



Machine Id
8329
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0120712 | GFL0053325 | GFL0026716 |
| Sample Date | | Client Info | | 09 May 2024 | 07 Jul 2022 | 04 Nov 2021 |
| Machine Age | hrs | Client Info | | 14811 | 290934 | 12573 |
| Oil Age | hrs | Client Info | | 600 | 0 | 400 |
| Filter Age | hrs | Client Info | | 0 | 0 | 400 |
| Oil Changed | | Client Info | | N/A | Changed | Changed |
| Filter Changed | | Client Info | | N/A | Changed | Changed |
| Sample Status | | | | SEVERE | NORMAL | NORMAL |

WEAR

Usure de cylindre, de vilebrequin ou d'arbre à cames. Usure de segment. Usure de piston.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------|-----|---------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184* | | 0 | --- | --- |
| Iron | ppm | ASTM D5185(m) | >75 | ▲ 115 | 67 | 45 |
| Chromium | ppm | ASTM D5185(m) | >5 | ▲ 5 | 2 | 2 |
| Nickel | ppm | ASTM D5185(m) | >4 | 2 | 1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >15 | ▲ 52 | 11 | 8 |
| Lead | ppm | ASTM D5185(m) | >25 | 6 | 12 | 9 |
| Copper | ppm | ASTM D5185(m) | >100 | 94 | 183 | 256 |
| Tin | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

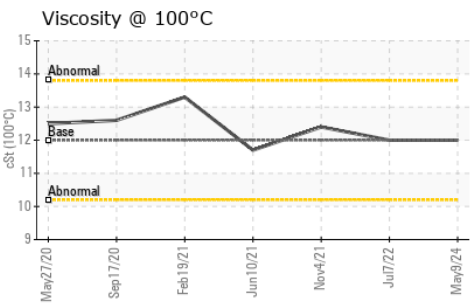
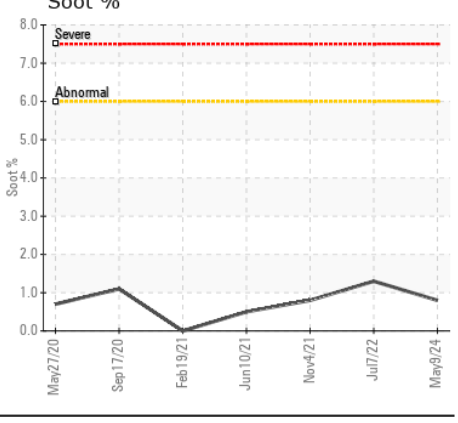
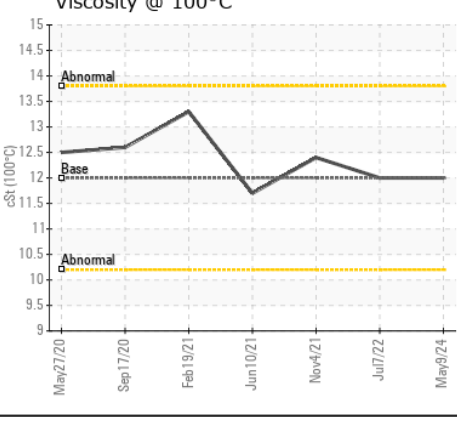
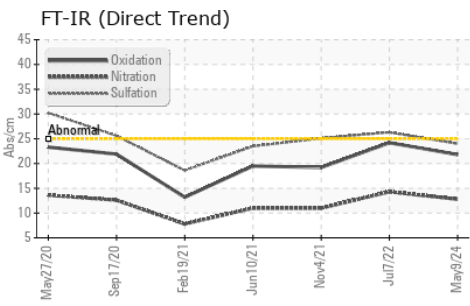
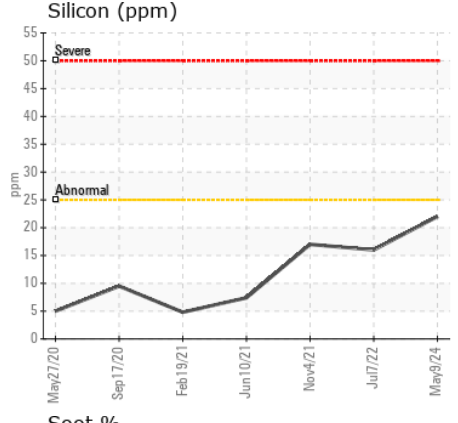
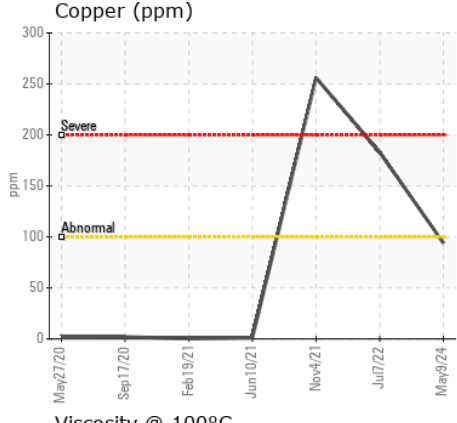
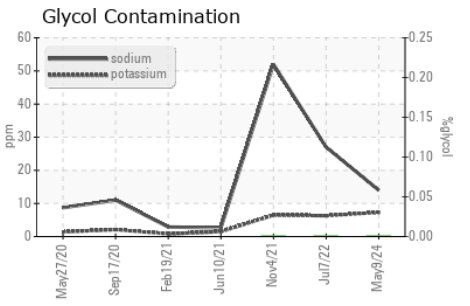
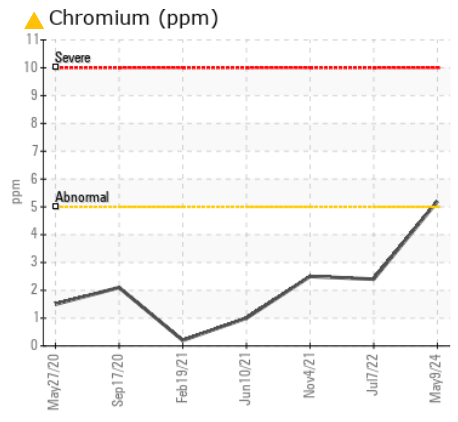
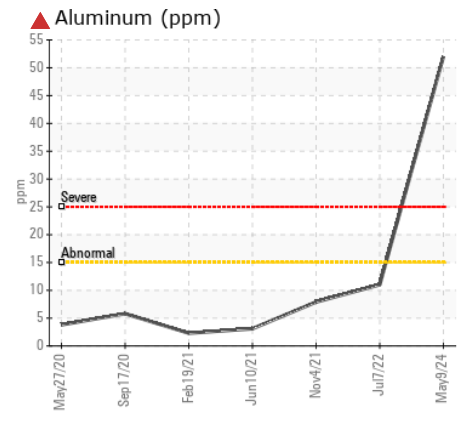
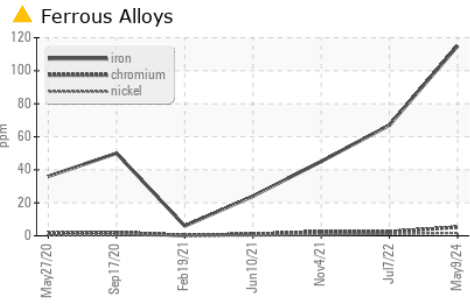
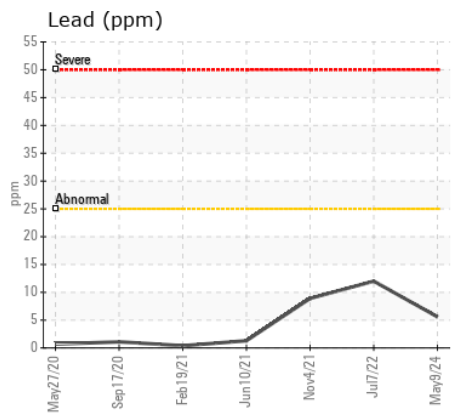
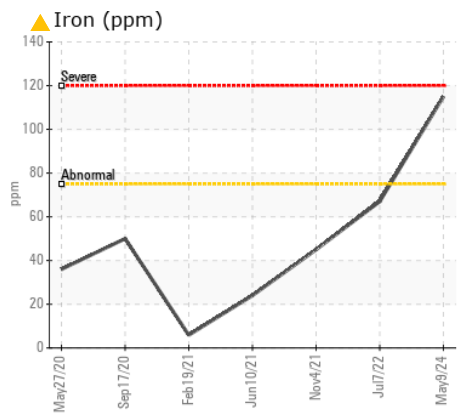
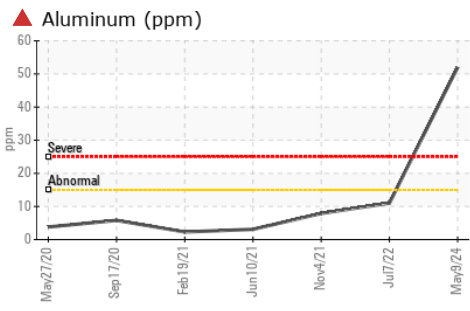
Il n'y a aucun indice de contamination dans l'huile.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 22 | 16 | 17 |
| Potassium | ppm | ASTM D5185(m) | >20 | 7 | 6 | 6 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | % | ASTM D7922* | | 0.0 | 0.0 | 0.0 |
| Soot % | % | ASTM D7844* | >6 | 0.8 | 1.3 | 0.8 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 12.8 | 14.3 | 11.0 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 24.0 | 26.3 | 25.1 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

| | | | | | | |
|--------------|----------|---------------|-------|-------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 14 | 27 | 52 |
| Boron | ppm | ASTM D5185(m) | 2 | 4 | 2 | 15 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 50 | 62 | 65 | 60 |
| Manganese | ppm | ASTM D5185(m) | 0 | 1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 950 | 991 | 1017 | 946 |
| Calcium | ppm | ASTM D5185(m) | 1050 | 1184 | 1218 | 1283 |
| Phosphorus | ppm | ASTM D5185(m) | 995 | 953 | 984 | 1123 |
| Zinc | ppm | ASTM D5185(m) | 1180 | 1210 | 1322 | 1322 |
| Sulfur | ppm | ASTM D5185(m) | 2600 | 1859 | 1950 | 2481 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 21.8 | 24.2 | 19.2 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 12.00 | 12.0 | 12.0 | 12.4 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0120712
Lab Number : 02635538
Unique Number : 5776691
Test Package : MOB 1 (Additional Tests: Glycol, PQ)
Received : 15 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 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.