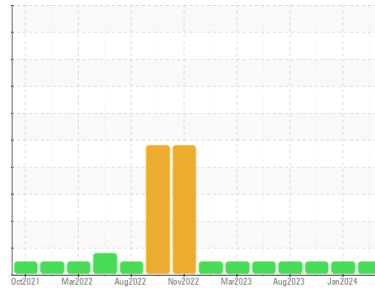




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

(C-GQNJ)

Machine Id

[C-GQNJ] BEECHCRAFT KING AIR 200 PCE-PJ1306

Component

Left Jet Turbine

Fluid

EASTMAN TURBO OIL 2380 (12 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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

Contaminants

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

Oil 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 | | WC0911748 | WC0887240 | WC0866217 |
| Sample Date | Client Info | | 01 Apr 2024 | 08 Jan 2024 | 30 Oct 2023 |
| TSN | hrs | Client Info | 5524 | 5330 | 5102 |
| TSO | hrs | Client Info | 5524 | 5330 | 5102 |
| Oil Age | hrs | Client Info | 795 | 600 | 372 |
| Oil Changed | | Client Info | N/A | N/A | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|----------|----------|----|
| Iron | ppm | ASTM D5185(m) | >8 | 0 | 0 | 0 |
| Chromium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >2 | 0 | <1 | 0 |
| Lead | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Tin | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 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) | 0 | 0 | 0 | <1 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 0 | <1 | <1 | 0 |
| Calcium | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185(m) | 2500 | 2660 | 2708 | 2641 |
| Zinc | ppm | ASTM D5185(m) | 0 | <1 | 1 | 1 |
| Sulfur | ppm | ASTM D5185(m) | 0 | 2 | 0 | 2 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

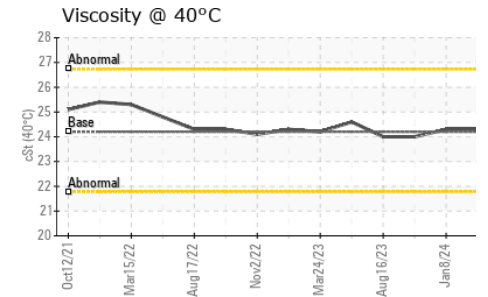
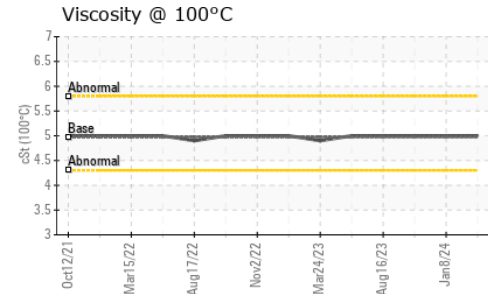
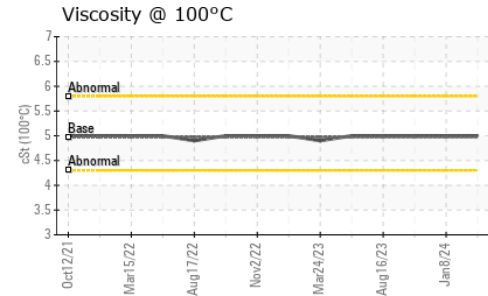
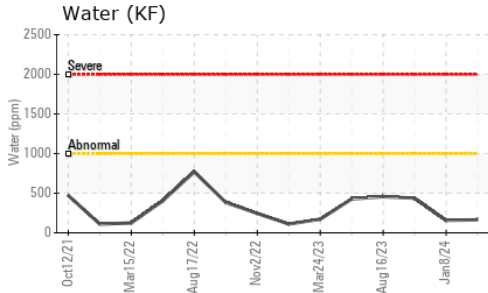
CONTAMINANTS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|-------|
| Silicon | ppm | ASTM D5185(m) | >8 | <1 | 0 | 2 |
| Sodium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | 0 |
| Water | % | ASTM D6304* | >0.1 | 0.016 | 0.015 | 0.043 |
| ppm Water | ppm | ASTM D6304* | >1000 | 164 | 157 | 437.1 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 | |
|------------------|----------|------------|---------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.43 | 0.31 | 0.31 | 0.27 |

OIL ANALYSIS REPORT

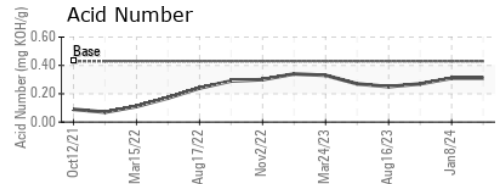
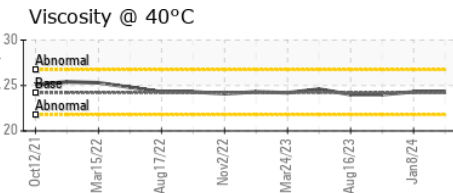
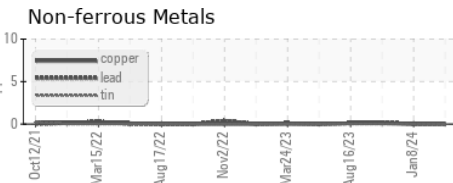
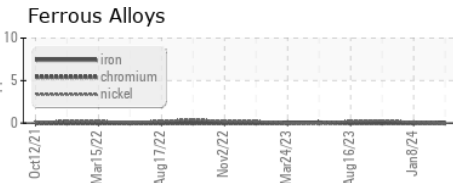


| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|----------------------|--------|---------------|---------|-------------|----------|------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 24.2 | 24.3 | 24.3 | 24.0 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 4.97 | 5.0 | 5 | 5 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 134 | 135 | 135 | 138 |

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

GRAPHS



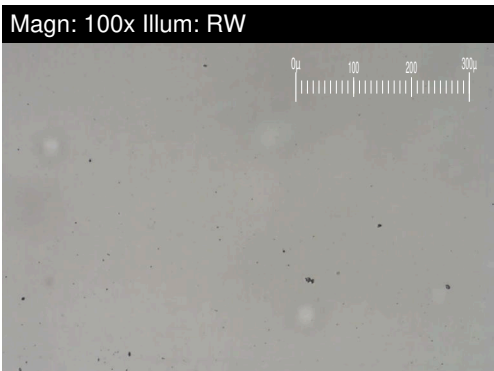
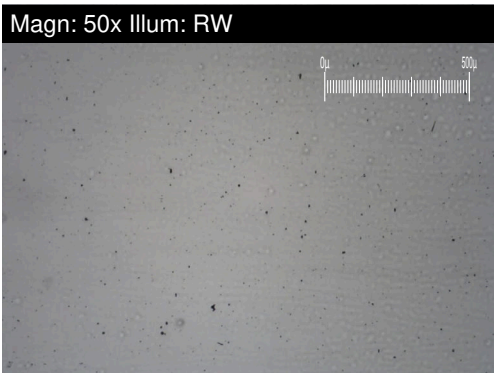
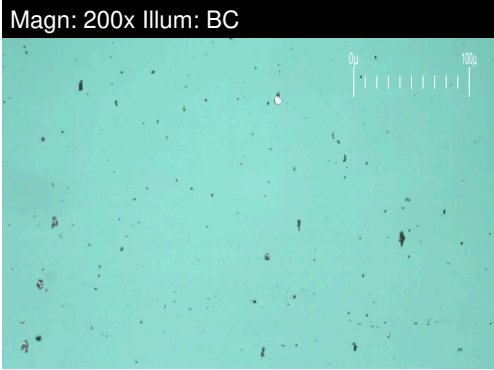
Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0911748 **Received** : 08 Apr 2024
Lab Number : **02627320** **Tested** : 16 Apr 2024
Unique Number : 5760452 **Diagnosed** : 16 Apr 2024 - Kevin Marson
Test Package : AVI 3

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.

FAST AIR LTD
 80 HANGAR LINE ROAD
 WINNIPEG, MB
 CA R3J 3Y7
 Contact: Denis Bourgouin
 denis.bourgouin@flyfastair.com
 T: (204)772-7622
 F: (204)783-2483

FERROGRAPHY REPORT

Area
(C-GQNJ)
 Machine Id
[C-GQNJ] BEECHCRAFT KING AIR 200 PCE-PJ1306
 Component
Left Jet Turbine
 Fluid
EASTMAN TURBO OIL 2380 (12 QTS)

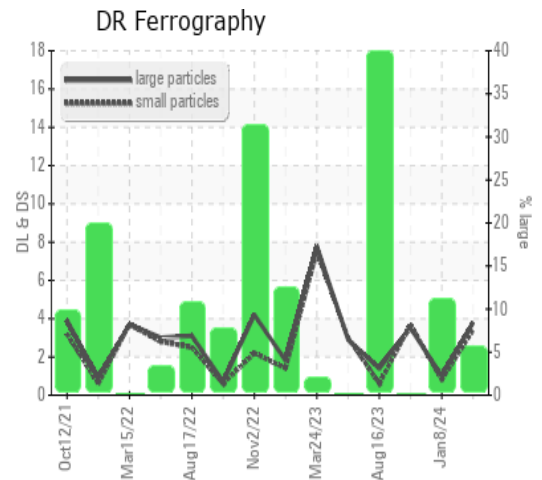


| DR-FERROGRAPHY | | method | limit/base | current | history1 | history2 |
|----------------------------|---|----------|------------|------------|----------|----------|
| Large Particles | | DR-Ferr* | | 3.8 | 1.0 | 3.5 |
| Small Particles | | DR-Ferr* | | 3.4 | 0.8 | 3.7 |
| Total Particles | | DR-Ferr* | >--- | 7.2 | 1.8 | 7.2 |
| Large Particles Percentage | % | DR-Ferr* | | 5.6 | 11.1 | 0 |
| Severity Index | | DR-Ferr* | | 2 | 0 | 1 |

| FERROGRAPHY | | method | limit/base | current | history1 | history2 |
|-----------------------|------------|-------------|------------|---------|----------|----------|
| Ferrous Rubbing | Scale 0-10 | ASTM D7684* | | 1 | 1 | 2 |
| 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* | | | | 1 |
| 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* | | | | |
| Carbonaceous Material | Scale 0-10 | ASTM D7684* | | | | |
| Lubricant Degradation | Scale 0-10 | ASTM D7684* | | | | |
| Sand/Dirt | Scale 0-10 | ASTM D7684* | | 1 | 1 | 2 |
| Fibres | Scale 0-10 | ASTM D7684* | | | | |
| Spheres | Scale 0-10 | ASTM D7684* | | | | |
| Other | Scale 0-10 | ASTM D7684* | | 1 | 1 | |

WEAR

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



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