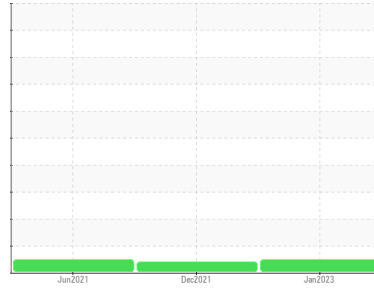




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
FA6-6G2-GGB

Component
Bearing

Fluid
PETRO CANADA TURBOFLO XL46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

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 | | | WC0618998 | WC0550981 | WC0550986 |
| Sample Date | Client Info | | | 12 Jan 2023 | 14 Dec 2021 | 01 Jun 2021 |
| Machine Age | days | Client Info | | 883 | 489 | 293 |
| Oil Age | days | Client Info | | 0 | 0 | 0 |
| Oil Changed | Client Info | | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | ATTENTION | NORMAL |

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

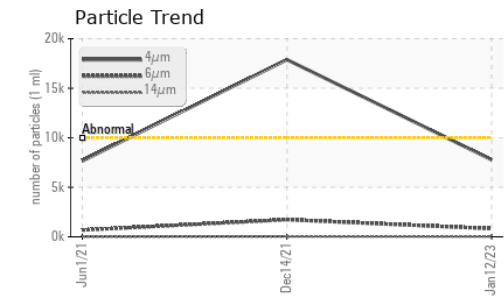
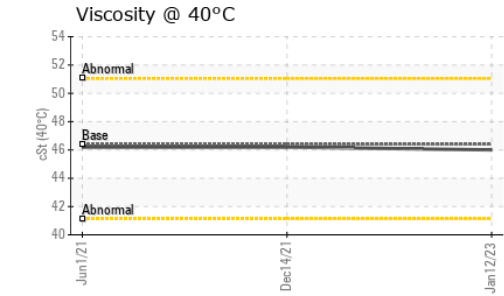
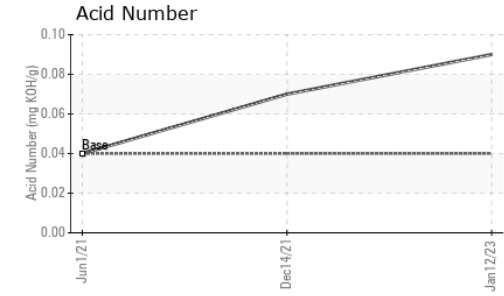
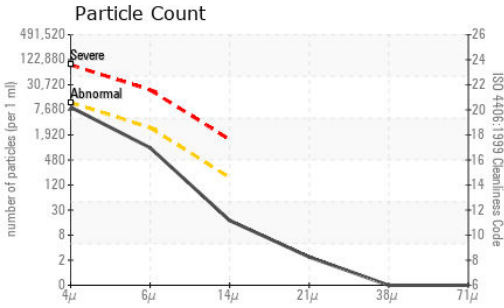
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|---------------|------------|--------------|----------|----------|
| PQ | | ASTM D8184* | | 0 | --- | --- |
| Iron | ppm | ASTM D5185(m) | >20 | <1 | 0 | <1 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 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 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >20 | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185(m) | >20 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >20 | 0 | <1 | 0 |
| Antimony | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| 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) | | <1 | 0 | <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) | | <1 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Phosphorus | ppm | ASTM D5185(m) | | 6 | 7 | 8 |
| Zinc | ppm | ASTM D5185(m) | 0 | 2 | 2 | 2 |
| Sulfur | ppm | ASTM D5185(m) | | 820 | 792 | 848 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|---------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >15 | <1 | <1 | <1 |
| Sodium | ppm | ASTM D5185(m) | | <1 | 0 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | <1 | 0 |



OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0618998
Lab Number : 02534300
Unique Number : 5515299
Test Package : IND 2 (Additional Tests: PrtCount, TAN Man)

Ontario Power Generation - Northeast Operations
 801 MOUNTJOY ST S, BOX 966
 TIMMINS, ON
 CA P4N 7H1

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.

Received : 19 Jan 2023
Tested : 20 Jan 2023
Diagnosed : 23 Jan 2023 - Kevin Marson
 Contact: Joey De Pinto
 joey.depinto@opg.com
 T: (705)363-0268
 F:

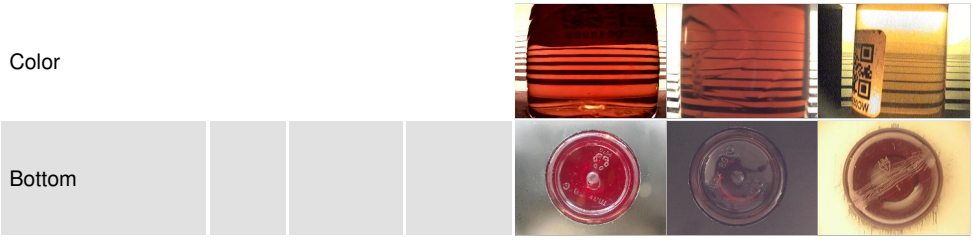
| FLUID CLEANLINESS | method | limit/base | current | history1 | history2 |
|-------------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >10000 | 7779 | 17886 | 7662 |
| Particles >6µm | ASTM D7647 | >2500 | 825 | 1735 | 677 |
| Particles >14µm | ASTM D7647 | >160 | 15 | 32 | 8 |
| Particles >21µm | ASTM D7647 | >40 | 2 | 5 | 1 |
| Particles >38µm | ASTM D7647 | >10 | 0 | 0 | 0 |
| Particles >71µm | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >20/18/14 | 20/17/11 | 21/18/12 | 20/17/10 |

| FLUID DEGRADATION | method | limit/base | current | history1 | history2 |
|-------------------|---------------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D974* | 0.04 | 0.09 | 0.07 | 0.04 |

| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|----------------|------------|--------------|----------|----------|
| White Metal | scalar Visual* | NONE | NONE | NONE | 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 | 46.0 | 46.2 | 46.2 |

SAMPLE IMAGES



Color

Bottom