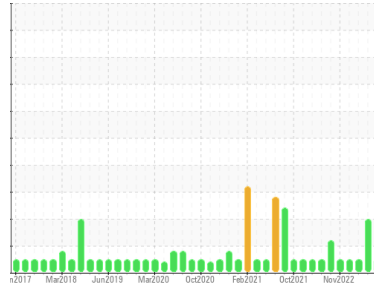


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
TEAM 15
Machine Id
156202 (S/N DIGESTER OUTLET DEVICE)
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 460 (255 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | PC0074782 | PC0070325 | PC0069795 |
| Sample Date | Client Info | | 25 Oct 2023 | 12 Apr 2023 | 15 Feb 2023 |
| Machine Age | mths | Client Info | 0 | 0 | 0 |
| Oil Age | mths | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | NORMAL | ABNORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|--------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >200 | 2 | 2 | 1 |
| Chromium | ppm | ASTM D5185(m) >15 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) >15 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) >25 | 0 | 0 | <1 |
| Lead | ppm | ASTM D5185(m) >100 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) >200 | <1 | 0 | 0 |
| Tin | ppm | ASTM D5185(m) >25 | 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 |

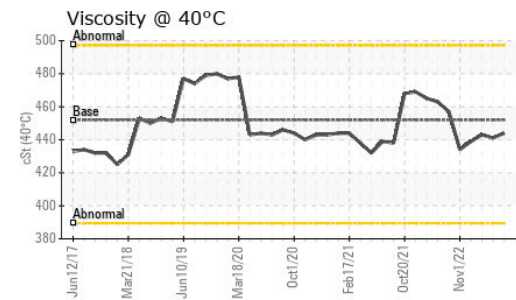
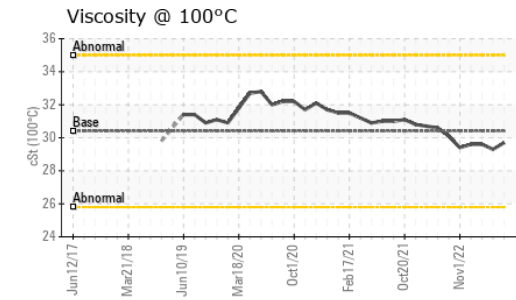
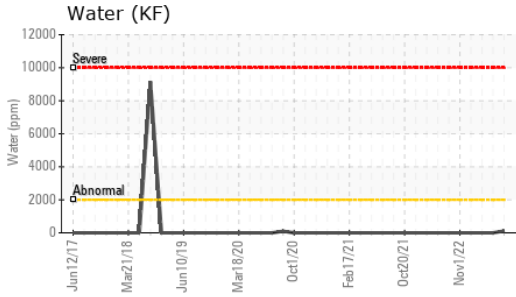
ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) 55 | 8 | 11 | 12 |
| Barium | ppm | ASTM D5185(m) 0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) 0 | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185(m) 0 | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185(m) 2 | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) 6 | 3 | 2 | 2 |
| Phosphorus | ppm | ASTM D5185(m) 240 | 224 | 258 | 262 |
| Zinc | ppm | ASTM D5185(m) 3 | 16 | 15 | 16 |
| Sulfur | ppm | ASTM D5185(m) 10310 | 5303 | 5739 | 5710 |
| Lithium | ppm | ASTM D5185(m) | 18 | 14 | 11 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >50 | 17 | 5 | 2 |
| Sodium | ppm | ASTM D5185(m) | 2 | 2 | 1 |
| Potassium | ppm | ASTM D5185(m) >20 | 2 | 2 | <1 |
| Water | % | ASTM D6304* >0.2 | 0.011 | --- | --- |
| ppm Water | ppm | ASTM D6304* >2000 | 114.0 | --- | --- |

OIL ANALYSIS REPORT

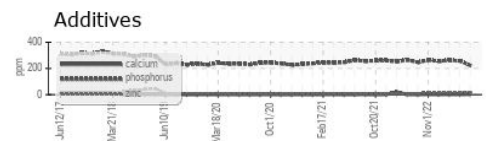
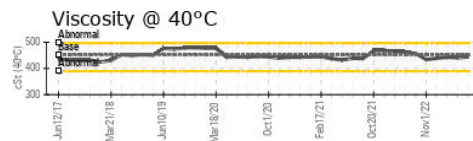
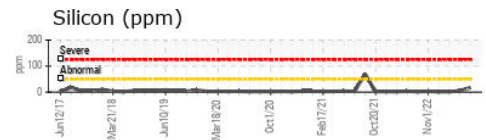
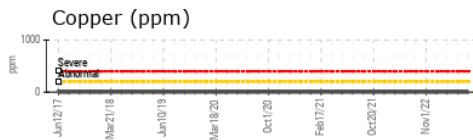
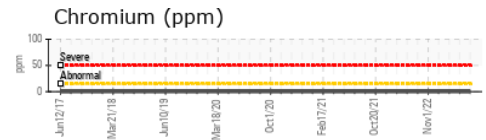
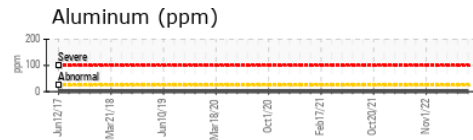
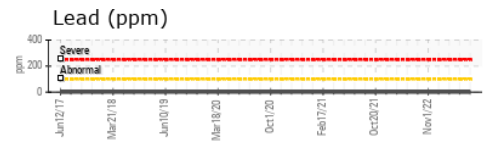
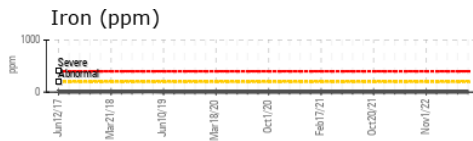


| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | VLITE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | VLITE | 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 | .2% | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|----------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 452 | 441 | 443 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 30.41 | 29.3 | 29.6 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 97 | 94 | 94 |

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074782 **Received** : 08 Nov 2023
Lab Number : 02595191 **Diagnosed** : 13 Nov 2023
Unique Number : 5672270 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KF, KV100, VI)

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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