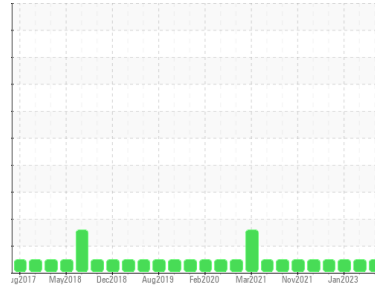




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(C-FVFN)**  
Machine Id  
**[C-FVFN] BEECHCRAFT KING AIR B200 PCE-93437**  
Component  
**Right 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	<b>WC0866221</b>	WC0827493	WC0756934
Sample Date	Client Info	<b>23 Oct 2023</b>	10 Aug 2023	05 Jan 2023
TSN	hrs Client Info	<b>13944</b>	13540	13394
TSO	hrs Client Info	<b>5496</b>	5269	4950
Oil Age	hrs Client Info	<b>219</b>	1816	1497
Oil Changed	Client Info	<b>N/A</b>	Not Changd	Not Changd
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >8	<b>0</b>	0	<1
Chromium	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >2	<b>0</b>	0	<1
Titanium	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm ASTM D5185(m) >2	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >2	<b>0</b>	0	<1
Lead	ppm ASTM D5185(m) >3	<b>0</b>	<1	0
Copper	ppm ASTM D5185(m) >3	<b>&lt;1</b>	0	0
Tin	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 0	<b>0</b>	<1	0
Calcium	ppm ASTM D5185(m) 0	<b>0</b>	<1	0
Phosphorus	ppm ASTM D5185(m) 2500	<b>2729</b>	2870	1726
Zinc	ppm ASTM D5185(m) 0	<b>&lt;1</b>	2	2
Sulfur	ppm ASTM D5185(m) 0	<b>48</b>	2	2
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

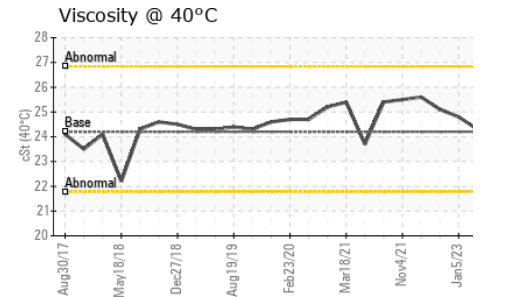
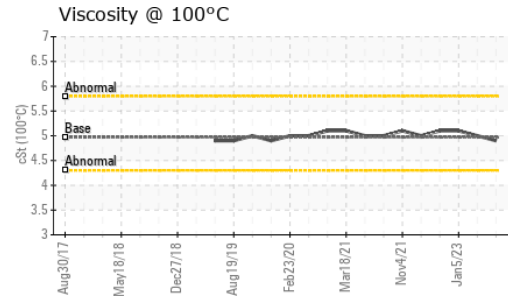
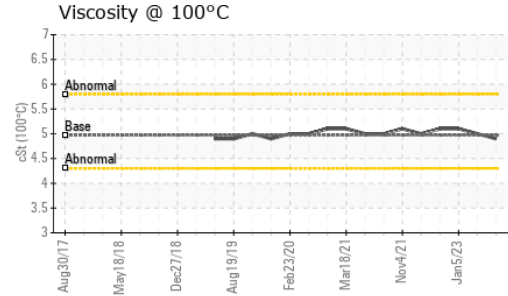
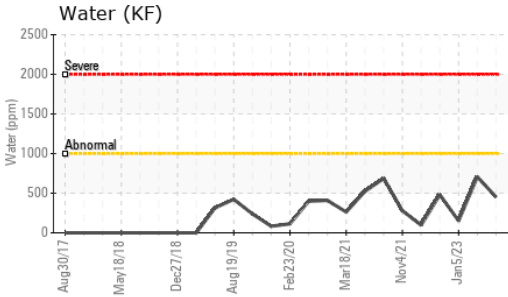
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >8	<b>2</b>	3	4
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	<1
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	0	<1
Water	% ASTM D6304* >0.1	<b>0.045</b>	0.070	0.015
ppm Water	ppm ASTM D6304* >1000	<b>450.9</b>	706.1	150.7

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.43	<b>0.29</b>	0.35	0.18



# OIL ANALYSIS REPORT

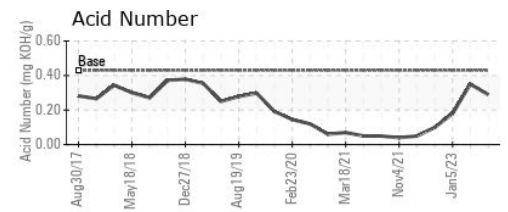
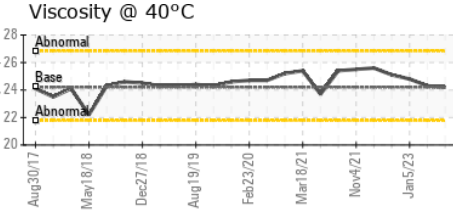
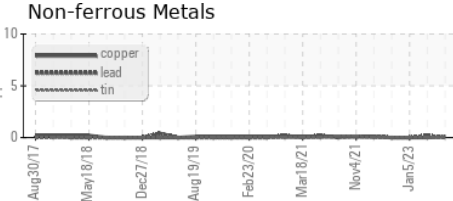
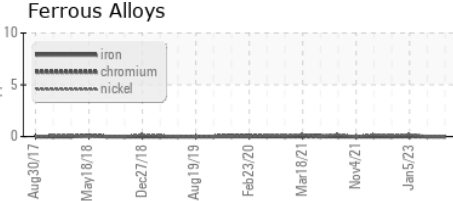


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	24.8
Visc @ 100°C	cSt	ASTM D7279(m)	4.97	5	5.1
Viscosity Index (VI)	Scale	ASTM D2270*	134	135	138

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0866221  
**Lab Number** : 02592662  
**Unique Number** : 5669741  
**Test Package** : AVI 3

**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

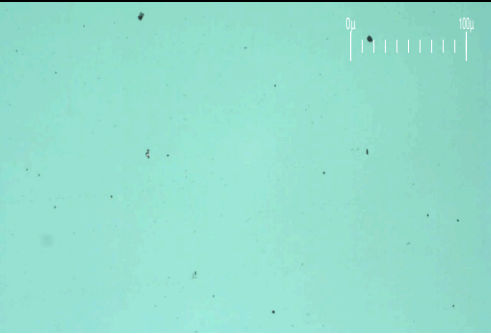
To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.



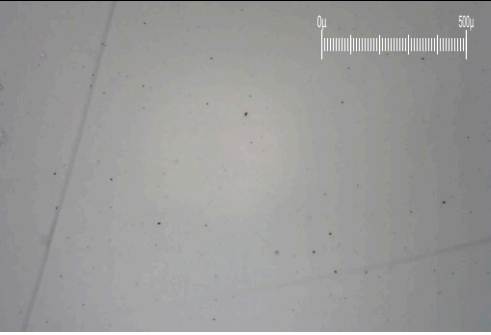
# FERROGRAPHY REPORT

Area  
**(C-FVFN)**  
 Machine Id  
**[C-FVFN] BEECHCRAFT KING AIR B200 PCE-93437**  
 Component  
**Right Jet Turbine**  
 Fluid  
**EASTMAN TURBO OIL 2380 (12 QTS)**

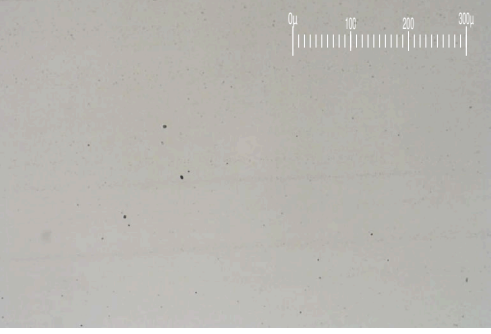
Magn: 200x Illum: BC



Magn: 50x Illum: RW



Magn: 100x Illum: RW

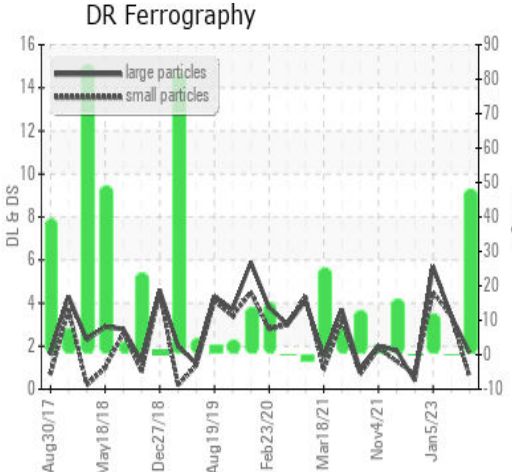


DR-FERROGRAPHY		method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		1.7	3.4	5.7
Small Particles		DR-Ferr*		0.6	3.4	4.5
Total Particles		DR-Ferr*	>---	2.3	6.8	10.2
Large Particles Percentage	%	DR-Ferr*		47.8	0	11.8
Severity Index		DR-Ferr*		2	0	7

FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1	1	1
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*				
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*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	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

### WEAR

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



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