



Machine Id
812051
Component
Diesel Engine
Fluid
PETRO CANADA 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 | | PC0088683 | PC0083859 | PC0077977 |
| Sample Date | | Client Info | | 22 Apr 2024 | 31 Jan 2024 | 01 Nov 2023 |
| Machine Age | kms | Client Info | | 65891 | 60684 | 55249 |
| Oil Age | kms | Client Info | | 60684 | 0 | 0 |
| Filter Age | kms | Client Info | | 60684 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Les taux de métaux sont typiques pour la période de rodage d'un nouveau composant.

| | | | | | | |
|--------------|--------|---------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >80 | 15 | 15 | 16 |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >30 | 4 | 5 | 6 |
| Lead | ppm | ASTM D5185(m) | >30 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >150 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | VLITE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |

CONTAMINATION

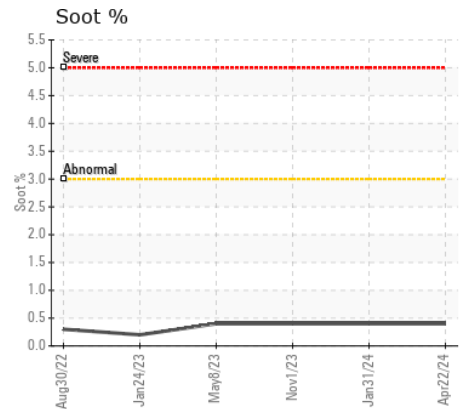
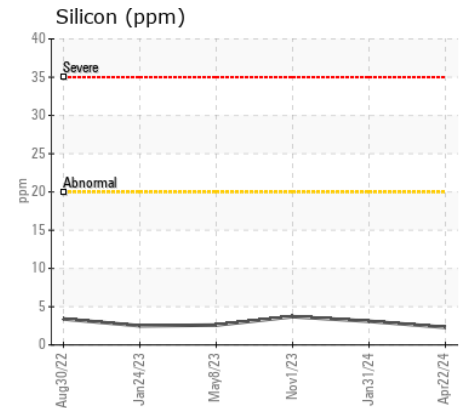
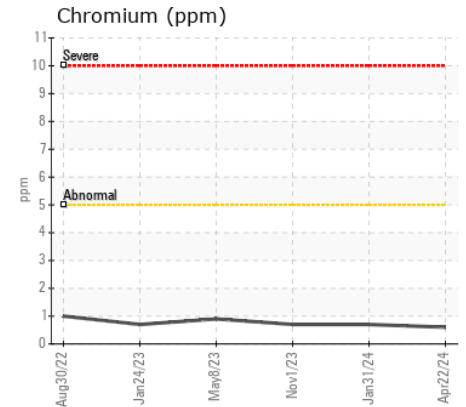
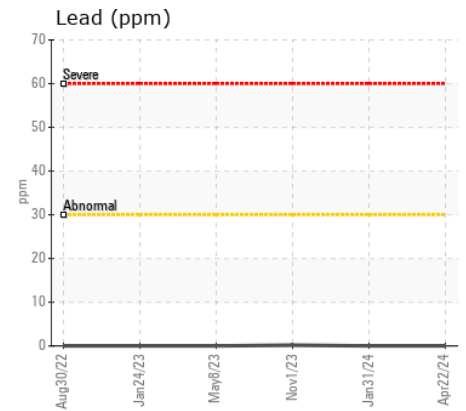
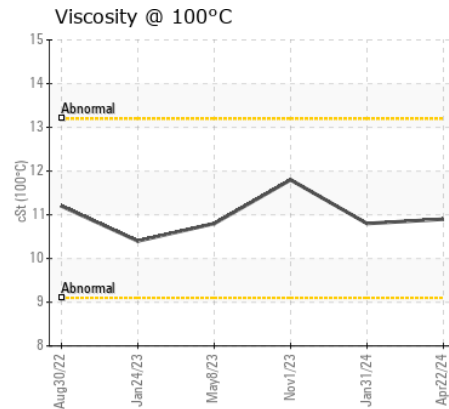
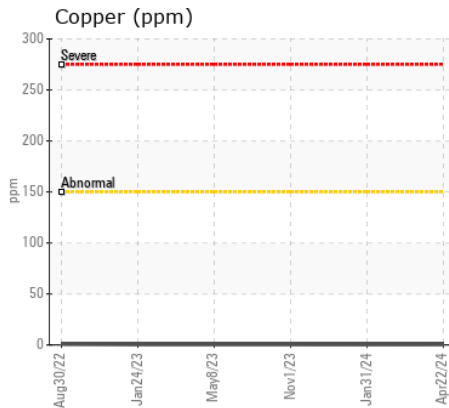
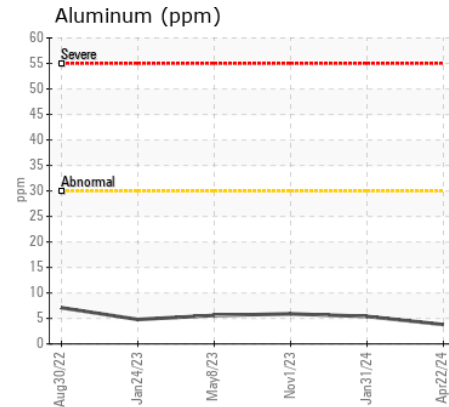
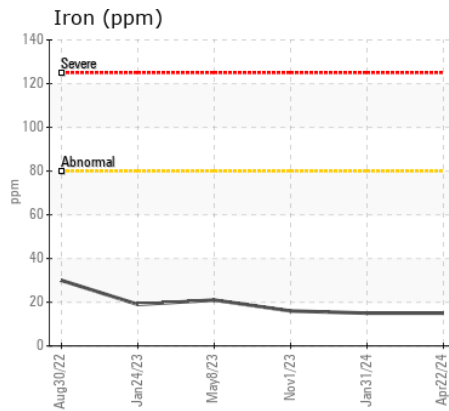
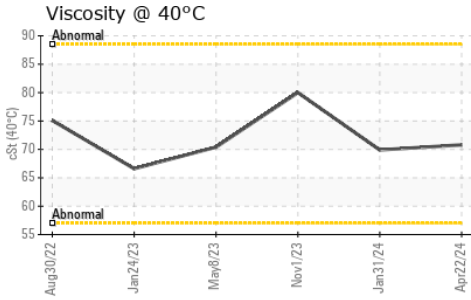
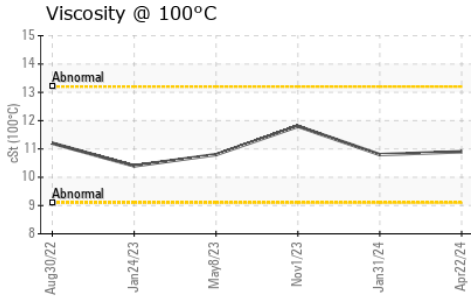
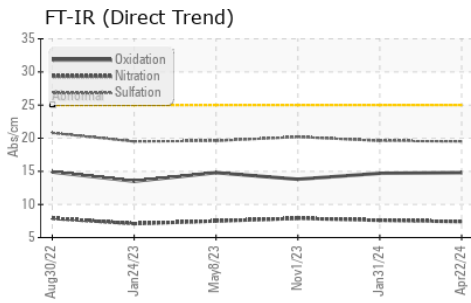
Il n'y a aucun indice de contamination dans l'huile.

| | | | | | | |
|------------------|----------|---------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >20 | 2 | 3 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 4 | 5 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0.4 | 0.4 | 0.4 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.4 | 7.6 | 7.9 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.5 | 19.6 | 20.2 |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | NONE | --- | --- |
| 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) | | 1 | 1 | 2 |
| Boron | ppm | ASTM D5185(m) | | 9 | 9 | 35 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | 61 | 56 | 30 |
| Manganese | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | 946 | 885 | 243 |
| Calcium | ppm | ASTM D5185(m) | | 1093 | 1232 | 2241 |
| Phosphorus | ppm | ASTM D5185(m) | | 985 | 997 | 1005 |
| Zinc | ppm | ASTM D5185(m) | | 1184 | 1172 | 1226 |
| Sulfur | ppm | ASTM D5185(m) | | 2489 | 2706 | 3019 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.8 | 14.7 | 13.8 |
| Visc @ 40°C | cSt | ASTM D7279(m) | | 70.8 | 69.9 | 80.0 |
| Visc @ 100°C | cSt | ASTM D7279(m) | | 10.9 | 10.8 | 11.8 |
| Viscosity Index (VI) | Scale | ASTM D2270* | | 143 | 143 | 141 |



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088683
Lab Number : 02631539
Unique Number : 5772692
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

GFL Environmental - 742 - Quebec City Solid Waste
 5160 Jean-Talon Pierre-Bertrand Bou
 Quebec City, QC
 CA G2J 1B7
 Contact: Jean Audet
 Jaudet@matrec.ca
 T: (418)624-0080
 F:

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.