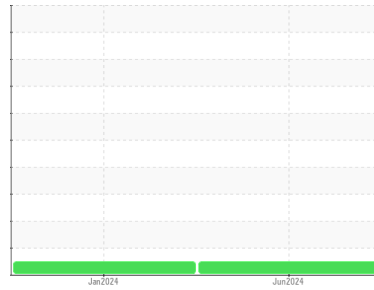




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
833065
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (24 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | GFL0094407 | GFL0094401 | --- |
| Sample Date | Client Info | | 12 Jun 2024 | 24 Jan 2024 | --- |
| Machine Age | hrs | Client Info | 2003 | 1197 | --- |
| Oil Age | hrs | Client Info | 1000 | 1197 | --- |
| Oil Changed | Client Info | | Changed | Changed | --- |
| Sample Status | | | NORMAL | NORMAL | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >50 | 17 | 39 | --- |
| Chromium | ppm | ASTM D5185(m) >4 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185(m) >2 | <1 | 1 | --- |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | --- |
| Silver | ppm | ASTM D5185(m) >3 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185(m) >9 | 2 | 5 | --- |
| Lead | ppm | ASTM D5185(m) >30 | 0 | 2 | --- |
| Copper | ppm | ASTM D5185(m) >35 | 3 | 14 | --- |
| Tin | ppm | ASTM D5185(m) >4 | <1 | <1 | --- |
| Antimony | ppm | ASTM D5185(m) | 0 | 0 | --- |
| Vanadium | ppm | ASTM D5185(m) | 0 | 0 | --- |
| Beryllium | ppm | ASTM D5185(m) | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185(m) | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|--------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) 50 | 6 | 8 | --- |
| Barium | ppm | ASTM D5185(m) 5 | <1 | 2 | --- |
| Molybdenum | ppm | ASTM D5185(m) 50 | 60 | 93 | --- |
| Manganese | ppm | ASTM D5185(m) 0 | 2 | 10 | --- |
| Magnesium | ppm | ASTM D5185(m) 560 | 594 | 650 | --- |
| Calcium | ppm | ASTM D5185(m) 1510 | 1607 | 1335 | --- |
| Phosphorus | ppm | ASTM D5185(m) 780 | 720 | 692 | --- |
| Zinc | ppm | ASTM D5185(m) 870 | 928 | 818 | --- |
| Sulfur | ppm | ASTM D5185(m) 2040 | 2050 | 2244 | --- |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >+100 | 5 | 25 | --- |
| Sodium | ppm | ASTM D5185(m) | 2 | 4 | --- |
| Potassium | ppm | ASTM D5185(m) >20 | <1 | 2 | --- |

INFRA-RED

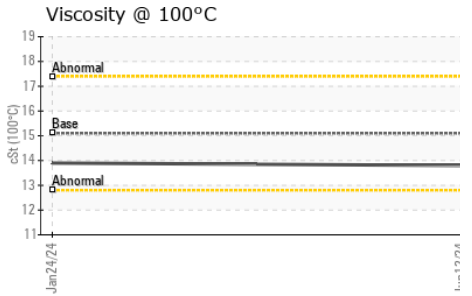
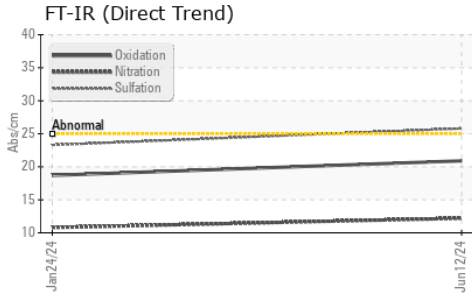
| | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|---------------|----------|----------|
| Soot % | % | ASTM D7844* | 0 | 0 | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | 10.8 | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 23.3 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|---------------|----------|----------|
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 18.7 | --- |



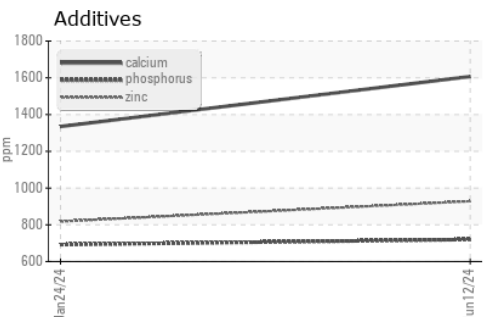
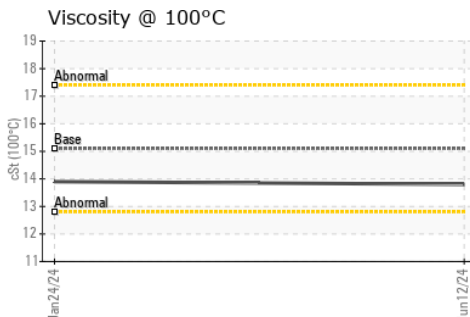
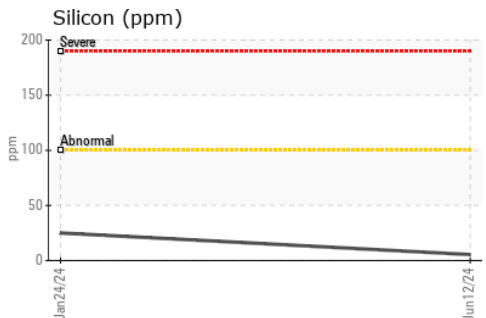
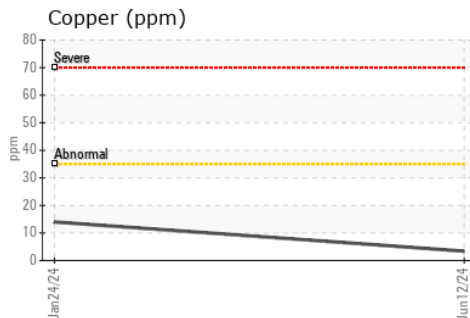
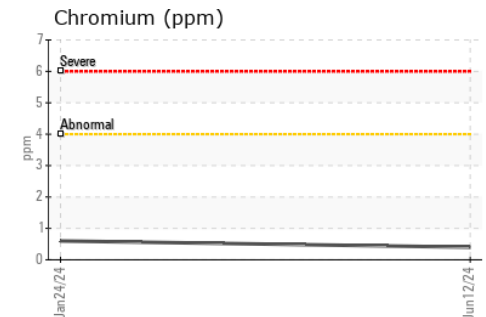
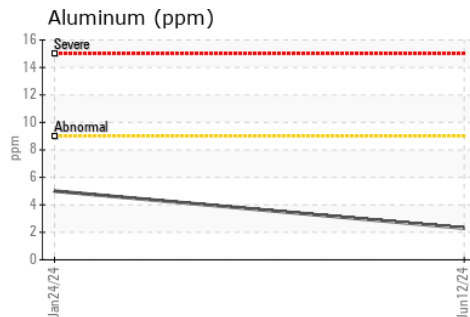
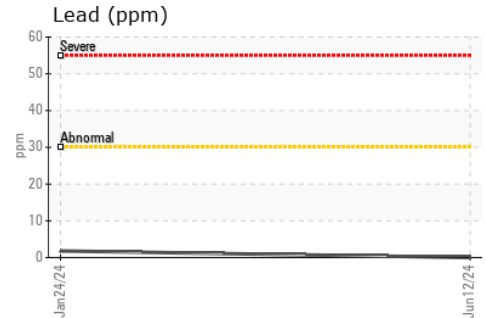
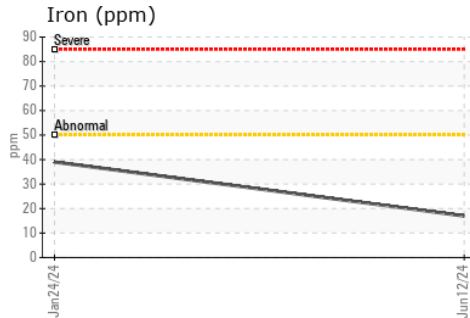
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Emulsified Water | scalar | Visual* | >0.1 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.1 | 13.8 | 13.9 |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0094407
Lab Number : 02641671
Unique Number : 5799210
Test Package : MOB 1
Received : 13 Jun 2024
Tested : 13 Jun 2024
Diagnosed : 13 Jun 2024 - Wes Davis

GFL Environmental - 222 - Sandhill
 SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD
 ORANGEVILLE, ON
 CA L9W 3X5
 Contact: GLENN COOK
 gcook@gflenv.com
 T: (519)940-4167
 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.