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

| | | | | | | |
|--------------------------|----------|---------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 6 | 2 | 3 |
| Bore | ppm | ASTM D5185(m) | 250 | 2 | 2 | 2 |
| Baryum | ppm | ASTM D5185(m) | 10 | 0 | 0 | 0 |
| Molybdène | ppm | ASTM D5185(m) | 100 | 58 | 55 | 56 |
| Manganèse | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Magnésium | ppm | ASTM D5185(m) | 450 | 926 | 932 | 934 |
| Calcium | ppm | ASTM D5185(m) | 3000 | 1102 | 1080 | 1058 |
| Phosphore | ppm | ASTM D5185(m) | 1150 | 1023 | 1050 | 1045 |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1190 | 1160 | 1164 |
| Soufre | ppm | ASTM D5185(m) | 4250 | 2791 | 2641 | 2564 |
| Oxydation | Abs/.1mm | ASTM D7414* | >25 | 14.1 | 13.0 | 14.1 |
| Visc 40°C | cSt | ASTM D7279(m) | 73 | 90.3 | 94.7 | 93.9 |
| Visc 100°C | cSt | ASTM D7279(m) | 10.9 | 13.6 | 14.3 | 13.9 |
| Indice de viscosité (VI) | Scale | ASTM D2270* | 138 | 152 | 155 | 151 |



ISO 17025:2017
Accredited
Laboratory

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

N° d'échantillon : PC0083540

N° de laboratoire : 02621727

Numéro unique : 5746846

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

Reçu : 13 Mar 2024

Tested : 13 Mar 2024

Diagnostiqué : 13 Mar 2024 - Kevin Marson

LES ENTREPRISES MICHAUDVILLE INC.

270 RUE BRUNET

MONT ST-HILAIRE, QC

CA J3H 0M6

Contact: Martin Trudel

mtrudel@michaudville.com

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.