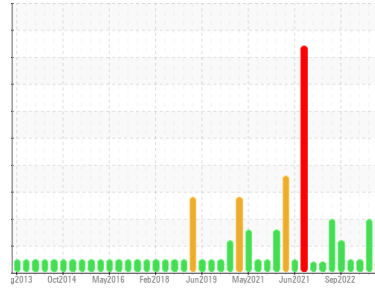




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
SAB1
 Machine Id
SAB1 G5

Component
Thrust Bearing

Fluid
PETRO CANADA TURBOFLO XL46 (1182 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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 | | | WC0642844 | WC0828620 | WC0642872 |
| Sample Date | Client Info | | | 21 Dec 2023 | 27 Aug 2023 | 27 Mar 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | Client Info | | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >2 | NEG | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|---------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) | >85 | <1 | <1 | <1 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >20 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >40 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185(m) | >60 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >7 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >40 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | <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) | | 0 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) | | <1 | <1 | 0 |
| Phosphorus | ppm | ASTM D5185(m) | | 1 | 2 | 1 |
| Zinc | ppm | ASTM D5185(m) | 0 | 1 | 2 | 1 |
| Sulfur | ppm | ASTM D5185(m) | | 693 | 657 | 651 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|---------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >20 | 5 | 5 | 5 |
| Sodium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | 0 |

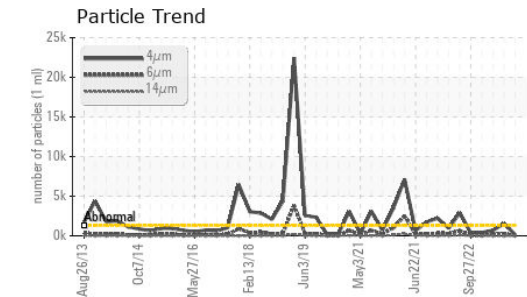
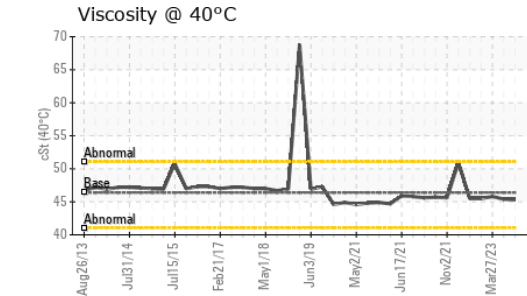
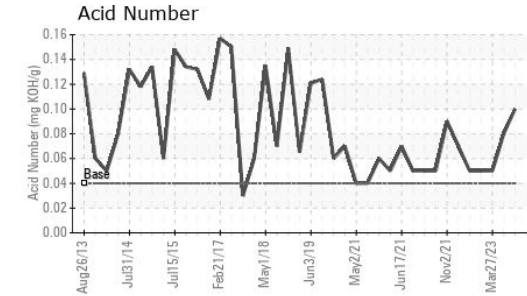
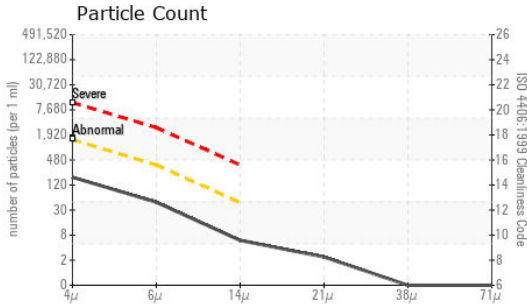
| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--------------|-----------|-----------------|------------|----------|----------|
| Particles >4µm | ASTM D7647 | >1300 | 163 | ▲ 1529 | 689 | |
| Particles >6µm | ASTM D7647 | >320 | 41 | 270 | 168 | |
| Particles >14µm | ASTM D7647 | >40 | 5 | 8 | 13 | |
| Particles >21µm | ASTM D7647 | >10 | 2 | 2 | 3 | |
| Particles >38µm | ASTM D7647 | >3 | 0 | 0 | 0 | |
| Particles >71µm | ASTM D7647 | >3 | 0 | 0 | 0 | |
| Oil Cleanliness | ISO 4406 (c) | >17/15/12 | 15/13/10 | ▲ 18/15/10 | 17/15/11 | |

Particle Filter (Magn: 200 x)





OIL ANALYSIS REPORT

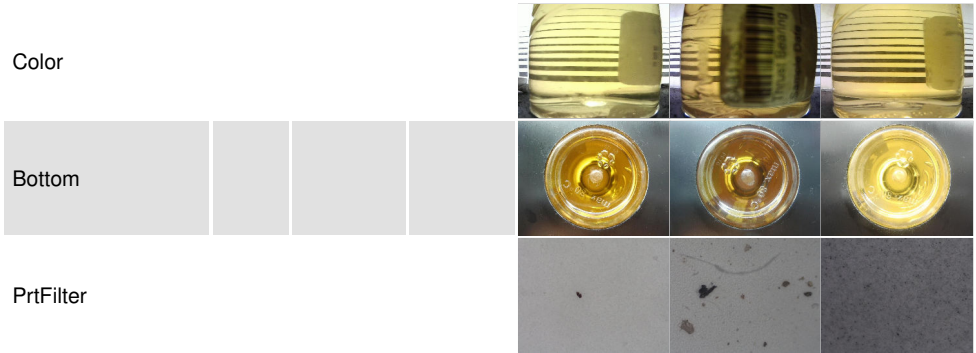


| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.04 | 0.10 | 0.08 | 0.05 |

| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | ▲ LIGHT | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >2 | NEG | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG | NEG |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|---------------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 46.39 | 45.3 | 45.4 | 45.8 |

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0642844
Lab Number : **02604993**
Unique Number : 5698078
Test Package : IND 2 (Additional Tests: BottomAnalysis, FilterPatch, PrtFilter, TAN Man)

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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.