

Machine Id
Or562
Component
Rear Differential
Fluid
PETRO CANADA GEARLUBE TOS 80W140 (18 LTR)

RECOMMENDATION

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

| Test | UOM | Method | Limit/Abn | 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 |
| Filter Age | hrs | Client Info | | 16705 | 500 | 500 |
| Oil Changed | | Client Info | | Not Changed | Filtered | Filtered |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| 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 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

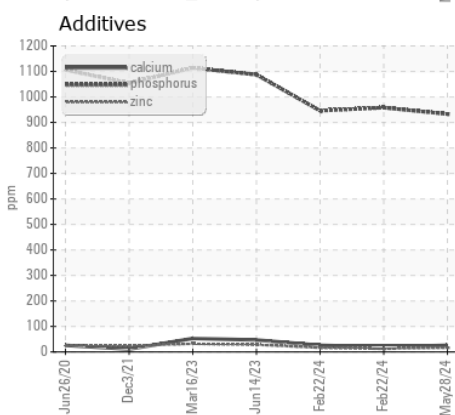
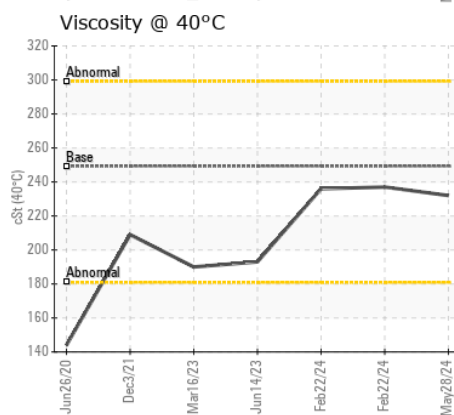
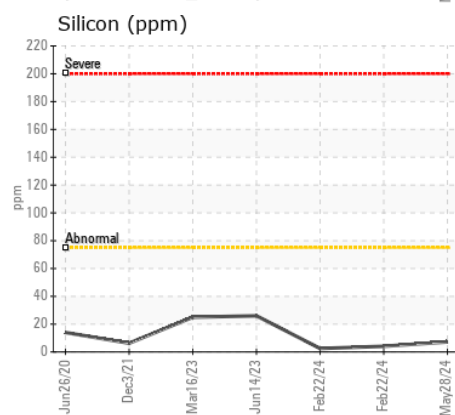
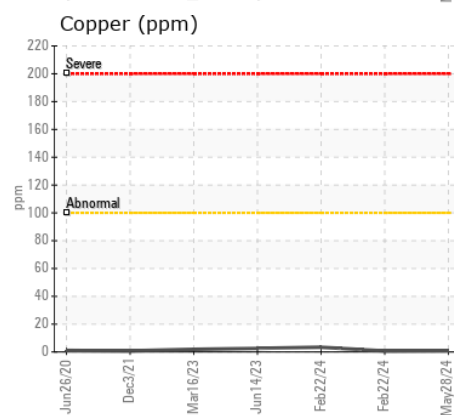
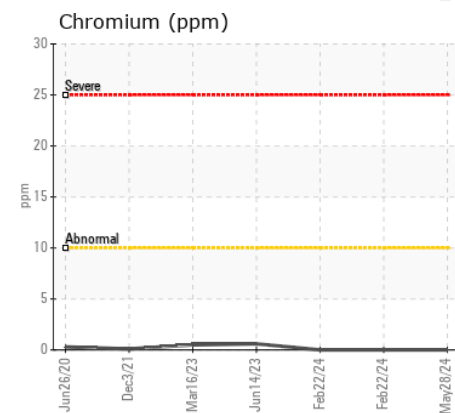
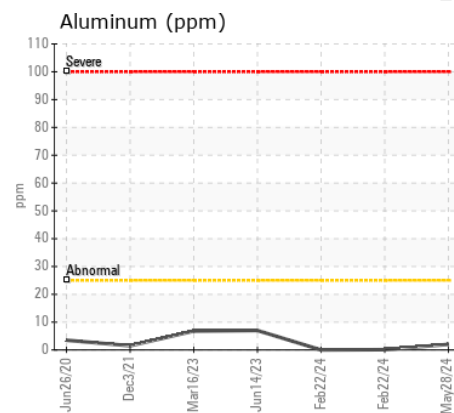
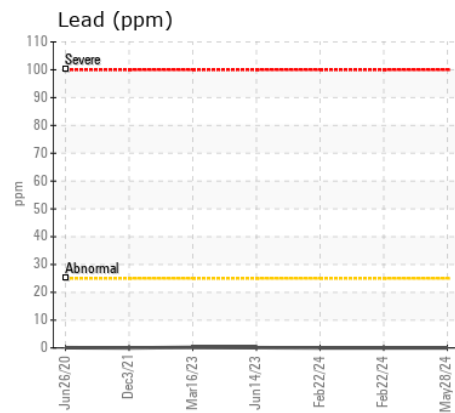
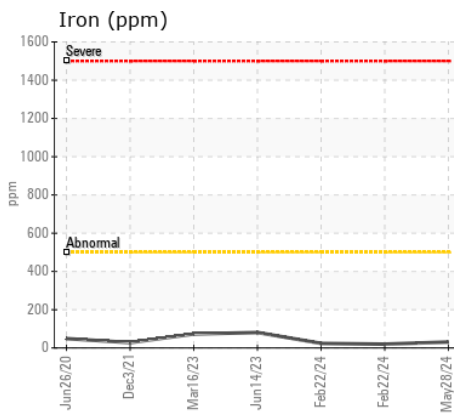
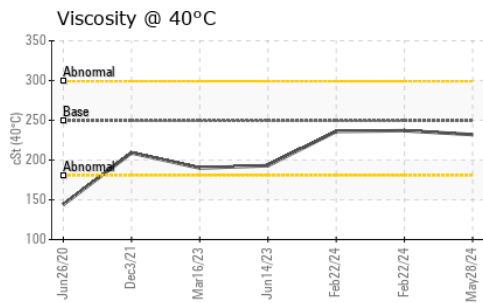
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >75 | 7 | 2 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 0 | <1 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| 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 |

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) | 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 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 249.3 | 232 | 237 | 236 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113399
Lab Number : 02639220
Unique Number : 5788382
Test Package : MOB 1
Received : 31 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Wes Davis

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.