



OIL ANALYSIS REPORT

| | |
|---------------|--------|
| WEAR | NORMAL |
| CONTAMINANTS | NORMAL |
| OIL CONDITION | NORMAL |

Area
(C-GSNF)
Machine Id
BEECHCRAFT PCE-RC0011
Component
Right Jet Turbine
Fluid
EASTMAN TURBO OIL 2380 (10 LTR)

RECOMMENDATION

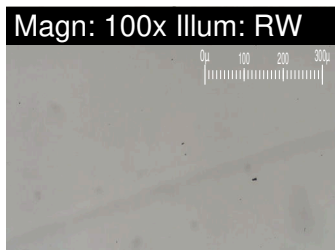
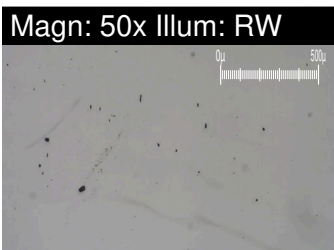
Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0944749 | WC0925732 | WC0910026 |
| Sample Date | | Client Info | | 19 Jun 2024 | 23 Apr 2024 | 06 Mar 2024 |
| TSN | hrs | Client Info | | 6079 | 5884 | 5702 |
| TSO | hrs | Client Info | | 2578 | 2382 | 2200 |
| Oil Age | hrs | Client Info | | 1067 | 871 | 689 |
| Filter Age | hrs | Client Info | | 33 | 820 | 638 |
| Oil Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Filter Changed | | Client Info | | Changed | Not Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

| | | | | | | |
|----------------------------|------------|---------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185(m) | >8 | 0 | 0 | 0 |
| Chromium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >2 | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >3 | <1 | 0 | 0 |
| Tin | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Large Particles | | DR-Ferr* | | 0.0 | 1.6 | 2.4 |
| Small Particles | | DR-Ferr* | | 2.6 | 0.9 | 2.1 |
| Total Particles | | DR-Ferr* | >--- | 2.6 | 2.5 | 4.5 |
| Large Particles Percentage | % | DR-Ferr* | | 0 | 28 | 6.7 |
| Severity Index | | DR-Ferr* | | 0 | 1 | 1 |
| Ferrous Rubbing | Scale 0-10 | ASTM D7684* | | 2 | 1 | 1 |
| Ferrous Sliding | Scale 0-10 | ASTM D7684* | | | | |
| Ferrous Cutting | Scale 0-10 | ASTM D7684* | | | | |
| Ferrous Rolling | Scale 0-10 | ASTM D7684* | | 1 | 1 | 1 |
| Ferrous Break-in | Scale 0-10 | ASTM D7684* | | | | |
| Ferrous Spheres | Scale 0-10 | ASTM D7684* | | | | |
| Ferrous Black Oxides | Scale 0-10 | ASTM D7684* | | | | |
| Ferrous Red Oxides | Scale 0-10 | ASTM D7684* | | | | |
| Ferrous Corrosive | Scale 0-10 | ASTM D7684* | | | | |
| Ferrous Other | Scale 0-10 | ASTM D7684* | | | | |
| Nonferrous Rubbing | Scale 0-10 | ASTM D7684* | | | | |
| Nonferrous Sliding | Scale 0-10 | ASTM D7684* | | | | |
| Nonferrous Cutting | Scale 0-10 | ASTM D7684* | | | | |
| Nonferrous Rolling | Scale 0-10 | ASTM D7684* | | | | |
| Nonferrous Other | Scale 0-10 | ASTM D7684* | | | | |



CONTAMINANTS

The water content is negligible. There is no indication of any contamination in the oil.

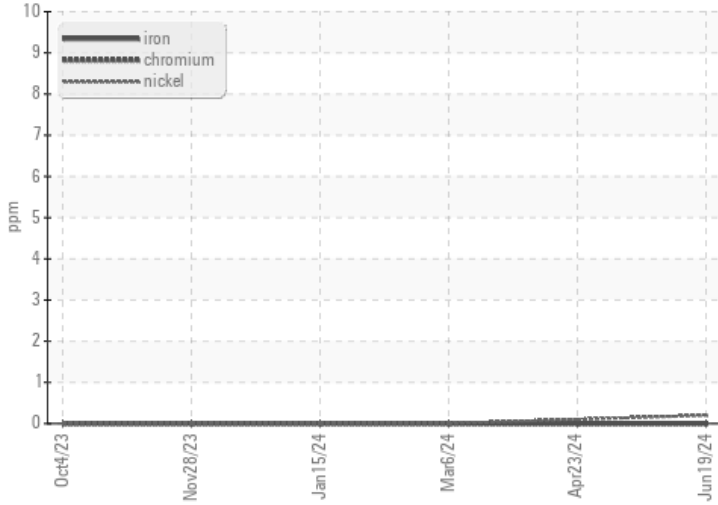
| | | | | | | |
|-----------------------|------------|---------------|-------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >8 | 4 | 3 | 3 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Water | % | ASTM D6304* | >0.1 | 0.058 | 0.027 | 0.015 |
| ppm Water | ppm | ASTM D6304* | >1000 | 588 | 278 | 150 |
| 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* | >0.1 | NEG | NEG | NEG |
| Carbonaceous Material | Scale 0-10 | ASTM D7684* | | | | |
| Sand/Dirt | Scale 0-10 | ASTM D7684* | | 1 | | |
| Fibres | Scale 0-10 | ASTM D7684* | | | | |
| Spheres | Scale 0-10 | ASTM D7684* | | | | |
| Other | Scale 0-10 | ASTM D7684* | | 1 | 1 | 1 |

OIL CONDITION

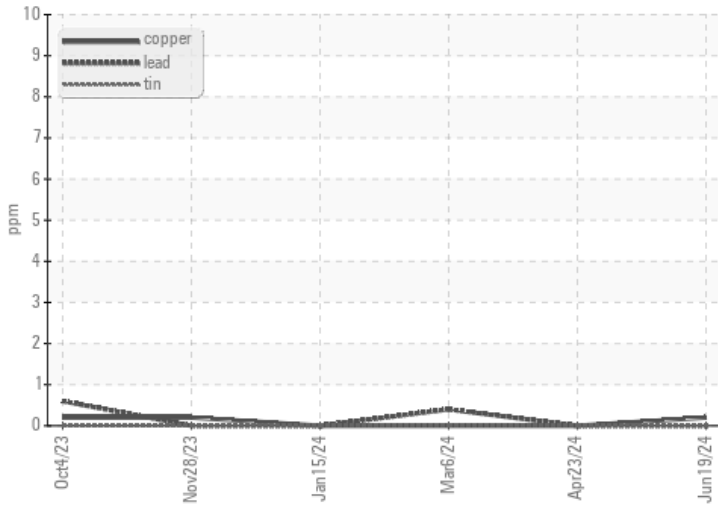
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|-----------------------|------------|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Boron | ppm | ASTM D5185(m) | 0 | <1 | <1 | 0 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185(m) | 2500 | 2585 | 2669 | 2709 |
| Zinc | ppm | ASTM D5185(m) | 0 | 2 | 1 | 1 |
| Sulfur | ppm | ASTM D5185(m) | 0 | 9 | 4 | 0 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.43 | 0.27 | 0.35 | 0.31 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 24.2 | 24.0 | 24.5 | 24.1 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 4.97 | 5.0 | 4.9 | 5.0 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 134 | 138 | 125 | 137 |
| Lubricant Degradation | Scale 0-10 | ASTM D7684* | | | | |

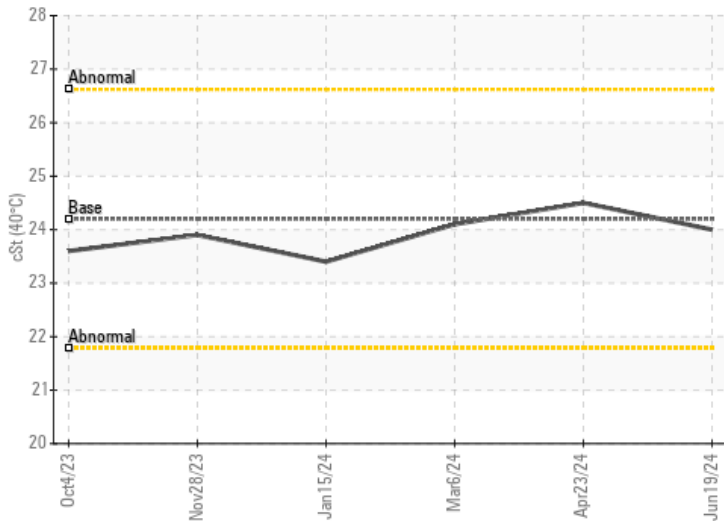
Ferrous Alloys



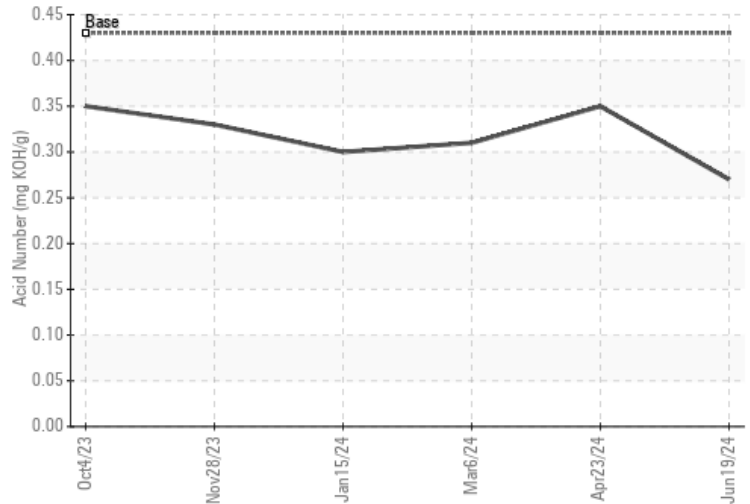
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0944749
Lab Number : 02643396
Unique Number : 5800935
Test Package : AVI 3

Received : 21 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Kevin Marson

Skynorth Air
 175 West Hangar Road
 Winnipeg, MB
 CA R3J 3Z1

Contact: Rowena Roopchand
 parts@skynorthair.com

T: (204)338-8039
 F:

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.

This page left intentionally blank