

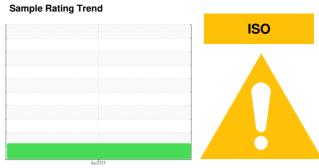
## **OIL ANALYSIS REPORT**

[450316344]

# **CG-062105 AFT CENTER THRUSTER**

Steering

{not provided} (--- GAL)



### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. 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 fluid.

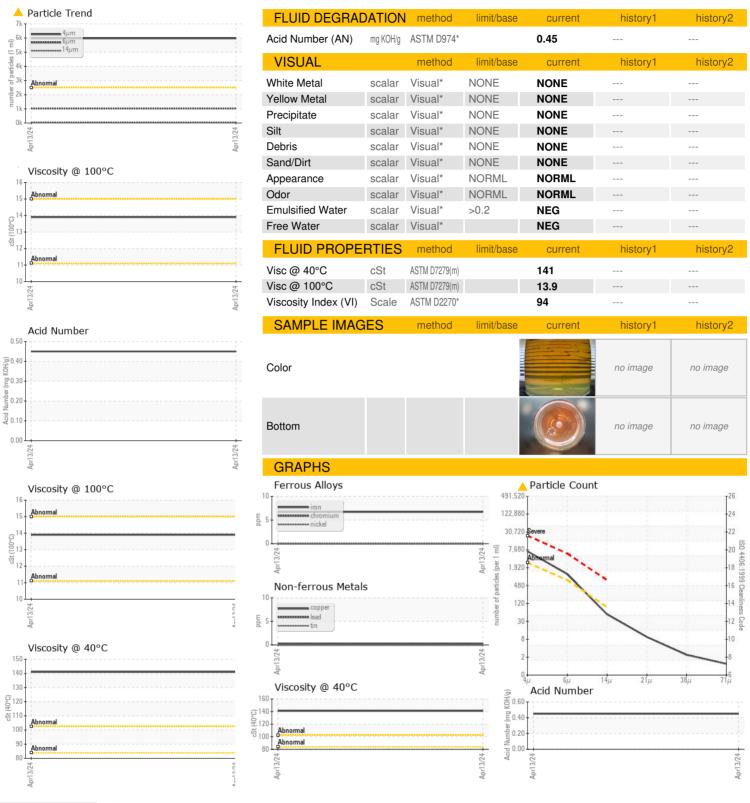
#### **Fluid Condition**

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

|                     |         |                             |            | Apr2024       |          |          |
|---------------------|---------|-----------------------------|------------|---------------|----------|----------|
|                     |         |                             |            |               |          |          |
| SAMPLE INFORM       | MATION  | method                      | limit/base | current       | history1 | history2 |
| Sample Number       |         | Client Info                 |            | PC            |          |          |
| Sample Date         |         | Client Info                 |            | 13 Apr 2024   |          |          |
| Machine Age         | hrs     | Client Info                 |            | 0             |          |          |
| Oil Age             | hrs     | Client Info                 |            | 0             |          |          |
| Oil Changed         |         | Client Info                 |            | N/A           |          |          |
| Sample Status       |         |                             |            | ABNORMAL      |          |          |
| CONTAMINATI         | ION     | method                      | limit/base | current       | history1 | history2 |
| Water               |         | WC Method                   | >0.2       | NEG           |          |          |
| WEAR METALS         | S       | method                      | limit/base | current       | history1 | history2 |
| Iron                | ppm     | ASTM D5185(m)               | >50        | 7             |          |          |
| Chromium            | ppm     | ASTM D5185(m)               | >15        | 0             |          |          |
| Nickel              | ppm     | ASTM D5185(m)               | >5         | 0             |          |          |
| Titanium            | ppm     | ASTM D5185(m)               |            | 0             |          |          |
| Silver              | ppm     | ASTM D5185(m)               |            | 0             |          |          |
| Aluminum            | ppm     | ASTM D5185(m)               | >5         | 0             |          |          |
| Lead                | ppm     | ASTM D5185(m)               | >10        | 0             |          |          |
| Copper              | ppm     | ASTM D5185(m)               | >50        | <1            |          |          |
| Tin                 | ppm     | ASTM D5185(m)               | >5         | 0             |          |          |
| Antimony            | ppm     | ASTM D5185(m)               |            | 0             |          |          |
| Vanadium            | ppm     | ASTM D5185(m)               |            | 0             |          |          |
| Beryllium           | ppm     | ASTM D5185(m)               |            | 0             |          |          |
| Cadmium             | ppm     | ASTM D5185(m)               |            | 0             |          |          |
| ADDITIVES           |         | method                      | limit/base | current       | history1 | history2 |
| Boron               | ppm     | ASTM D5185(m)               |            | 2             |          |          |
| Barium              | ppm     | ASTM D5185(m)               |            | 0             |          |          |
| Molybdenum          | ppm     | ASTM D5185(m)               |            | 0             |          |          |
| Manganese           | ppm     | ASTM D5185(m)               |            | 0             |          |          |
| Magnesium           | ppm     | ASTM D5185(m)               |            | <1            |          |          |
| Calcium             | ppm     | ASTM D5185(m)               |            | 2             |          |          |
| Phosphorus          | ppm     | ASTM D5185(m)               |            | 284           |          |          |
| Zinc                | ppm     | ASTM D5185(m)               |            | 6             |          |          |
| Sulfur              | ppm     | ASTM D5185(m)               |            | 7141          |          |          |
| Lithium             | ppm     | ASTM D5185(m)               |            | <1            |          |          |
| CONTAMINAN          |         | method                      | limit/base | current       | history1 | history2 |
|                     |         |                             |            |               |          |          |
| Silicon             | ppm     | ASTM D5185(m)               | >15        | 1             |          |          |
| Sodium<br>Potassium | ppm     | ASTM D5185(m) ASTM D5185(m) | >20        | <1<br>0       |          |          |
|                     | ppm     | , ,                         |            |               |          |          |
| FLUID CLEANL        | TINE 22 | method<br>ASTM D7647        | limit/base | current  5973 | history1 | history2 |
| Particles >4µm      |         |                             | >2500      |               |          |          |
| Particles >6µm      |         | ASTM D7647                  | >640       | 1024          |          |          |
| Particles >14µm     |         | ASTM D7647                  | >80        | 46            |          |          |
| Particles >21µm     |         | ASTM D7647                  | >20        | 8             |          |          |
| Particles >38µm     |         | ASTM D7647                  | >4         | 2             |          |          |
| Particles >71µm     |         | ASTM D7647                  | >3         | 1             |          |          |
| Oil Cleanliness     |         | ISO 4406 (c)                | >18/16/13  | <u> </u>      |          |          |



## OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sample No.

: PC Lab Number : 02634772 Unique Number : 5775925

Tested Test Package: MAR 2 (Additional Tests: KV100, PrtCount, VI)

Validity of results and interpretation are based on the sample and information as supplied.

: 17 May 2024 Diagnosed : 17 May 2024 - Kevin Marson

: 10 May 2024

Received

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. **Suncor - Terra Nova Projects** Scotia Centre, 235 Water Strret St. John's, NL

> CA A1C 1B6 Contact: Deanne Badcock dbadcock@suncor.com

> > T: (709)778-3843 F: (709)724-2784