



Machine Id  
**TURBOFLO XL 46**

Component  
**Unknown Component**

Fluid  
**PETRO CANADA TURBOFLO XL46 (--- GAL)**



**DIAGNOSIS**

**Recommendation**

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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 a moderate amount of silt (particulates < 14 microns in size) present in the sample.

**Fluid Condition**

The AN level is acceptable for this fluid. The sample is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**SAMPLE INFORMATION** method limit/base current history1 history2

|               |             |             |                    |     |     |
|---------------|-------------|-------------|--------------------|-----|-----|
| Sample Number | Client Info |             | <b>PC22048588</b>  | --- | --- |
| Sample Date   | Client Info |             | <b>15 Mar 2024</b> | --- | --- |
| Machine Age   | hrs         | Client Info | <b>0</b>           | --- | --- |
| Oil Age       | hrs         | Client Info | <b>0</b>           | --- | --- |
| Oil Changed   | Client Info |             | <b>N/A</b>         | --- | --- |
| Sample Status |             |             | <b>ABNORMAL</b>    | --- | --- |

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

|       |           |  |            |     |     |
|-------|-----------|--|------------|-----|-----|
| Water | WC Method |  | <b>NEG</b> | --- | --- |
|-------|-----------|--|------------|-----|-----|

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

|           |     |               |              |     |     |
|-----------|-----|---------------|--------------|-----|-----|
| PQ        |     | ASTM D8184*   | <b>0</b>     | --- | --- |
| Iron      | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Chromium  | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Nickel    | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Titanium  | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Silver    | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Aluminum  | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Lead      | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Copper    | ppm | ASTM D5185(m) | <b>&lt;1</b> | --- | --- |
| Tin       | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Antimony  | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Vanadium  | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |
| Cadmium   | ppm | ASTM D5185(m) | <b>0</b>     | --- | --- |

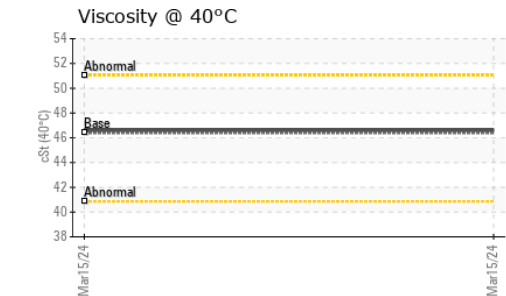
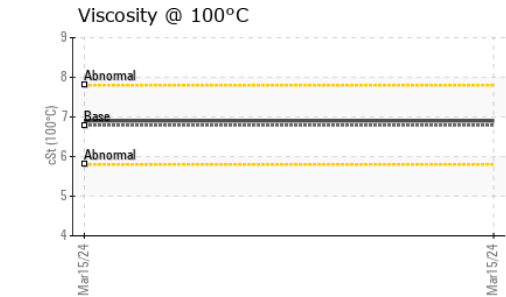
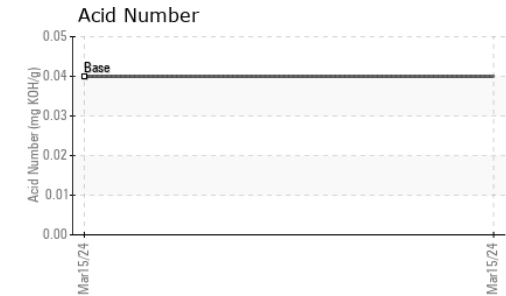
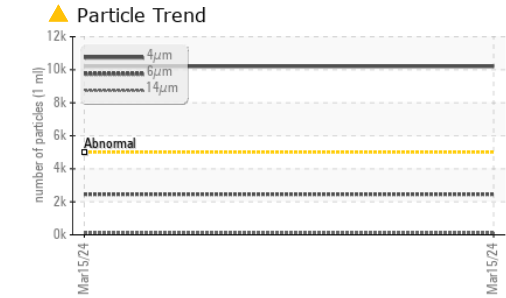
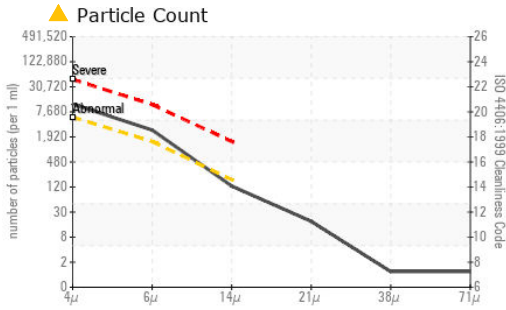
**ADDITIVES** method limit/base current history1 history2

|            |     |                 |              |     |     |
|------------|-----|-----------------|--------------|-----|-----|
| Boron      | ppm | ASTM D5185(m)   | <b>0</b>     | --- | --- |
| Barium     | ppm | ASTM D5185(m)   | <b>0</b>     | --- | --- |
| Molybdenum | ppm | ASTM D5185(m)   | <b>0</b>     | --- | --- |
| Manganese  | ppm | ASTM D5185(m)   | <b>0</b>     | --- | --- |
| Magnesium  | ppm | ASTM D5185(m)   | <b>0</b>     | --- | --- |
| Calcium    | ppm | ASTM D5185(m)   | <b>&lt;1</b> | --- | --- |
| Phosphorus | ppm | ASTM D5185(m)   | <b>2</b>     | --- | --- |
| Zinc       | ppm | ASTM D5185(m) 0 | <b>2</b>     | --- | --- |
| Sulfur     | ppm | ASTM D5185(m)   | <b>672</b>   | --- | --- |
| Lithium    | ppm | ASTM D5185(m)   | <b>&lt;1</b> | --- | --- |

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

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

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC22048588  
**Lab Number** : 02623719  
**Unique Number** : 5748838  
**Test Package** : IND 2 ( Additional Tests: KV100, PQ, PrtCount, VI )

**Ontario Power Generation**  
 167 BURWOOD RD, P.O. BOX 10159  
 THUNDER BAY, ON  
 CA P7B 6T7  
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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.

| FLUID CLEANLINESS | method       | limit/base | current    | history1 | history2 |
|-------------------|--------------|------------|------------|----------|----------|
| Particles >4µm    | ASTM D7647   | >5000      | ▲ 10203    | ---      | ---      |
| Particles >6µm    | ASTM D7647   | >1300      | ● 2456     | ---      | ---      |
| Particles >14µm   | ASTM D7647   | >160       | 112        | ---      | ---      |
| Particles >21µm   | ASTM D7647   | >40        | 16         | ---      | ---      |
| Particles >38µm   | ASTM D7647   | >10        | 1          | ---      | ---      |
| Particles >71µm   | ASTM D7647   | >3         | 1          | ---      | ---      |
| Oil Cleanliness   | ISO 4406 (c) | >19/17/14  | ▲ 21/18/14 | ---      | ---      |

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

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

| FLUID PROPERTIES     | method            | limit/base | current | history1 | history2 |
|----------------------|-------------------|------------|---------|----------|----------|
| Visc @ 40°C          | cSt ASTM D7279(m) | 46.39      | 46.6    | ---      | ---      |
| Visc @ 100°C         | cSt ASTM D7279(m) | 6.79       | 6.9     | ---      | ---      |
| Viscosity Index (VI) | Scale ASTM D2270* | 100        | 103     | ---      | ---      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color         |        |            |         | no image | no image |
| Bottom        |        |            |         | no image | no image |