



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

Machine Id
401022
 Component
Transmission (Auto)
 Fluid
PETRO CANADA SYNTHETIC BLEND ATF (--- GAL)

RECOMMENDATION

The fluid change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

WEAR

Aluminum and iron ppm levels are abnormal. Torque converter wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

CONTAMINATION

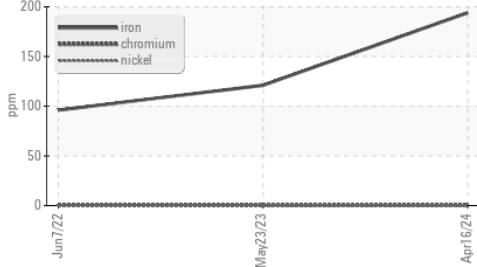
There is no indication of any contamination in the fluid.

FLUID CONDITION

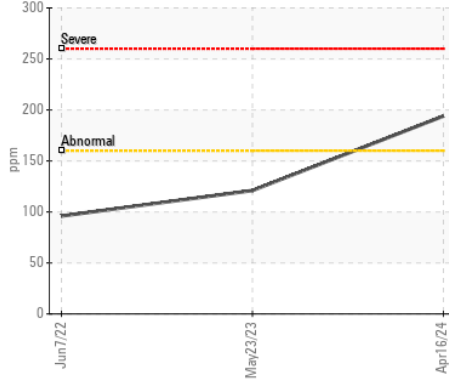
Additive levels indicate the addition of a different brand, or type of fluid. The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|---------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0117305 | GFL0077625 | GFL0052682 |
| Sample Date | | Client Info | | 16 Apr 2024 | 23 May 2023 | 07 Jun 2022 |
| Machine Age | kms | Client Info | | 21330 | 685858 | 0 |
| Oil Age | kms | Client Info | | 1822 | 0 | 0 |
| Filter Age | kms | Client Info | | 1822 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Filter Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |
| PQ | | ASTM D8184* | >50 | 6 | --- | --- |
| Iron | ppm | ASTM D5185(m) | >160 | ▲ 194 | 121 | 96 |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >50 | ▲ 84 | ▲ 65 | 46 |
| Lead | ppm | ASTM D5185(m) | >50 | 13 | 7 | 5 |
| Copper | ppm | ASTM D5185(m) | >225 | 66 | 39 | 23 |
| Tin | ppm | ASTM D5185(m) | >10 | 5 | 3 | 2 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185(m) | >20 | 17 | 14 | 13 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 2 | 2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | LIGHT | LIGHT |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185(m) | | 9 | 9 | 7 |
| Boron | ppm | ASTM D5185(m) | 90 | 69 | 75 | 83 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185(m) | | 1 | 1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 1 | 1 | 1 |
| Calcium | ppm | ASTM D5185(m) | 30 | 103 | 106 | 103 |
| Phosphorus | ppm | ASTM D5185(m) | 310 | 227 | 253 | 242 |
| Zinc | ppm | ASTM D5185(m) | 40 | 11 | 8 | 8 |
| Sulfur | ppm | ASTM D5185(m) | 2800 | 1144 | 1180 | 1183 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.26 | 1.18 | 1.19 | 1.26 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 35.0 | 31.9 | 31.9 | 32.8 |

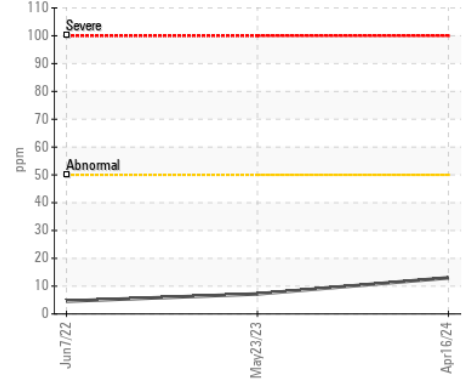
▲ Ferrous Alloys



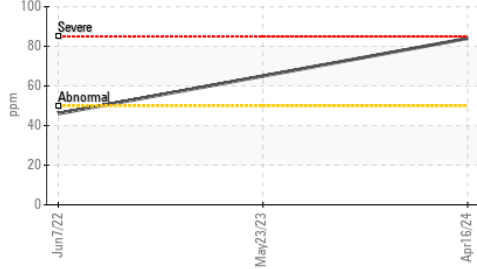
▲ Iron (ppm)



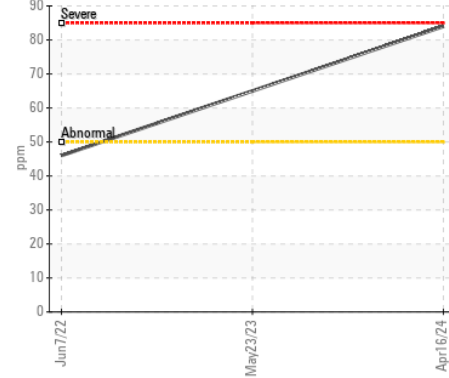
▲ Lead (ppm)



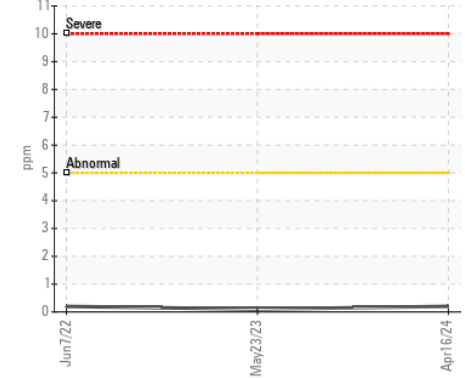
▲ Aluminum (ppm)



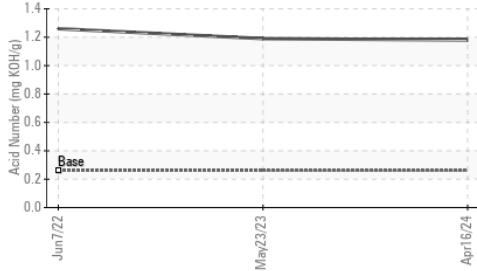
▲ Aluminum (ppm)



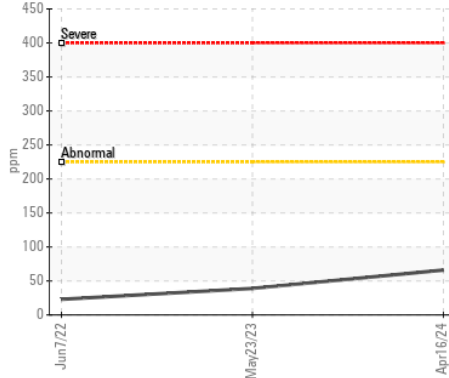
▲ Chromium (ppm)



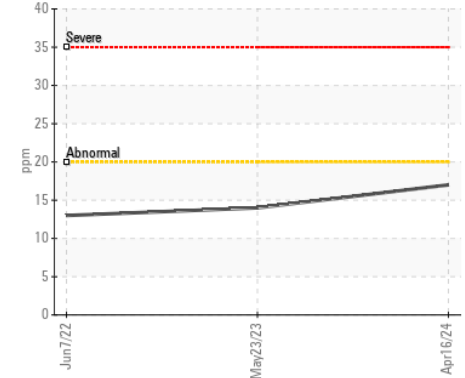
▲ Acid Number



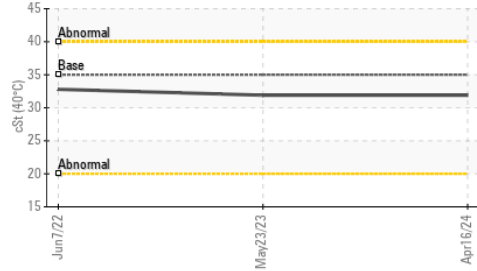
▲ Copper (ppm)



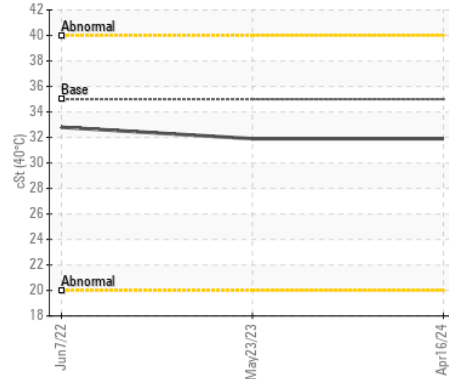
▲ Silicon (ppm)



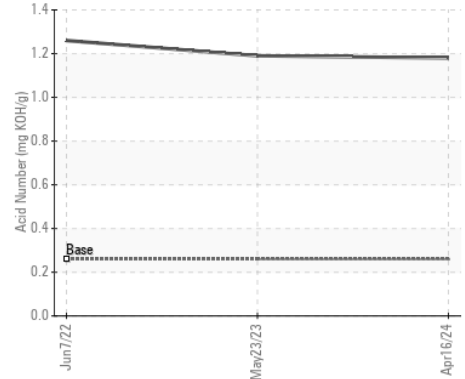
▲ Viscosity @ 40°C



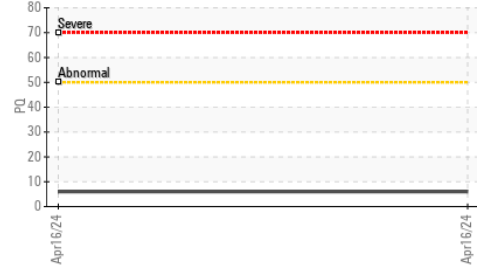
▲ Viscosity @ 40°C



▲ Acid Number



▲ PQ



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 550 - Rocky View County**
Sample No. : GFL0117305 **Received** : 23 Apr 2024 **220 Carmek Blvd**
Lab Number : 02631001 **Tested** : 23 Apr 2024 **Rocky View County, AB**
Unique Number : 5772154 **Diagnosed** : 23 Apr 2024 - Kevin Marson **CA T1X 1X1**
Test Package : MOB 2 (Additional Tests: PQ, TAN Man) **Contact: GFL Calgary**
calgarymaintenance@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.

T:
F: (403)369-6163