



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



Machine Id
811038
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (30 LTR)

RECOMMENDATION

Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage.
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 | | GFL0120705 | GFL0096384 | GFL0096441 |
| Sample Date | | Client Info | | 18 Jun 2024 | 01 Mar 2024 | 14 Feb 2024 |
| Machine Age | kms | Client Info | | 118895 | 103216 | 102317 |
| Oil Age | kms | Client Info | | 0 | 0 | 0 |
| Filter Age | kms | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Filter Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

WEAR

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

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >80 | 30 | 8 | 31 |
| Chromium | ppm | ASTM D5185(m) | >5 | 1 | <1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >30 | 6 | 3 | 11 |
| Lead | ppm | ASTM D5185(m) | >30 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >150 | 2 | <1 | 2 |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

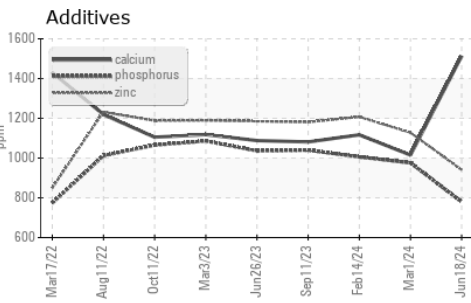
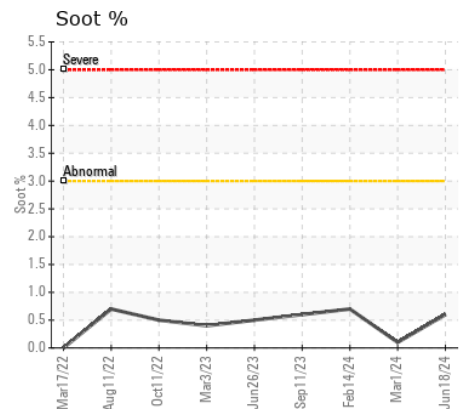
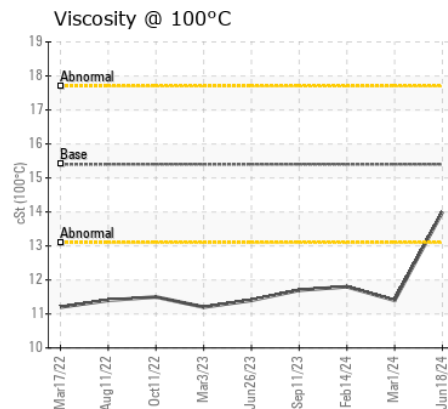
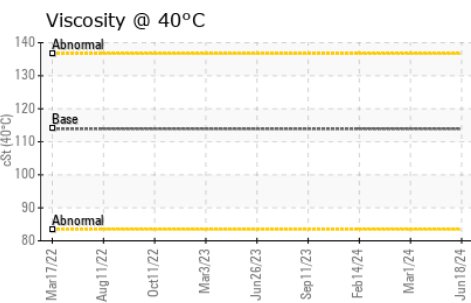
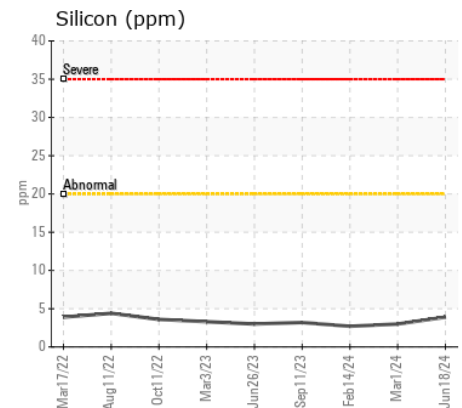
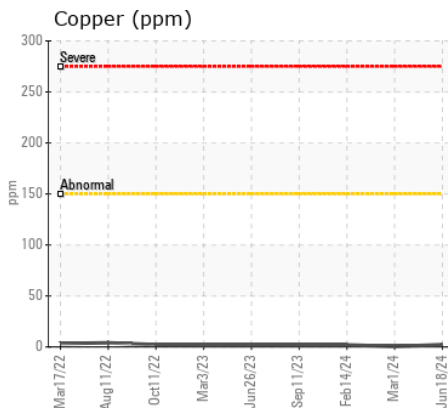
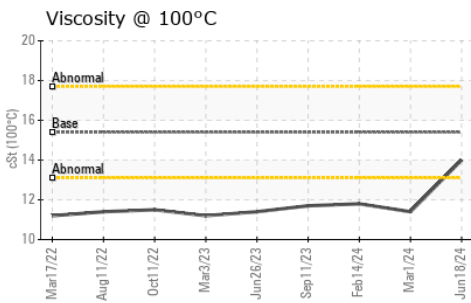
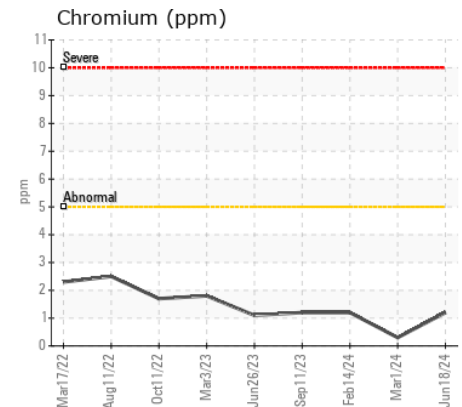
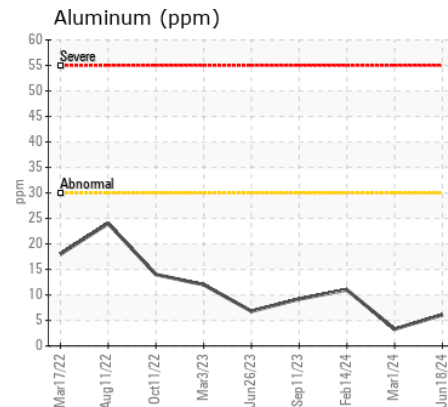
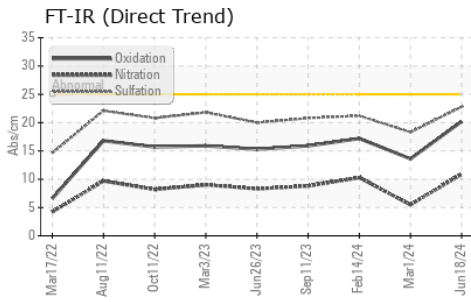
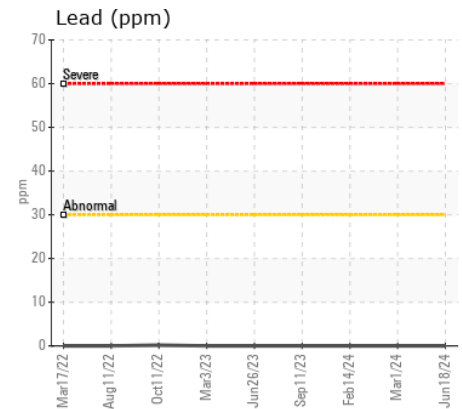
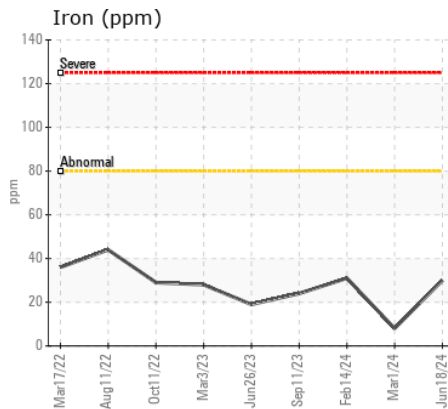
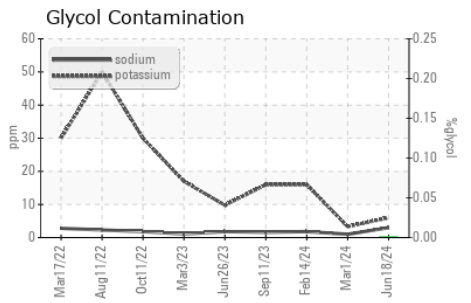
Il n'y a aucun indice de contamination dans l'huile.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >20 | 4 | 3 | 3 |
| Potassium | ppm | ASTM D5185(m) | >20 | 6 | 3 | 16 |
| Fuel | | WC Method | >5 | <1.0 | 0.6 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | % | ASTM D7922* | | 0.0 | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0.6 | 0.1 | 0.7 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 10.9 | 5.5 | 10.3 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 22.8 | 18.3 | 21.2 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'état de l'huile est acceptable pour la durée de service.

| | | | | | | |
|----------------------|----------|---------------|-------|--------------|--------|------|
| Sodium | ppm | ASTM D5185(m) | | 3 | 1 | 2 |
| Boron | ppm | ASTM D5185(m) | 0 | 15 | <1 | 1 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 52 | 58 | 62 |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 638 | 929 | 1016 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1513 | 1015 | 1117 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 780 | 976 | 1006 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 941 | 1128 | 1207 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 1977 | 2634 | 2401 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 20.2 | 13.6 | 17.2 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 113.9 | 108 | --- | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 14.0 | ▲ 11.4 | 11.8 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 142 | 130 | --- | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0120705
Lab Number : 02643105
Unique Number : 5800644
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI)
Received : 20 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 21 Jun 2024 - Kevin Marson

GFL Environmental - 747 - GMA - Solid Waste
 4 Chemin du Tremblay,
 Boucherville, QC
 CA J4B 6Z5
 Contact: Steve Voyer
 svoyer@matrec.ca

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.