



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

Machine Id
110022
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | GFL0108211 | GFL0024278 | --- |
| Sample Date | | Client Info | | 03 Apr 2024 | 31 Aug 2021 | --- |
| Machine Age | hrs | Client Info | | 11413 | 616 | --- |
| Oil Age | hrs | Client Info | | 500 | 616 | --- |
| Filter Age | hrs | Client Info | | 500 | 616 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >65 | 8 | 37 | --- |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185(m) | >3 | <1 | 1 | --- |
| Titanium | ppm | ASTM D5185(m) | >5 | 0 | 0 | --- |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185(m) | >35 | 2 | 10 | --- |
| Lead | ppm | ASTM D5185(m) | >10 | 0 | 17 | --- |
| Copper | ppm | ASTM D5185(m) | >180 | 5 | 569 | --- |
| Tin | ppm | ASTM D5185(m) | >8 | 0 | 6 | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | <1 | --- |

CONTAMINATION

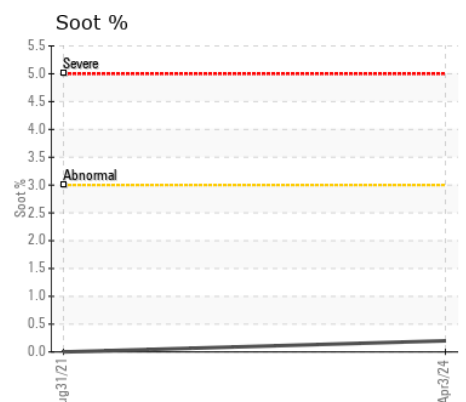
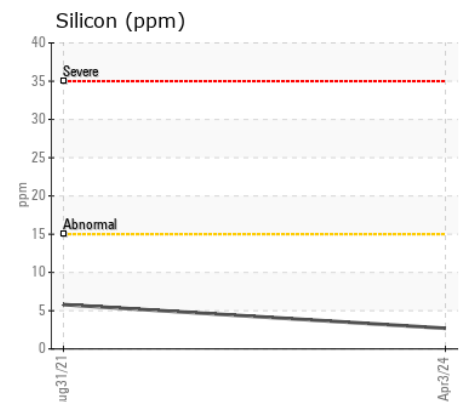
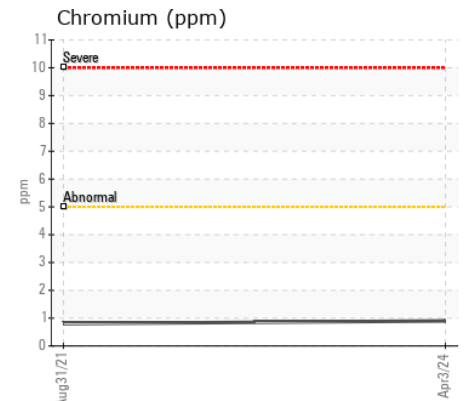
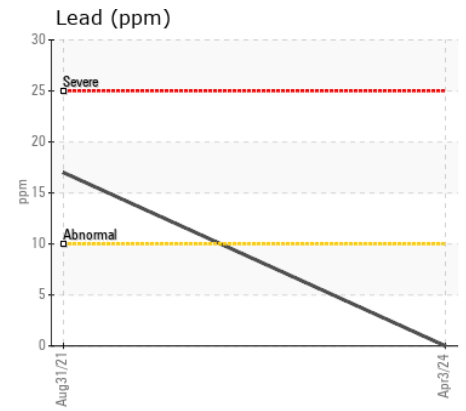
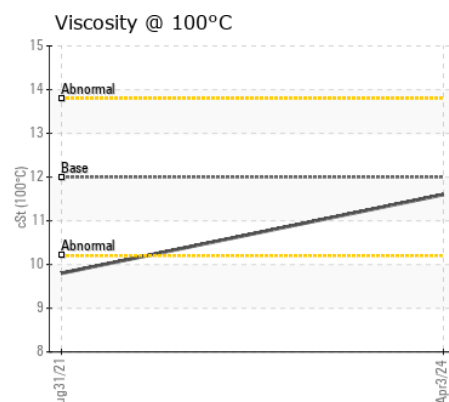
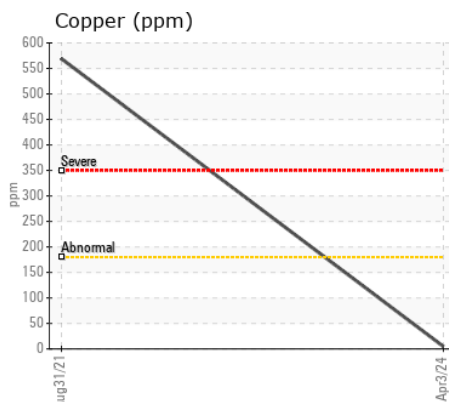
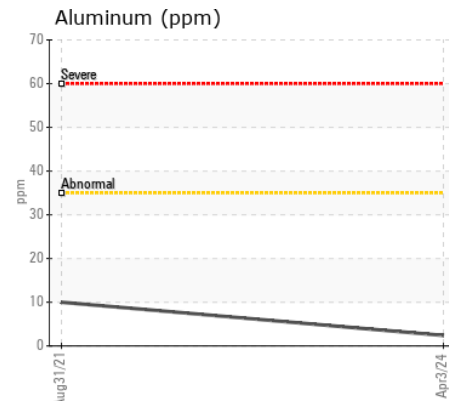
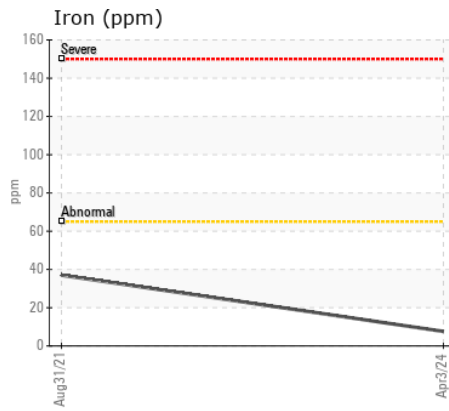
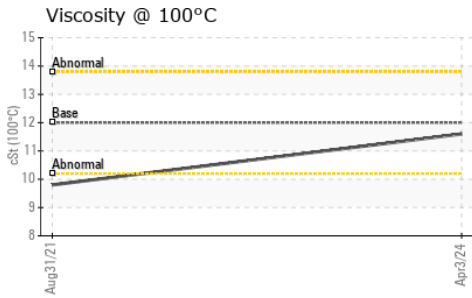
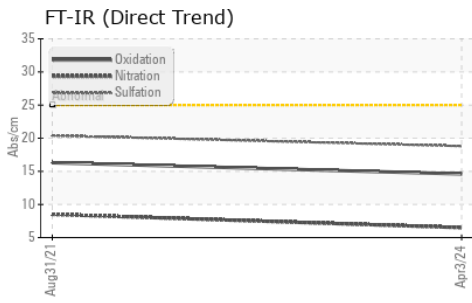
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|-----|
| Silicon | ppm | ASTM D5185(m) | >15 | 3 | 6 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 21 | --- |
| Fuel | | WC Method | >3.0 | <1.0 | 0.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | ASTM D7844* | >3 | 0.2 | 0 | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.5 | 8.5 | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.8 | 20.4 | --- |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | --- |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|--------------|----------|---------------|-------|-------------|------|-----|
| Sodium | ppm | ASTM D5185(m) | | 1 | 4 | --- |
| Boron | ppm | ASTM D5185(m) | 2 | 1 | 63 | --- |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | <1 | --- |
| Molybdenum | ppm | ASTM D5185(m) | 50 | 59 | 53 | --- |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 4 | --- |
| Magnesium | ppm | ASTM D5185(m) | 950 | 976 | 625 | --- |
| Calcium | ppm | ASTM D5185(m) | 1050 | 1054 | 1612 | --- |
| Phosphorus | ppm | ASTM D5185(m) | 995 | 983 | 804 | --- |
| Zinc | ppm | ASTM D5185(m) | 1180 | 1177 | 890 | --- |
| Sulfur | ppm | ASTM D5185(m) | 2600 | 2451 | 2324 | --- |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.6 | 16.3 | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | 12.00 | 11.6 | 9.8 | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0108211
Lab Number : 02628123
Unique Number : 5761255
Test Package : MOB 1
Received : 11 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 11 Apr 2024 - Wes Davis

GFL Environmental - 355 - Saskatoon
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 CA S7K 3J7
 Contact: Ryan Polichuk
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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.