



RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

52959

Composant

Moteur diesel

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant. | | Client Info | | WC0909582 | WC0889964 | WC0857931 |
| Date d'échant. | | Client Info | | 05 Mar 2024 | 18 Dec 2023 | 14 Oct 2023 |
| Âge d la Machine | mls | Client Info | | 93287 | 64589 | 11536 |
| Âge de l'huile | mls | Client Info | | 28697 | 29480 | 11536 |
| Âge du filtre | mls | Client Info | | 28697 | 29480 | 11536 |
| Huile changée | | Client Info | | Changed | Changed | Changed |
| Filtre changé | | Client Info | | Changed | Changed | Changed |
| Statut de l'échant. | | | | NORMAL | NORMAL | NORMAL |

USURE

All component wear rates are normal.

| | | | | | | |
|-----------|-----|---------------|------|--------------|----|----|
| Fer | ppm | ASTM D5185(m) | >90 | 23 | 32 | 80 |
| Chrome | ppm | ASTM D5185(m) | >20 | 2 | 2 | 3 |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | 1 | <1 |
| Titane | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Argent | ppm | ASTM D5185(m) | >2 | 0 | <1 | 1 |
| Aluminium | ppm | ASTM D5185(m) | >20 | 5 | 9 | 27 |
| Plomb | ppm | ASTM D5185(m) | >40 | 1 | 3 | 6 |
| Cuivre | ppm | ASTM D5185(m) | >330 | 1 | 3 | 18 |
| Étain | ppm | ASTM D5185(m) | >15 | <1 | 2 | 4 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

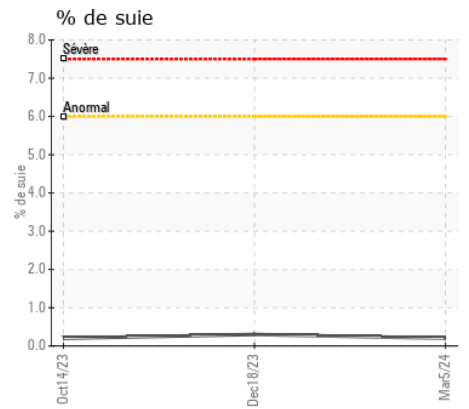
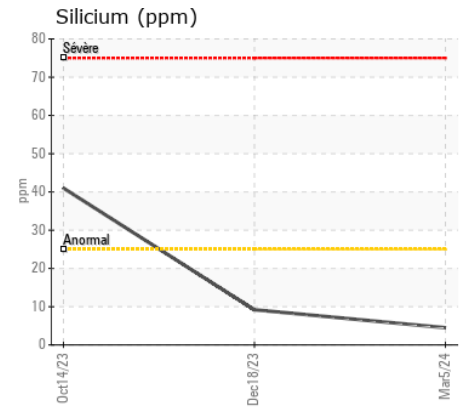
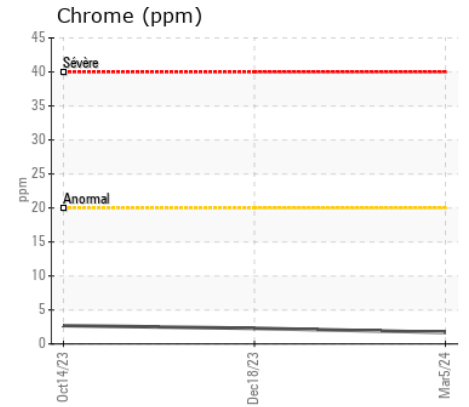
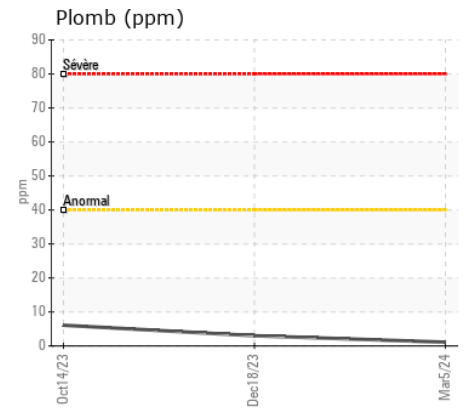
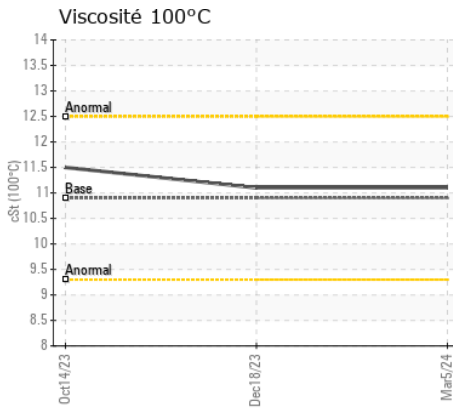
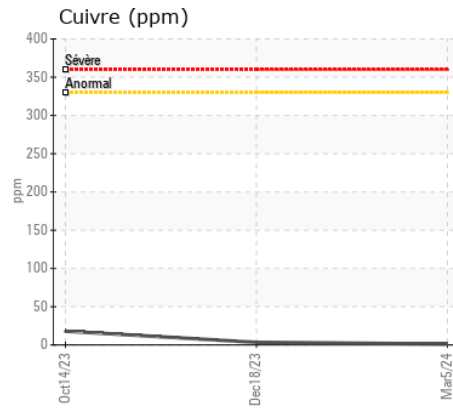
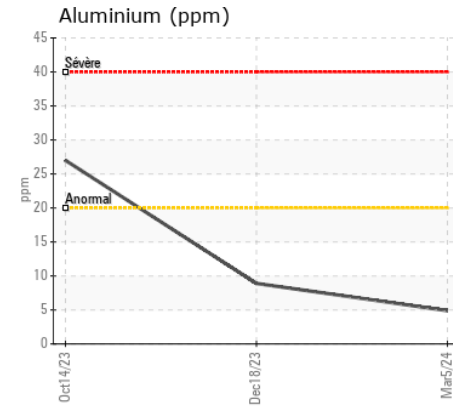
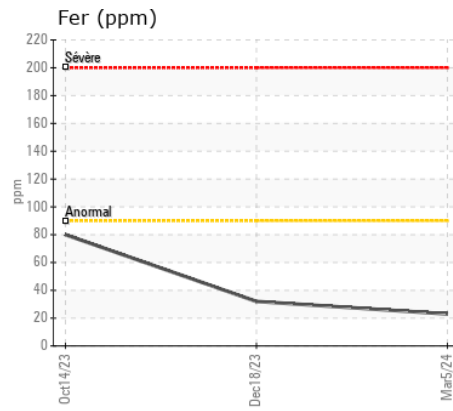
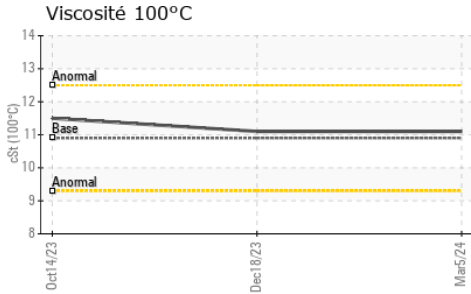
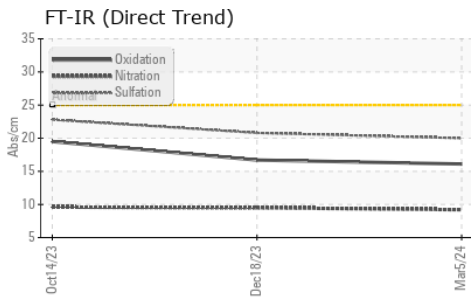
There is no indication of any contamination in the oil.

| | | | | | | |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium | ppm | ASTM D5185(m) | >25 | 4 | 9 | 41 |
| Potassium | ppm | ASTM D5185(m) | >20 | 7 | 21 | 92 |
| Essence | | WC Method | >3.0 | <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* | >6 | 0.2 | 0.3 | 0.2 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.2 | 9.5 | 9.6 |
| Sulfatation | Abs/.1mm | ASTM D7415* | >30 | 20.0 | 20.8 | 22.8 |
| 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 | 5 |
| Bore | ppm | ASTM D5185(m) | 250 | 2 | 3 | 33 |
| Baryum | ppm | ASTM D5185(m) | 10 | 0 | <1 | 5 |
| Molybdène | ppm | ASTM D5185(m) | 100 | 60 | 60 | 65 |
| Manganèse | ppm | ASTM D5185(m) | | 0 | <1 | 4 |
| Magnésium | ppm | ASTM D5185(m) | 450 | 983 | 916 | 465 |
| Calcium | ppm | ASTM D5185(m) | 3000 | 1110 | 1287 | 1772 |
| Phosphore | ppm | ASTM D5185(m) | 1150 | 996 | 1010 | 960 |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1213 | 1198 | 1206 |
| Soufre | ppm | ASTM D5185(m) | 4250 | 2478 | 2820 | 2348 |
| Oxydation | Abs/.1mm | ASTM D7414* | >25 | 16.1 | 16.7 | 19.5 |
| Visc 100°C | cSt | ASTM D7279(m) | 10.9 | 11.1 | 11.1 | 11.5 |



Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : WC0909582
N° de laboratoire : 02626946
Numéro unique : 5760078
Analyse : MOB 1

Reçu : 05 Apr 2024
Tested : 05 Apr 2024
Diagnostiqué : 05 Apr 2024 - Wes Davis

MANITOU LIN TRANSPORT
 1890 DES SOURCES BOULEVARD
 POINTE CLAIRE, QC
 CA H9R 5B1
 Contact: Eric Marcelin
 emarcelin@manitoulintransport.com
 T: (514)694-5111
 F: (514)694-9739

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.