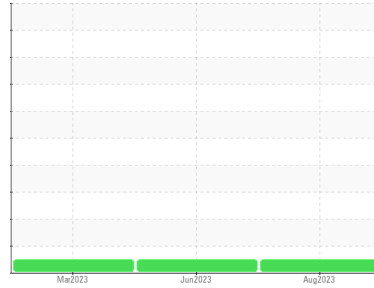




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[96970]

Machine Id
FREEZER #5 INTERNAL

Component
Gearbox

Fluid
PETRO CANADA ENDURATEX EP 460 (6 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0850453 | WC0789529 | WC0789500 |
| Sample Date | Client Info | | 18 Aug 2023 | 12 Jun 2023 | 19 Mar 2023 |
| Machine Age | days | Client Info | 0 | 0 | 90 |
| Oil Age | days | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | Changed | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|-------------|--------------------|--------------|----------|----------|
| PQ | ASTM D8184* | | 13 | 5 | 7 |
| Iron | ppm | ASTM D5185(m) >200 | 56 | 45 | 44 |
| Chromium | ppm | ASTM D5185(m) >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) >25 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) >50 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) >200 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) >5 | 0 | <1 | <1 |
| 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) 55 | <1 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) 2 | 3 | 2 | 2 |
| Calcium | ppm | ASTM D5185(m) 6 | 2 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185(m) 240 | 434 | 445 | 458 |
| Zinc | ppm | ASTM D5185(m) 3 | 12 | 9 | 10 |
| Sulfur | ppm | ASTM D5185(m) 10310 | 1139 | 1074 | 1084 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

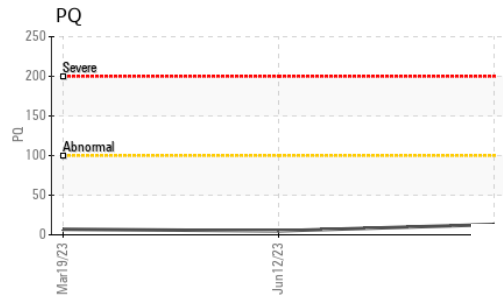
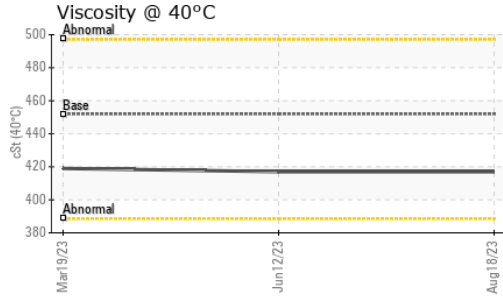
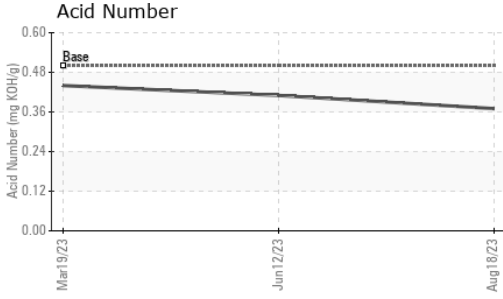
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >50 | 8 | 7 | 7 |
| Sodium | ppm | ASTM D5185(m) | 2 | 1 | 1 |
| Potassium | ppm | ASTM D5185(m) >20 | 0 | <1 | 0 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* 0.5 | 0.37 | 0.41 | 0.44 |



OIL ANALYSIS REPORT



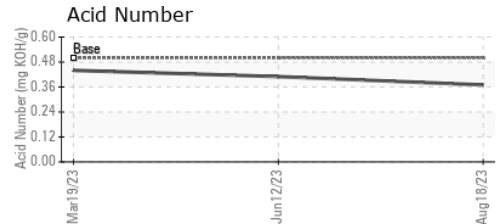
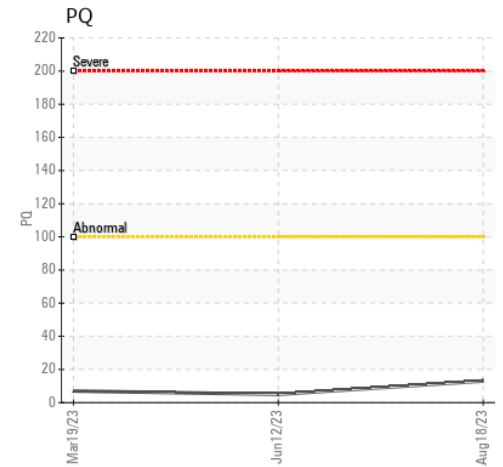
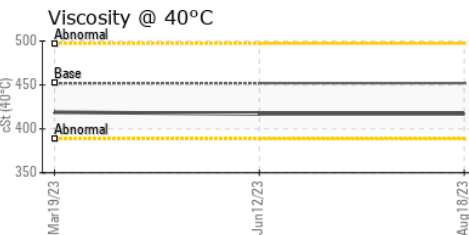
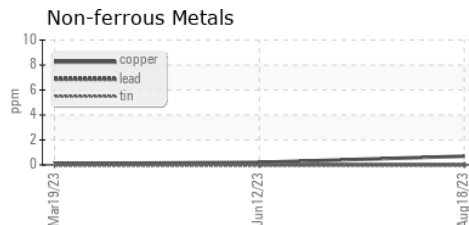
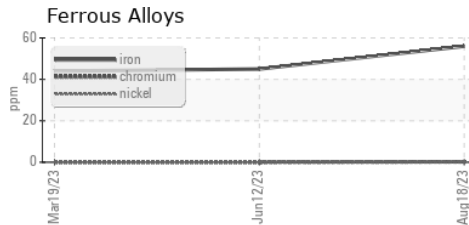
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | 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* | >0.2 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 452 | 417 | 419 |

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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0850453 Received : 21 Aug 2023
 Lab Number : 02577263 Diagnosed : 23 Aug 2023
 Unique Number : 5630323 Diagnostician : Wes Davis
 Test Package : IND 2

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 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.