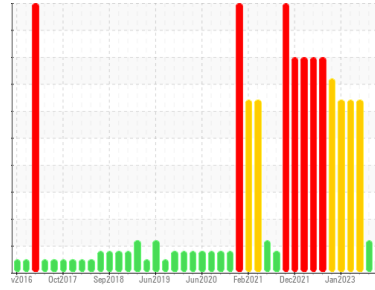


Area  
**TEAM 1**  
Machine Id  
**136120 ID Fan Inboard**  
Component  
**Bearing**  
Fluid  
**PETRO CANADA TURBOFLO R&O 100 (4 QTS)**



**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 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 | <b>PC0069892</b>   | PC0069911   | PC0070204   |
| Sample Date   | Client Info | <b>27 Sep 2023</b> | 24 Aug 2023 | 12 Apr 2023 |
| Machine Age   | hrs         | Client Info        | 0           | 0           |
| Oil Age       | hrs         | Client Info        | 0           | 0           |
| Oil Changed   | Client Info | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             | <b>NORMAL</b>      | ATTENTION   | SEVERE      |

**WEAR METALS** method limit/base current history1 history2

|           |             |               |          |              |      |       |
|-----------|-------------|---------------|----------|--------------|------|-------|
| PQ        | ASTM D8184* |               | <b>0</b> | 0            | 0    |       |
| Iron      | ppm         | ASTM D5185(m) | >20      | <b>&lt;1</b> | 6    | 8     |
| Chromium  | ppm         | ASTM D5185(m) | >20      | <b>0</b>     | 0    | 0     |
| Nickel    | ppm         | ASTM D5185(m) | >20      | <b>&lt;1</b> | 0    | 0     |
| Titanium  | ppm         | ASTM D5185(m) |          | <b>0</b>     | 0    | 0     |
| Silver    | ppm         | ASTM D5185(m) |          | <b>0</b>     | 0    | 0     |
| Aluminum  | ppm         | ASTM D5185(m) | >20      | <b>0</b>     | 0    | 0     |
| Lead      | ppm         | ASTM D5185(m) | >20      | <b>9</b>     | ▲ 46 | ● 216 |
| Copper    | ppm         | ASTM D5185(m) | >20      | <b>&lt;1</b> | 4    | 7     |
| Tin       | ppm         | ASTM D5185(m) | >20      | <b>0</b>     | 4    | 6     |
| Antimony  | ppm         | ASTM D5185(m) |          | <b>0</b>     | ▲ 7  | ▲ 12  |
| Vanadium  | ppm         | ASTM D5185(m) |          | <b>0</b>     | 0    | 0     |
| Beryllium | ppm         | ASTM D5185(m) |          | <b>0</b>     | 0    | 0     |
| Cadmium   | ppm         | ASTM D5185(m) |          | <b>0</b>     | 0    | 0     |

**ADDITIVES** method limit/base current history1 history2

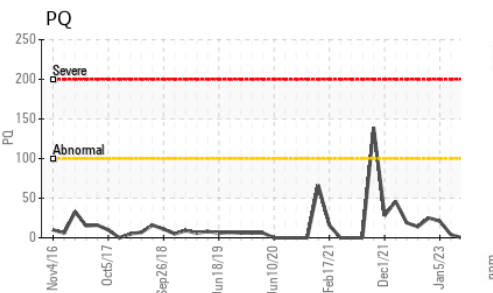
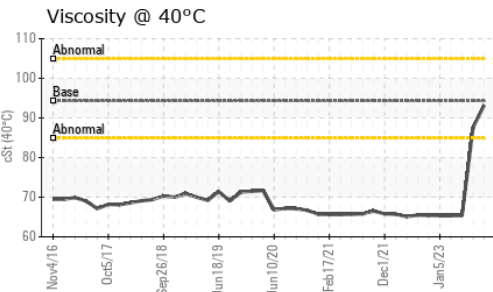
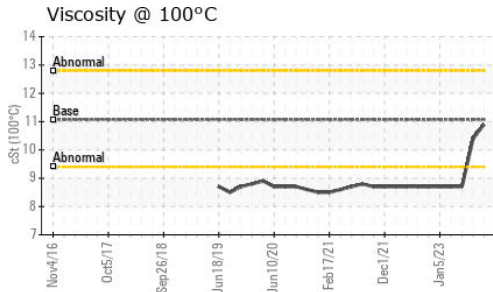
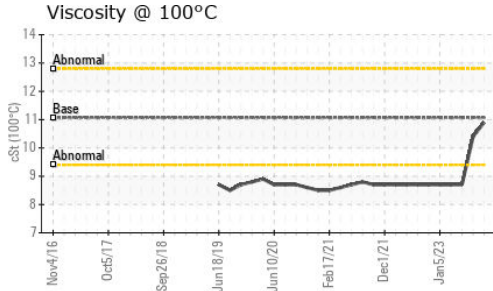
|            |     |               |   |              |     |     |
|------------|-----|---------------|---|--------------|-----|-----|
| Boron      | ppm | ASTM D5185(m) |   | <b>&lt;1</b> | 0   | <1  |
| Barium     | ppm | ASTM D5185(m) |   | <b>0</b>     | 0   | 0   |
| Molybdenum | ppm | ASTM D5185(m) |   | <b>0</b>     | 0   | 0   |
| Manganese  | ppm | ASTM D5185(m) |   | <b>0</b>     | 0   | <1  |
| Magnesium  | ppm | ASTM D5185(m) |   | <b>0</b>     | <1  | 0   |
| Calcium    | ppm | ASTM D5185(m) | 0 | <b>&lt;1</b> | 1   | 0   |
| Phosphorus | ppm | ASTM D5185(m) | 4 | <b>6</b>     | 7   | 11  |
| Zinc       | ppm | ASTM D5185(m) | 0 | <b>2</b>     | 5   | 12  |
| Sulfur     | ppm | ASTM D5185(m) |   | <b>700</b>   | 141 | 163 |
| Lithium    | ppm | ASTM D5185(m) |   | <b>&lt;1</b> | <1  | <1  |

**CONTAMINANTS** method limit/base current history1 history2

|           |     |               |     |              |    |    |
|-----------|-----|---------------|-----|--------------|----|----|
| Silicon   | ppm | ASTM D5185(m) | >15 | <b>0</b>     | 0  | <1 |
| Sodium    | ppm | ASTM D5185(m) |     | <b>&lt;1</b> | 2  | 11 |
| Potassium | ppm | ASTM D5185(m) | >20 | <b>0</b>     | <1 | 2  |

**FLUID DEGRADATION** method limit/base current history1 history2

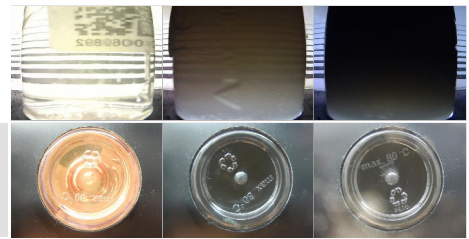
|                  |          |            |      |             |      |      |
|------------------|----------|------------|------|-------------|------|------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.09 | <b>0.07</b> | 0.06 | 0.06 |
|------------------|----------|------------|------|-------------|------|------|



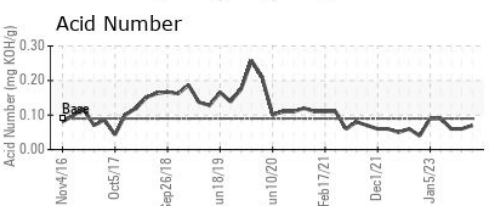
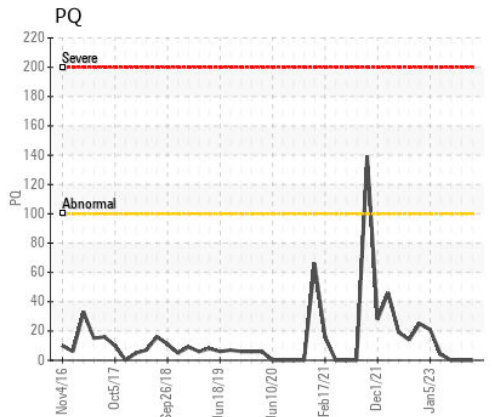
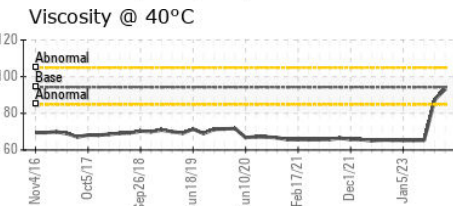
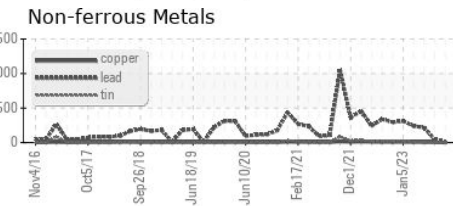
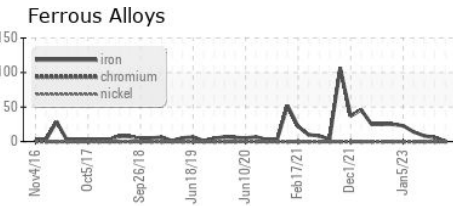
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | Visual*    | NONE    | NONE     | VLITE    |
| Yellow Metal     | scalar | Visual*    | NONE    | NONE     | NONE     |
|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

| FLUID PROPERTIES     | method | limit/base    | current | history1 | history2 |
|----------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C          | cSt    | ASTM D7279(m) | 94.3    | 93.2     | 87.5     |
| Visc @ 100°C         | cSt    | ASTM D7279(m) | 11.07   | 10.9     | 10.4     |
| Viscosity Index (VI) | Scale  | ASTM D2270*   | 103     | 101      | 100      |

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



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0069892 **Received** : 28 Sep 2023  
**Lab Number** : 02585883 **Diagnosed** : 28 Sep 2023  
**Unique Number** : 5654949 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KV100, TAN Man, VI )

**Dryden Fibre**  
 Box 3001, 1 Duke Street  
 Dryden, ON  
 CA P8N 2Z7  
 Contact: Yvon St. Laurent  
 yvon.stlaurent@domtar.com  
 T: (807)223-9838  
 F: (807)223-9176

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.