

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id TCM-2 Component

Gearbox

PETRO CANADA PURITY FG EP GEAR OIL 220 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

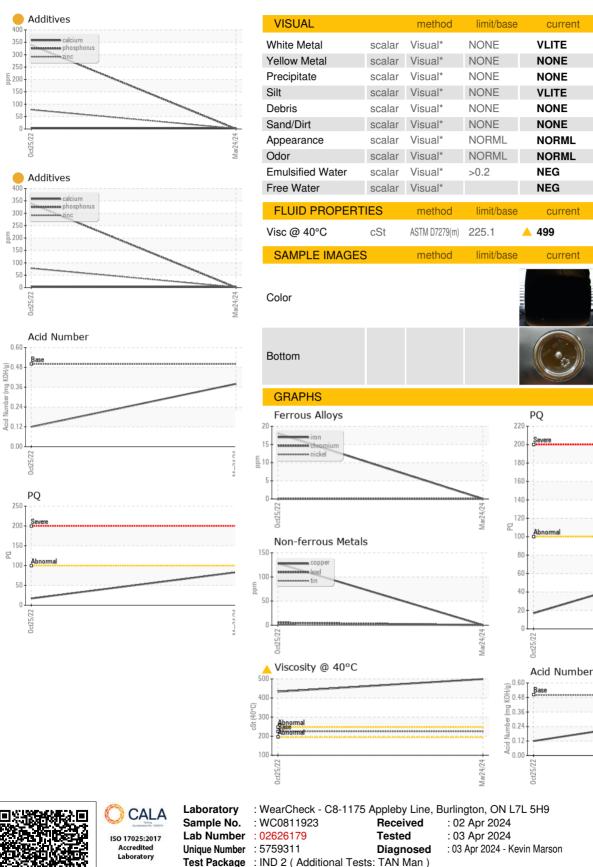
Fluid Condition

Viscosity of sample indicates oil is within ISO 460 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|------------------|----------|---------------|------------|-------------------|-------------|----------|
| Sample Number | | Client Info | | WC0811923 | WC0750972 | |
| Sample Date | | Client Info | | 24 Mar 2024 | 25 Oct 2022 | |
| Machine Age | hrs | Client Info | | 0 | 0 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | Not Changd | N/A | |
| Sample Status | | | | ABNORMAL | NORMAL | |
| CONTAMINATION | V | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | NEG | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184* | | 83 | 17 | |
| Iron | ppm | ASTM D5185(m) | >200 | 0 | 18 | |
| Chromium | ppm | ASTM D5185(m) | >15 | 0 | 0 | |
| Nickel | ppm | ASTM D5185(m) | >15 | 0 | 0 | |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 | |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | |
| Aluminum | ppm | ASTM D5185(m) | >25 | 0 | <1 | |
| Lead | ppm | ASTM D5185(m) | >100 | 0 | 5 | |
| Copper | ppm | ASTM D5185(m) | >200 | 0 | 128 | |
| Tin | ppm | ASTM D5185(m) | >25 | 0 | <1 | |
| Antimony | ppm | ASTM D5185(m) | >5 | 0 | <1 | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | | <1 | 1 | |
| Barium | ppm | ASTM D5185(m) | | 0 | <1 | |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | |
| Manganese | ppm | ASTM D5185(m) | | 0 | 4 | |
| Magnesium | ppm | ASTM D5185(m) | | <1 | 1 | |
| Calcium | ppm | ASTM D5185(m) | | 4 | 3 | |
| Phosphorus | ppm | ASTM D5185(m) | 135 | <mark> </mark> <1 | 339 | |
| Zinc | ppm | ASTM D5185(m) | | 2 | 78 | |
| Sulfur | ppm | ASTM D5185(m) | 660 | 90 | 441 | |
| Lithium | ppm | ASTM D5185(m) | | <1 | 4 | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >50 | 0 | 5 | |
| Sodium | ppm | ASTM D5185(m) | | 1 | 1 | |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | <1 | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.50 | 0.38 | 0.12 | |



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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.

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Contact/Location: Bosko Cenic - HORBUR

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

history1

NEG

NEG

433

history2

history

history2

no image

no image

Mar24/24