



Machine Id
OE444

Component
Right Final Drive

Fluid
PETRO CANADA TRAXON E SYNTHETIC 80W-140 (2 LTR)

RECOMMENDATION

The oil 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. The fluid was specified as PETRO CANADA TRAXON E SYNTHETIC 80W-140, however, a fluid match indicates that this fluid is SAE 90 Gear Oil. Please confirm the oil type and grade on your next sample.

WEAR

Chromium and iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

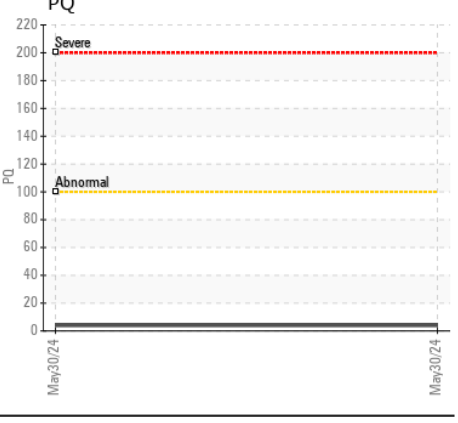
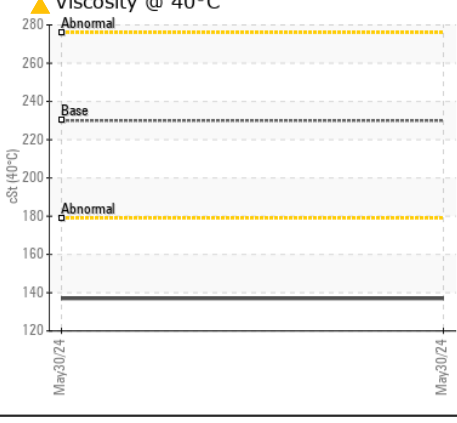
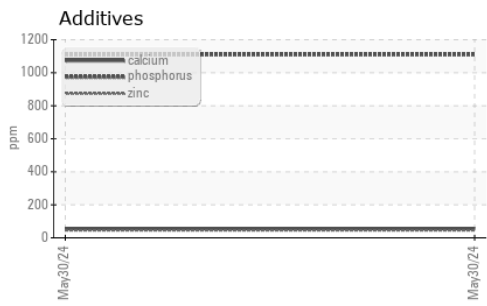
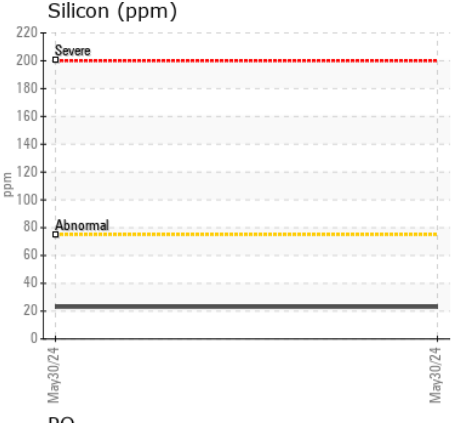
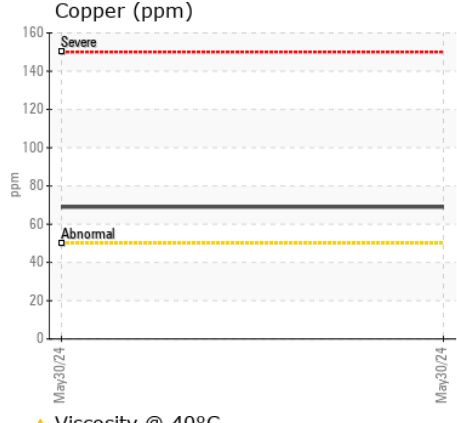
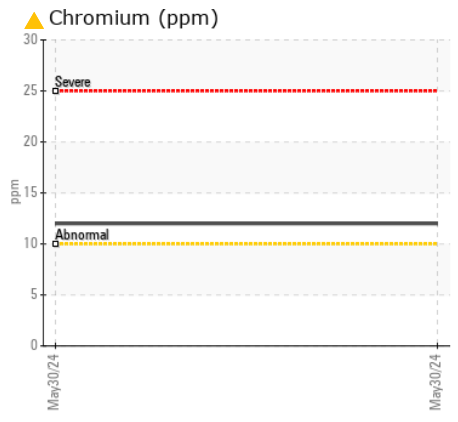
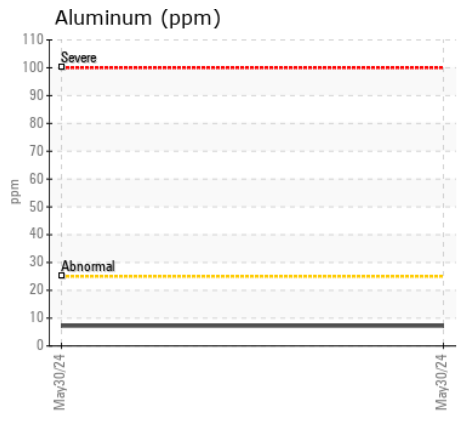
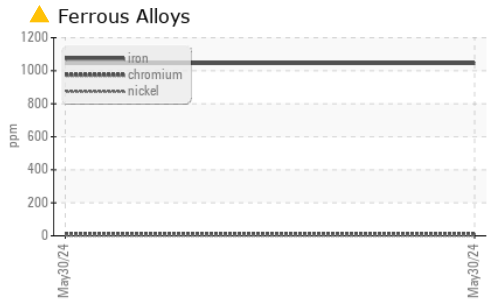
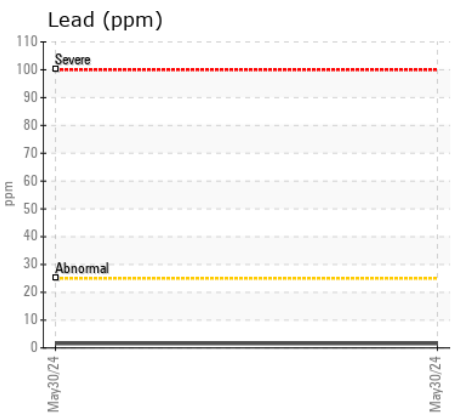
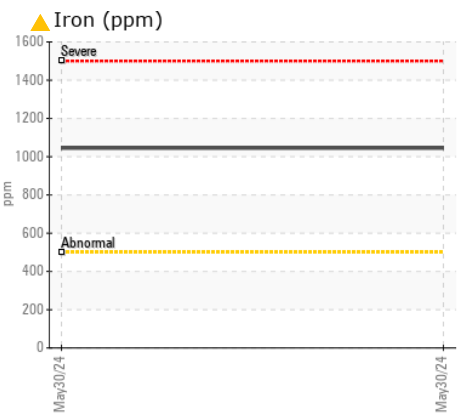
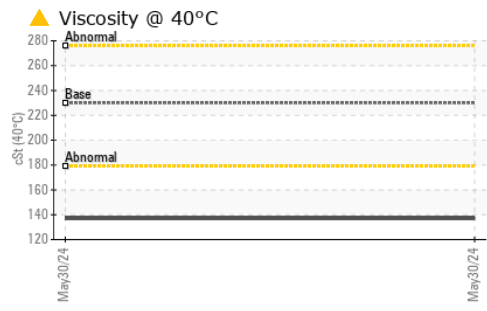
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil 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 | | GFL0124633 | --- | --- |
| Sample Date | | Client Info | | 30 May 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 947 | --- | --- |
| Oil Age | hrs | Client Info | | 500 | --- | --- |
| Filter Age | hrs | Client Info | | 500 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |
| PQ | | ASTM D8184* | | 4 | --- | --- |
| Iron | ppm | ASTM D5185(m) | >500 | ▲ 1045 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | ▲ 12 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >10 | 2 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | 3 | --- | --- |
| Silver | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | 7 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >25 | 2 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >50 | 69 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >10 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| White Metal | scalar | Visual* | NONE | VLITE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185(m) | >75 | 23 | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 16 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | --- | --- |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | 20 | --- | --- |
| Boron | ppm | ASTM D5185(m) | 202 | 123 | --- | --- |
| Barium | ppm | ASTM D5185(m) | <1 | 8 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | 21 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | <1 | 9 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | | 55 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 1209 | 1110 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 1 | 45 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 20439 | 18743 | --- | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | 230 | ▲ 137 | --- | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0124633 **Received** : 31 May 2024
Lab Number : 02639224 **Tested** : 03 Jun 2024
Unique Number : 5788386 **Diagnosed** : 03 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

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 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.