

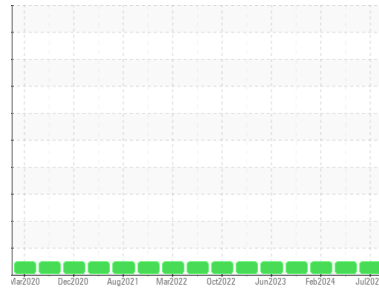


OIL ANALYSIS REPORT



Machine Id
OR564
Component
Front Differential
Fluid
PETRO CANADA DURATRAN (22 LTR)

Sample Rating Trend



NORMAL



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 | | GFL0124639 | GFL0113417 | GFL0092217 |
| Sample Date | Client Info | | 09 Jul 2024 | 25 Apr 2024 | 09 Feb 2024 |
| Machine Age | hrs | Client Info | 21803 | 21261 | 20550 |
| Oil Age | hrs | Client Info | 16746 | 10000 | 16204 |
| Oil Changed | Client Info | | Not Chngd | Oil Added | Not Chngd |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >.2 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|----|
| Iron | ppm | ASTM D5185(m) | >420 | 8 | 7 | 7 |
| Chromium | ppm | ASTM D5185(m) | >4 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >5 | <1 | <1 | 1 |
| Lead | ppm | ASTM D5185(m) | >95 | 46 | 42 | 39 |
| Copper | ppm | ASTM D5185(m) | >170 | 31 | 33 | 29 |
| Tin | ppm | ASTM D5185(m) | >15 | <1 | <1 | <1 |
| Antimony | ppm | ASTM D5185(m) | >4 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

ADDITIVES

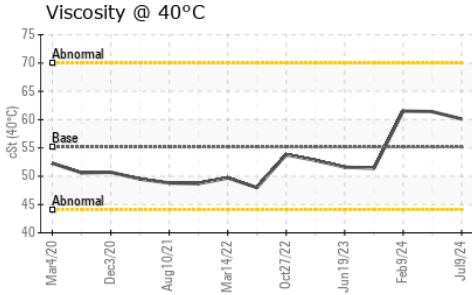
| | method | limit/base | current | history1 | history2 | |
|------------|--------|---------------|---------|--------------|----------|------|
| Boron | ppm | ASTM D5185(m) | 110 | 42 | 40 | 42 |
| Barium | ppm | ASTM D5185(m) | 0.0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 0.0 | 2 | <1 | 1 |
| Manganese | ppm | ASTM D5185(m) | 1 | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 13 | 38 | 30 | 30 |
| Calcium | ppm | ASTM D5185(m) | 3610 | 2525 | 2700 | 2783 |
| Phosphorus | ppm | ASTM D5185(m) | 1192 | 960 | 1021 | 1032 |
| Zinc | ppm | ASTM D5185(m) | 1455 | 1112 | 1117 | 1124 |
| Sulfur | ppm | ASTM D5185(m) | 2641 | 2795 | 2918 | 3094 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|----|
| Silicon | ppm | ASTM D5185(m) | >35 | 4 | 8 | 4 |
| Sodium | ppm | ASTM D5185(m) | | 2 | 2 | 2 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |



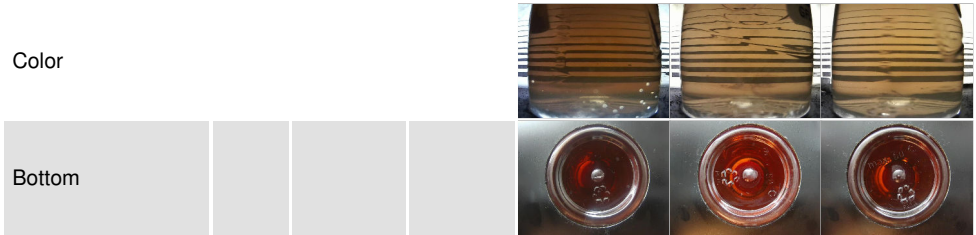
OIL ANALYSIS REPORT



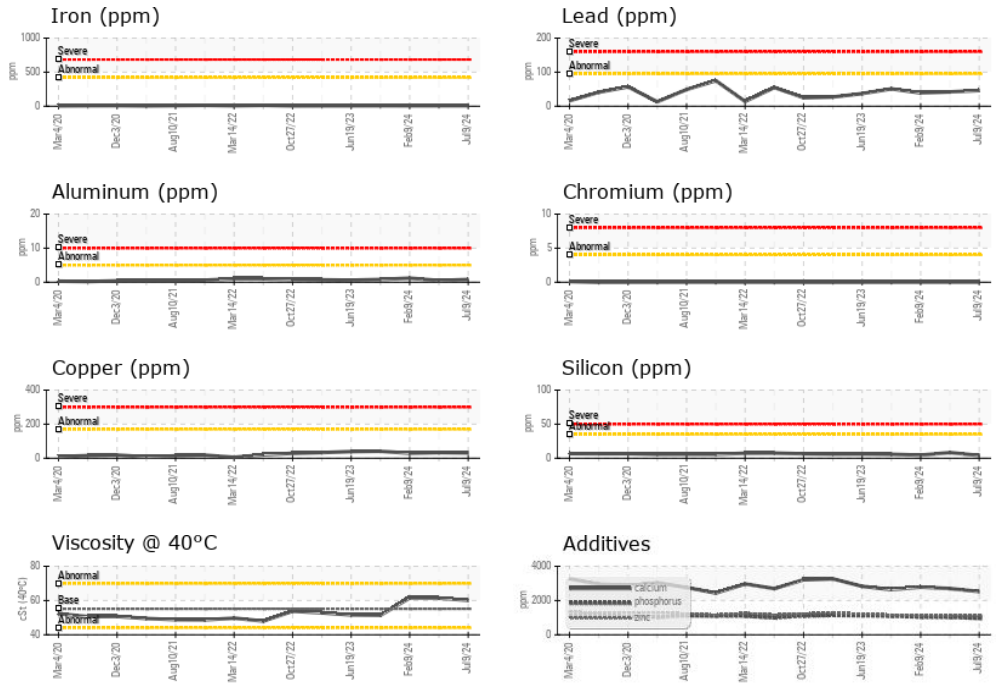
| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-------|
| White Metal | scalar | Visual* | NONE | VLITE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >.2 | NEG | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|---------------|---------|-------------|----------|------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 55.14 | 60.1 | 61.4 | 61.5 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0124639
Lab Number : **02647420**
Unique Number : 5812972
Test Package : MOB 1

GFL Environmental - 720 - Lafleche - Landfill
 17125 Lafleche Road,
 Moose Creek, ON
 CA K0C 1W0
 Contact: Charles Bergeron
 cbergeron@gflenv.com
 T: (613)538-4853
 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.