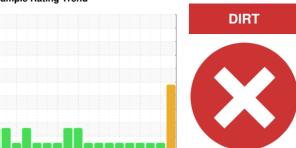


PROBLEM SUMMARY

Sample Rating Trend



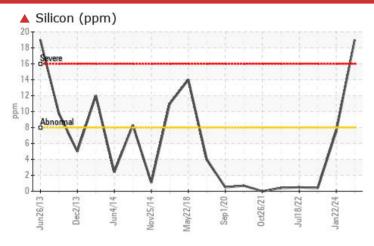
(C-FFAR)

[C-FFAR] BEECHCRAFT KING AIR B200 PCE-94171

Right Jet Turbine

EASTMAN TURBO OIL 2380 (12 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	NORMAL	NORMAL	
Silicon	ppm	ASTM D5185(m)	>8	1 9	8	<1	

Customer Id: FASWIN Sample No.: WC0932412 Lab Number: 02642317 Test Package: AVI 3



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED	D ACTIONS			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Seals			?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

22 Jan 2024 Diag: Bill Quesnel

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



NORMAL



07 Sep 2022 Diag: Kevin Marson

Resample at the next service interval to monitor. All component wear rates are normal. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



NORMAL



18 Jul 2022 Diag: Kevin Marson

Resample at the next service interval to monitor. All component wear rates are normal. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



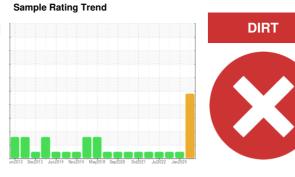


OIL ANALYSIS REPORT

(C-FFAR) [C-FFAR] BEECHCRAFT KING AIR B200 PCE-94171

Right Jet Turbine

EASTMAN TURBO OIL 2380 (12 QTS)



DIAGNOSIS

▲ Recommendation

Check seals and/or filters for points of contaminant entry. We recommend an early resample to monitor this condition.

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

Contaminants

Elemental level of silicon (Si) above normal indicating ingress of seal material, dirt and/or grease. The water content is negligible.

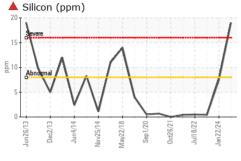
Oil Condition

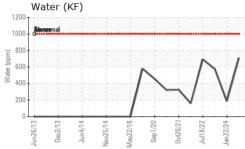
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

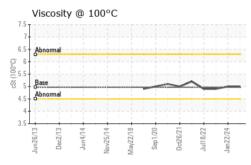
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0932412	WC0896747	WC0727694
Sample Date		Client Info		15 May 2024	22 Jan 2024	07 Sep 2022
TSN	hrs	Client Info		16471	16271	14908
TSO	hrs	Client Info		3640	3440	480
Oil Age	hrs	Client Info		1563	1363	480
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				SEVERE	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	<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	<1	0
Lead	ppm	ASTM D5185(m)	>3	0	0	<1
Copper	ppm	ASTM D5185(m)	>3	<1	<1	0
Tin	ppm	ASTM D5185(m)	>2	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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	<1	0	1
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	<1	0
Calcium						
	ppm	ASTM D5185(m)	0	0	0	0
Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)	0 2500	0 2694	0 2746	0 2585
Phosphorus Zinc		1 /	2500	-		
	ppm	ASTM D5185(m)	2500	2694	2746	2585
Zinc	ppm	ASTM D5185(m) ASTM D5185(m)	2500 0	2694 1	2746 1	2585 <1
Zinc Sulfur	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	2500 0	2694 1 2	2746 1 0	2585 <1
Zinc Sulfur Lithium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	2500 0 0	2694 1 2 <1	2746 1 0 <1	2585 <1 1 <1
Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	2500 0 0 limit/base	2694 1 2 <1 current	2746 1 0 <1 history1	2585 <1 1 <1 <1 history2
Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	2500 0 0 limit/base	2694 1 2 <1 current 19	2746 1 0 <1 history1	2585 <1 1 <1 history2 <1 <1 <1 <1
Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	2500 0 0 limit/base >8	2694 1 2 <1 current 19 <1	2746 1 0 <1 history1 8 0	2585 <1 1 <1 history2 <1 <1
Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	2500 0 0 limit/base >8 >20	2694 1 2 <1 current 19 <1 <1	2746 1 0 <1 history1 8 0 <1	2585 <1 1 <1 history2 <1 <1 <1 <1
Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	2500 0 0 limit/base >8 >20 >.1001	2694 1 2 <1 current 19 <1 <1 0.070	2746 1 0 <1 history1 8 0 <1 0.018	2585 <1 1 <1 history2 <1 <1 <1 0.057

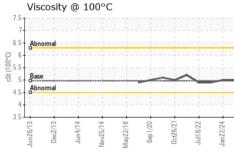


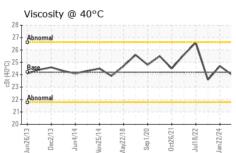
OIL ANALYSIS REPORT











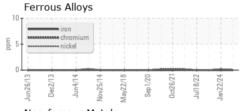
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.1001	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

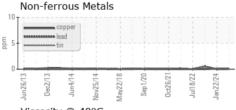
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	24.2	24.0	24.7	23.6
Visc @ 100°C	cSt	ASTM D7279(m)	4.97	5.0	5	4.9
Viscosity Index (VI)	Scale	ASTM D2270*	134	138	131	134

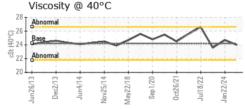
Color		PSE	
Bottom			

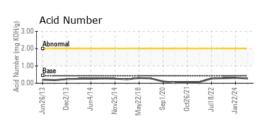
GRAPHS

SAMPLE IMAGES













Laboratory Sample No.

Lab Number : 02642317

: WC0932412 Unique Number : 5799856 Test Package : AVI 3

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 17 Jun 2024 **Tested**

Diagnosed

: 18 Jun 2024 : 18 Jun 2024 - Kevin Marson

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 R3J3Y7

Contact: Denis Bourgouin denis.bourgouin@flyfastair.com

T: (204)772-7622 F: (204)783-2483

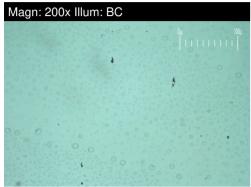


FERROGRAPHY REPORT

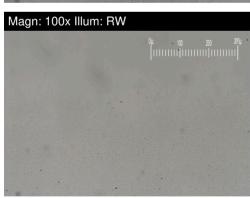
(C-FFAR) [C-FFAR] BEECHCRAFT KING AIR B200 PCE-94171

Right Jet Turbine

EASTMAN TURBO OIL 2380 (12 QTS)



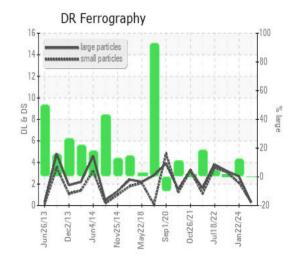




DR-FERROGRAP	HY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		0.3	2.7	3.2
Small Particles		DR-Ferr*		0.3	2.1	3.1
Total Particles		DR-Ferr*	>	0.6	4.8	6.3
Large Particles Percentage	%	DR-Ferr*		0	12.5	1.6
Severity Index		DR-Ferr*		0	2	0
FERROGRAPHY		method	limit/base	current	history1	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*		1		1
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*			1	
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	2	1
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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