



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

Machine Id
101081
 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 | | GFL0108214 | GFL0108239 | GFL0047672 |
| Sample Date | | Client Info | | 09 Apr 2024 | 12 Feb 2024 | 18 Nov 2022 |
| Machine Age | kms | Client Info | | 328049 | 0 | 12150 |
| Oil Age | kms | Client Info | | 0 | 500 | 600 |
| Filter Age | kms | Client Info | | 0 | 500 | 600 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >110 | 11 | 15 | 16 |
| Chromium | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >25 | 1 | 2 | 4 |
| Lead | ppm | ASTM D5185(m) | >45 | <1 | 2 | 2 |
| Copper | ppm | ASTM D5185(m) | >85 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

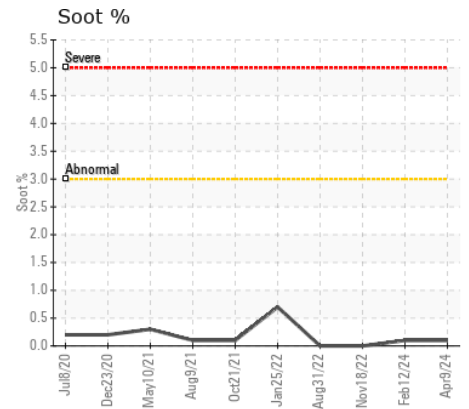
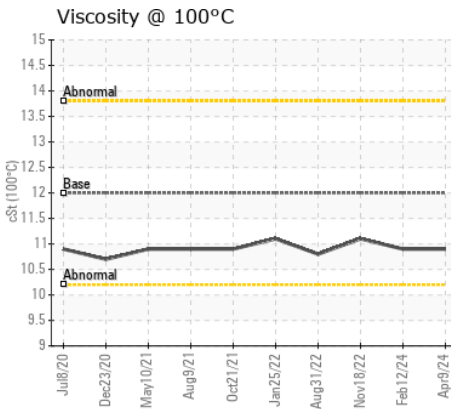
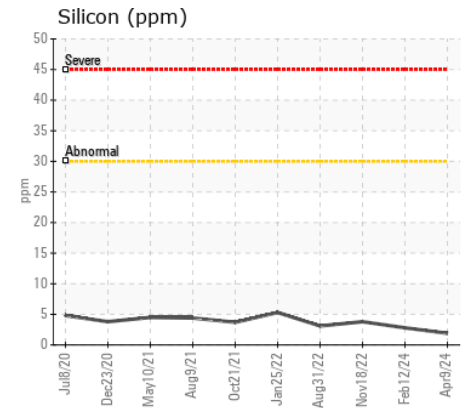
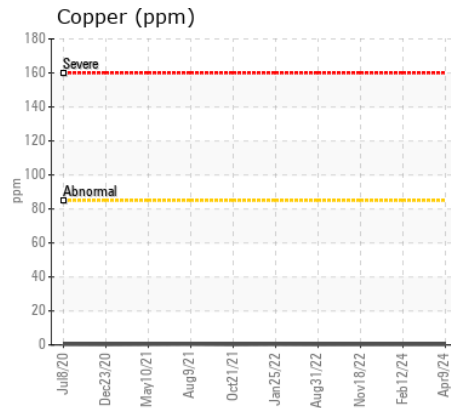
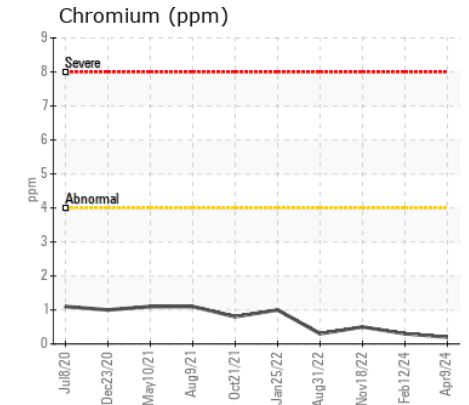
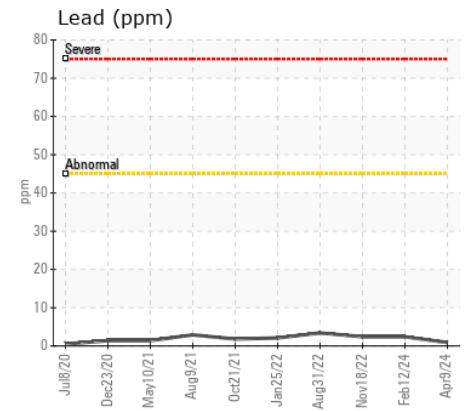
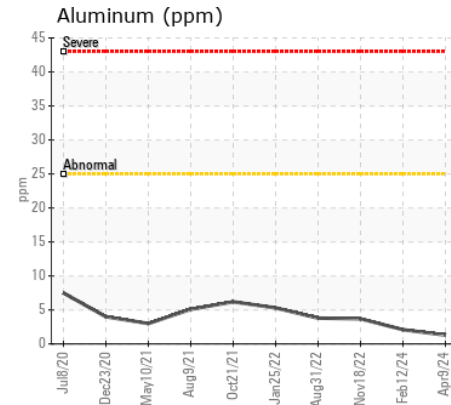
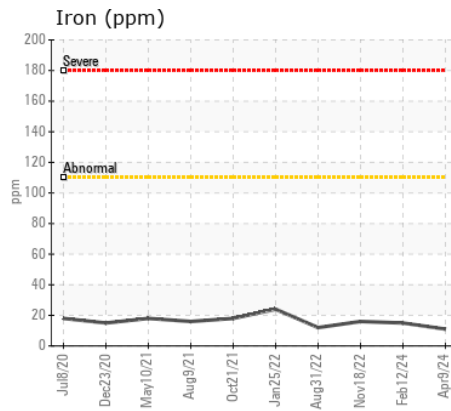
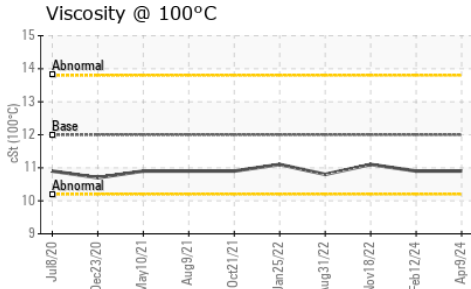
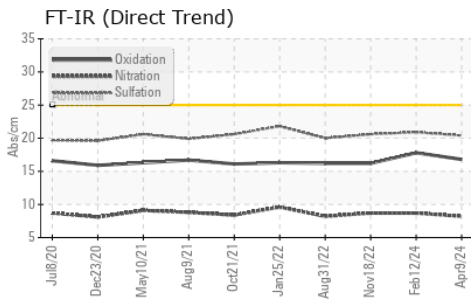
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >30 | 2 | 3 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | 2 | 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 | 0.1 | 0.1 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.2 | 8.7 | 8.7 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 20.4 | 20.9 | 20.6 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|-------|-------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 1 | <1 | 1 |
| Boron | ppm | ASTM D5185(m) | 2 | 2 | 1 | 2 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 50 | 60 | 58 | 60 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 950 | 1020 | 985 | 990 |
| Calcium | ppm | ASTM D5185(m) | 1050 | 1100 | 1093 | 1094 |
| Phosphorus | ppm | ASTM D5185(m) | 995 | 1009 | 1004 | 1075 |
| Zinc | ppm | ASTM D5185(m) | 1180 | 1200 | 1151 | 1217 |
| Sulfur | ppm | ASTM D5185(m) | 2600 | 2449 | 2567 | 2549 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 16.8 | 17.8 | 16.2 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 12.00 | 10.9 | 10.9 | 11.1 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0108214
Lab Number : 02631093
Unique Number : 5772246
Test Package : MOB 1
Received : 24 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Wes Davis

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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.