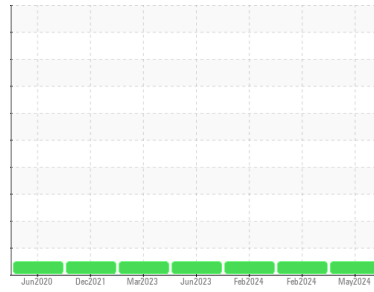




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

Or562

Component

Rear Differential

Fluid

PETRO CANADA GEARLUBE TOS 80W140 (18 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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 | | GFL0113399 | GFL0113370 | GFL0113374 |
| Sample Date | Client Info | | 28 May 2024 | 22 Feb 2024 | 22 Feb 2024 |
| Machine Age | hrs | Client Info | 22198 | 21863 | 21863 |
| Oil Age | hrs | Client Info | 16705 | 17698 | 17698 |
| Oil Changed | | Client Info | Not Chngd | Filtered | Filtered |
| 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) >500 | 31 | 24 | 20 |
| Chromium | ppm | ASTM D5185(m) >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) >10 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) >25 | 2 | 0 | <1 |
| Lead | ppm | ASTM D5185(m) >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) >100 | <1 | 3 | <1 |
| Tin | ppm | ASTM D5185(m) >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) >5 | 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

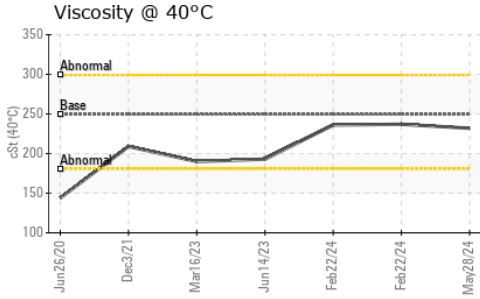
| | method | limit/base | current | history1 | history2 |
|------------|--------|--------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) 170 | 231 | 247 | 234 |
| Barium | ppm | ASTM D5185(m) 4 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 1 | <1 | <1 |
| Manganese | ppm | ASTM D5185(m) | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) 1.0 | 2 | 1 | 2 |
| Calcium | ppm | ASTM D5185(m) 16 | 26 | 20 | 26 |
| Phosphorus | ppm | ASTM D5185(m) 920 | 933 | 958 | 946 |
| Zinc | ppm | ASTM D5185(m) 8 | 16 | 12 | 16 |
| Sulfur | ppm | ASTM D5185(m) 1630 | 16067 | 16007 | 15871 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >75 | 7 | 2 | 4 |
| Sodium | ppm | ASTM D5185(m) | 1 | <1 | <1 |
| Potassium | ppm | ASTM D5185(m) >20 | <1 | 0 | <1 |



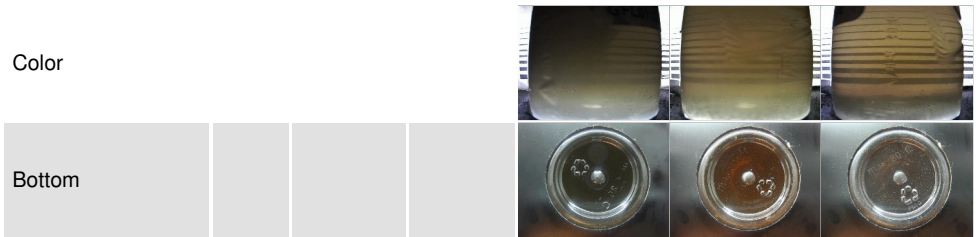
OIL ANALYSIS REPORT



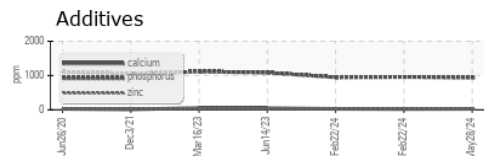
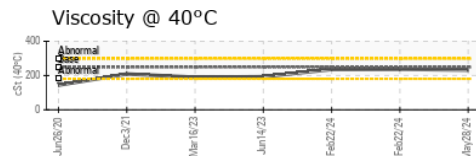
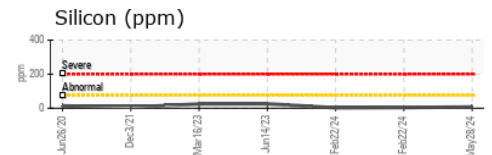
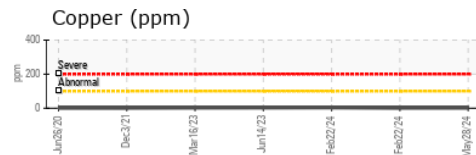
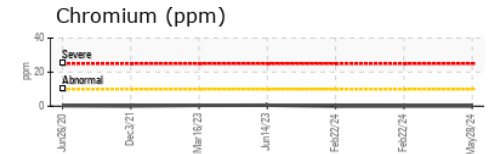
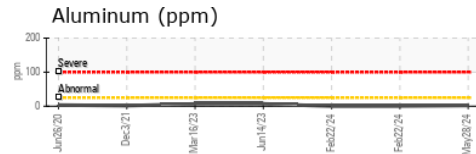
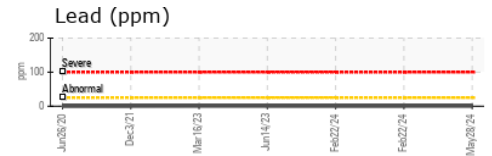
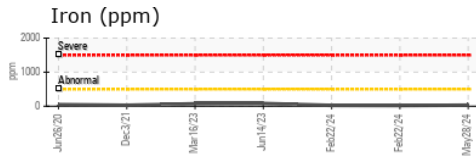
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE |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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|---------------|---------|------------|----------|-----|
| Visc @ 40°C | cSt | ASTM D7279(m) | 249.3 | 232 | 237 | 236 |

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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 720 - Lafleche - Landfill**
Sample No. : GFL0113399 **Received** : 31 May 2024 **17125 Lafleche Road,**
Lab Number : **02639220** **Tested** : 31 May 2024 **Moose Creek, ON**
Unique Number : 5788382 **Diagnosed** : 31 May 2024 - Wes Davis **CA K0C 1W0**
Test Package : MOB 1 **Contact:** Charles Bergeron
cbergeron@gflenv.com

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.