



RAPPORT D'ANALYSE D'HUILE

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

Secteur
MICHAUDVILLE
Identité de la machine
1201

Composant
Moteur diesel
Fluide
PETRO CANADA DURON SHP 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 | | PC0071946 | PC0072112 | PC0070793 |
| Date d'échant. | | Client Info | | 17 Oct 2023 | 04 Jun 2023 | 21 Feb 2023 |
| Âge d la Machine | hrs | Client Info | | 12194 | 11745 | 11280 |
| 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. | | | | NORMAL | NORMAL | NORMAL |

USURE

All component wear rates are normal.

| | | | | | | |
|-----------|-----|---------------|------|--------------|----|----|
| Fer | ppm | ASTM D5185(m) | >100 | 8 | 4 | 3 |
| Chrome | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | 0 | 0 |
| Titane | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Argent | ppm | ASTM D5185(m) | >3 | <1 | 0 | 0 |
| Aluminium | ppm | ASTM D5185(m) | >20 | 3 | 2 | 2 |
| Plomb | ppm | ASTM D5185(m) | >40 | <1 | <1 | 0 |
| Cuivre | ppm | ASTM D5185(m) | >330 | 1 | <1 | <1 |
| Étain | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

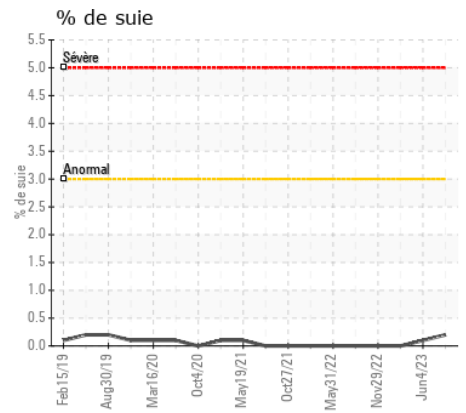
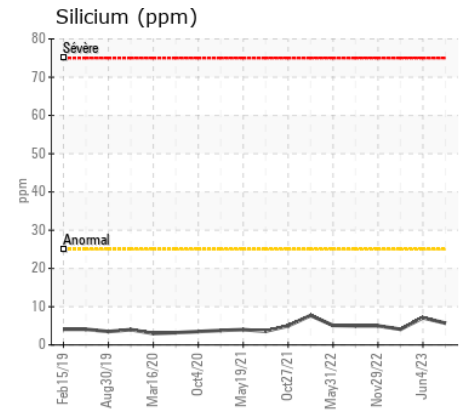
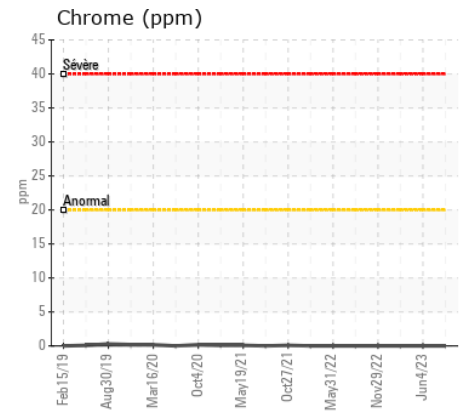
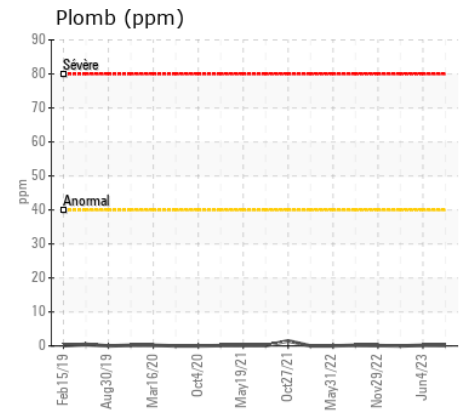
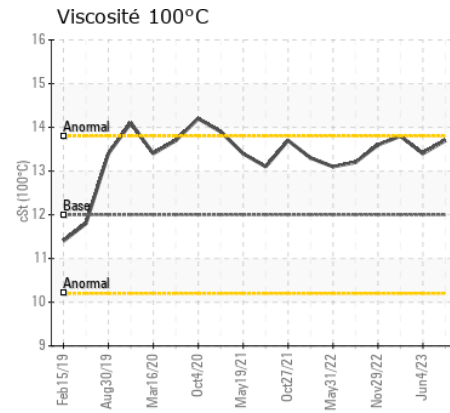
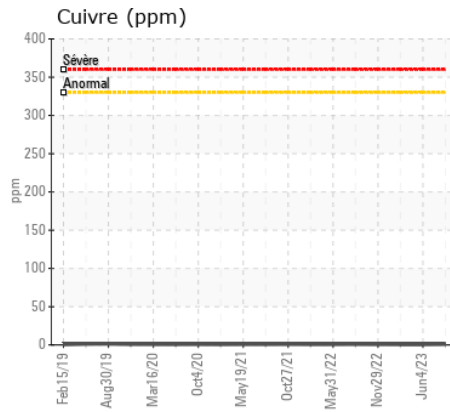
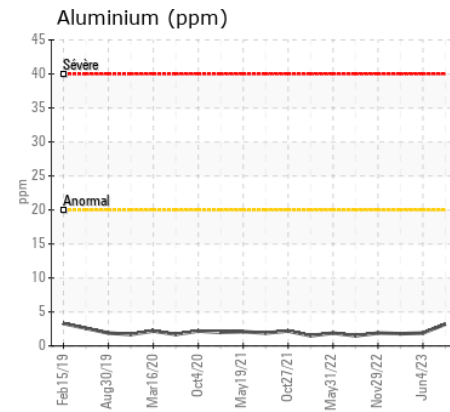
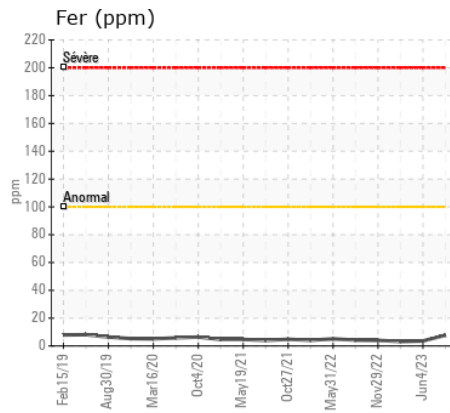
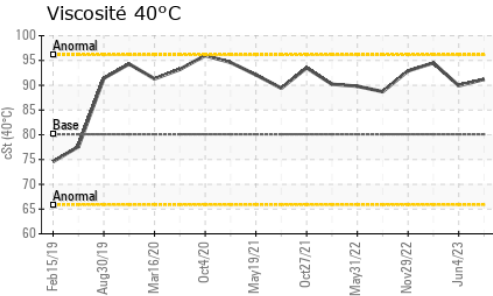
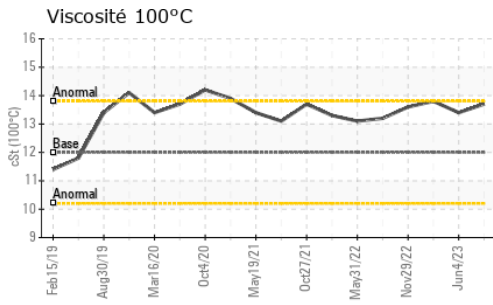
There is no indication of any contamination in the oil.

| | | | | | | |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium | ppm | ASTM D5185(m) | >25 | 6 | 7 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 3 | 1 | <1 |
| Essence | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Glycol | | WC Method | | NEG | NEG | NEG |
| % de suie | % | ASTM D7844* | >3 | 0.2 | 0.1 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.4 | 7.0 | 7.3 |
| Sulfatation | Abs/.1mm | ASTM D7415* | >30 | 19.8 | 18.7 | 20.2 |
| Eau émulsifiée | scalar | Visual* | >0.2 | NEG | NEG | NEG |

ÉTAT DU FLUIDE

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

| | | | | | | |
|--------------------------|----------|---------------|-------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 2 | <1 | 1 |
| Bore | ppm | ASTM D5185(m) | 2 | 1 | 2 | 2 |
| Baryum | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Molybdène | ppm | ASTM D5185(m) | 50 | 57 | 59 | 59 |
| Manganèse | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Magnésium | ppm | ASTM D5185(m) | 950 | 916 | 966 | 988 |
| Calcium | ppm | ASTM D5185(m) | 1050 | 1131 | 1169 | 1145 |
| Phosphore | ppm | ASTM D5185(m) | 995 | 1001 | 1091 | 1093 |
| Zinc | ppm | ASTM D5185(m) | 1180 | 1180 | 1198 | 1210 |
| Soufre | ppm | ASTM D5185(m) | 2600 | 2614 | 2715 | 2749 |
| Oxydation | Abs/.1mm | ASTM D7414* | >25 | 15.3 | 14.7 | 15.0 |
| Visc 40°C | cSt | ASTM D7279(m) | 80.1 | 91.2 | 89.9 | 94.5 |
| Visc 100°C | cSt | ASTM D7279(m) | 12.00 | 13.7 | 13.4 | 13.8 |
| Indice de viscosité (VI) | Scale | ASTM D2270* | 144 | 152 | 150 | 148 |



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **LES ENTREPRISES MICHAUVILLE INC.**
N° d'échantillon : PC0071946 **Reçu** : 18 Oct 2023 270 RUE BRUNET
N° de laboratoire : 02589847 **Diagnostiqué** : 18 Oct 2023 MONT ST-HILAIRE, QC
Numéro unique : 5658913 **Diagnostiqueur** : Wes Davis CA J3H 0M6
Analyse : MOB 1 (Additional Tests: KV40, VI) Contact: Martin Trudel

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.

mtrudel@michaudville.com

T:

F: