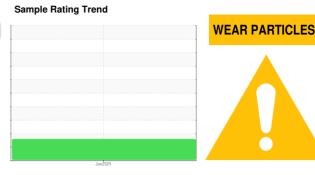


OIL ANALYSIS REPORT

(C-FHPB) [C-FHPB] BEECHCRAFT B300 KING AIR PCE-95426

Left Jet Turbine

EASTMAN TURBO OIL 2380 (12 QTS)



DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Wear particle analysis indicates that the ferrous cutting particles are abnormal. Cutting wear particles are caused by either hard protuberances (mis-aligned components, etc.), or abrasives entering the system and embedding themselves in softer materials (sand, etc.), and gouging out mating surfaces.

Contaminants

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

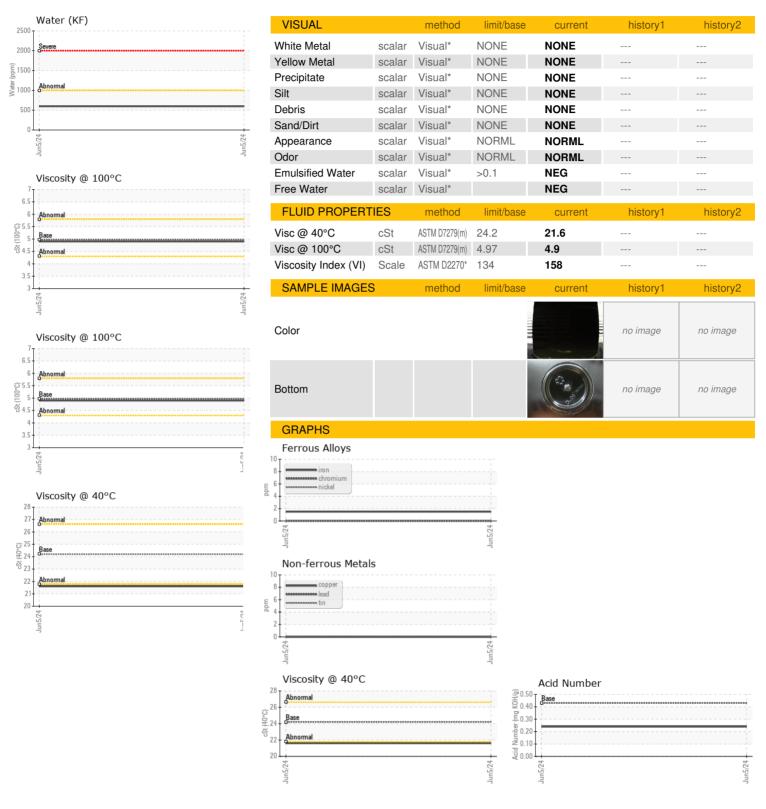
Oil Condition

Viscosity of sample indicates oil is within ISO 22 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0950222		
Sample Date		Client Info		05 Jun 2024		
TSN	hrs	Client Info		9395		
TSO	hrs	Client Info		2224		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	2		
Chromium	ppm	ASTM D5185(m)	>2	0		
Nickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>2	0		
Lead	ppm	ASTM D5185(m)	>3	0		
Copper	ppm	ASTM D5185(m)	>3	0		
Tin	ppm	ASTM D5185(m)	>2	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)	0	<1		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	0	2		
Calcium	ppm	ASTM D5185(m)	0	0		
Phosphorus	ppm	ASTM D5185(m)	2500	2637		
		. ,				
Zinc	mag	ASTM D5185(m)	0	<1		
-	ppm	ASTM D5185(m) ASTM D5185(m)		<1 2		
Zinc Sulfur Lithium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0			
Sulfur	ppm	ASTM D5185(m)		2		
Sulfur Lithium	ppm	ASTM D5185(m) ASTM D5185(m)	0	2 <1		
Sulfur Lithium CONTAMINANTS	ppm ppm	ASTM D5185(m) ASTM D5185(m) method	0 limit/base	2 <1 current	 history1	 history2
Sulfur Lithium CONTAMINANTS Silicon	ppm ppm	ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	0 limit/base	2 <1 current <1	history1	 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	0 limit/base >8	2 <1 current <1 0	history1	history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 limit/base >8 >20	2 <1 current <1 0 0	 history1 	history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm % ppm	ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304*	0 limit/base >8 >20 >0.1	2 <1 current <1 0 0 0.059	history1	history2



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number : 02641393 Unique Number : 5798932

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0950222

Test Package : AVI 3

Received : 12 Jun 2024 Tested : 17 Jun 2024

Diagnosed : 17 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-FHPB)

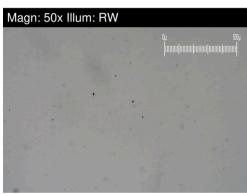
[C-FHPB] BEECHCRAFT B300 KING AIR PCE-95426

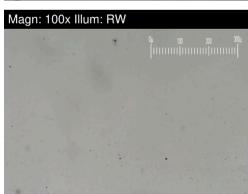
Left Jet Turbine

Fluid

EASTMAN TURBO OIL 2380 (12 QTS)



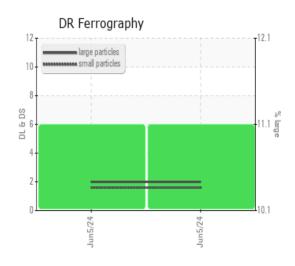




DR-FERROGRAP	HY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		2.0		
Small Particles		DR-Ferr*		1.6		
Total Particles		DR-Ferr*	>	3.6		
Large Particles Percentage	%	DR-Ferr*		11.1		
Severity Index		DR-Ferr*		1		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*		_ 1		
Ferrous Rolling	Scale 0-10	ASTM D7684*		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*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*				
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1		

WEAR

Wear particle analysis indicates that the ferrous cutting particles are abnormal. Cutting wear particles are caused by either hard protuberances (mis-aligned components, etc.), or abrasives entering the system and embedding themselves in softer materials (sand, etc.), and gouging out mating surfaces.



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