



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |



Machine Id
OR1043
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0093669 | GFL0093652 | GFL0063148 |
| Sample Date | | Client Info | | 09 Apr 2024 | 03 Jan 2024 | 17 Oct 2023 |
| Machine Age | hrs | Client Info | | 12992 | 12644 | 12172 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | N/A | Changed |
| Filter Changed | | Client Info | | Changed | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | ATTENTION |

WEAR

Les taux d'usure de tous les composants sont normaux.

| | | | | | | |
|--------------|--------|---------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >100 | 15 | 19 | 23 |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | 1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >25 | 13 | 17 | 17 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >330 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |

CONTAMINATION

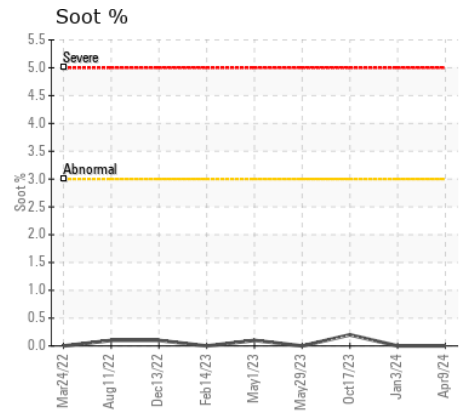
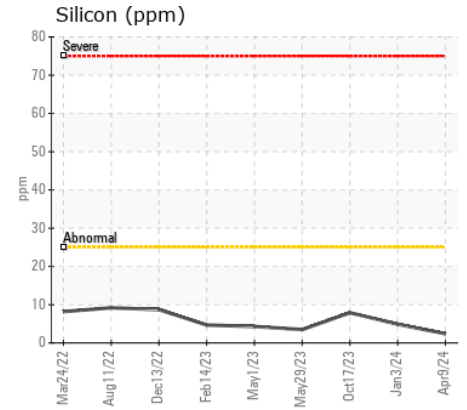
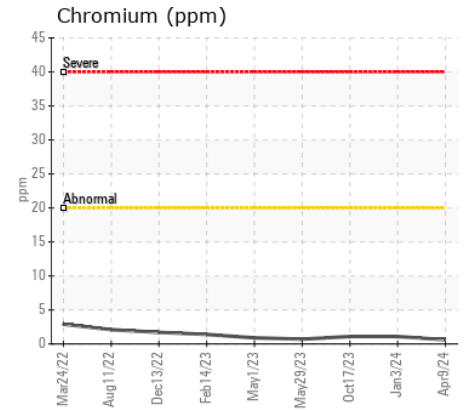
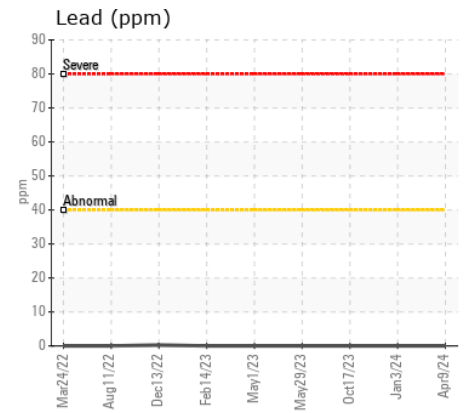
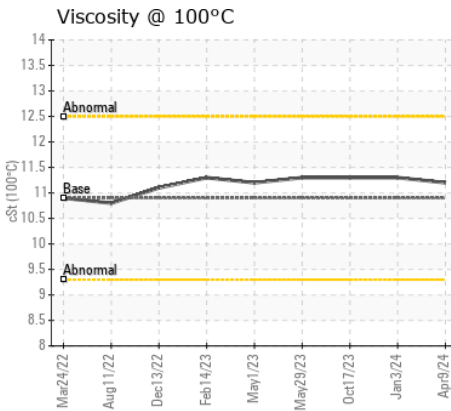
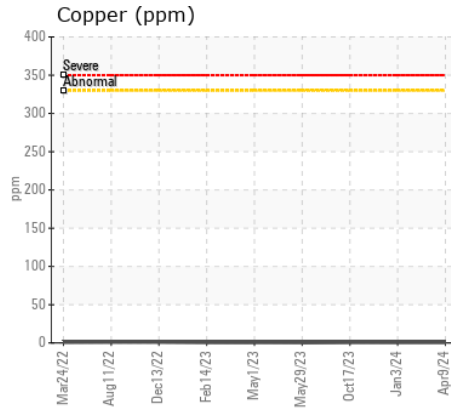
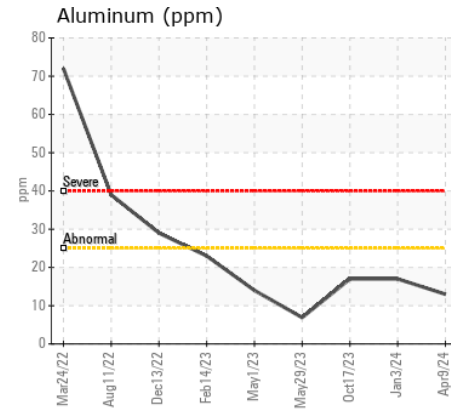
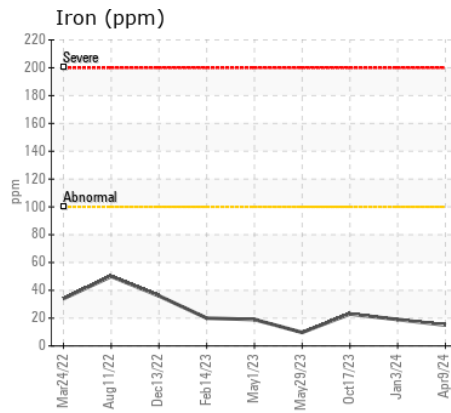
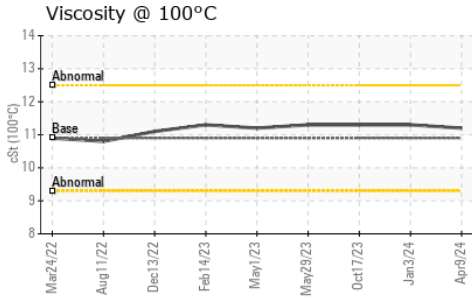
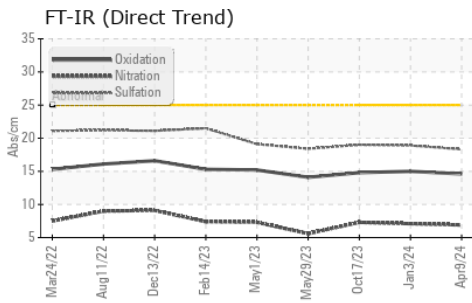
Il n'y a aucun indice de contamination dans l'huile.

| | | | | | | |
|------------------|----------|---------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >25 | 2 | 5 | 8 |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | 3 | 5 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | 0.0 | 0.0 |
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | 0.2 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.9 | 7.1 | 7.3 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.3 | 18.9 | 19.0 |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | VLITE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

L'état de l'huile est acceptable pour la durée de service.

| | | | | | | |
|--------------|----------|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 28 | 83 | 171 |
| Boron | ppm | ASTM D5185(m) | 250 | 2 | 1 | 2 |
| Barium | ppm | ASTM D5185(m) | 10 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 100 | 60 | 68 | 85 |
| Manganese | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 450 | 962 | 933 | 984 |
| Calcium | ppm | ASTM D5185(m) | 3000 | 1064 | 1086 | 1132 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 993 | 1017 | 1067 |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1184 | 1180 | 1263 |
| Sulfur | ppm | ASTM D5185(m) | 4250 | 2591 | 2746 | 2697 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.6 | 15.0 | 14.8 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 10.9 | 11.2 | 11.3 | 11.3 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0093669 **Received** : 12 Apr 2024
Lab Number : 02628352 **Tested** : 12 Apr 2024
Unique Number : 5761484 **Diagnosed** : 12 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

GFL Environmental - 769 - Drummondville CD
 1005 rue Rhea
 Drummondville, QC
 CA J2B 8A9
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

T:
F: