

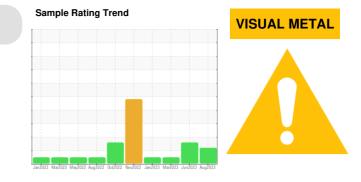
PROBLEM SUMMARY

(C-GQNJ) Machine Id [C-GQNJ] BEECHVRAFT KING AIR 200 PCEPJ1037

Component **Right Jet Turbine** Fluid

EASTMAN TURBO OIL 2380 (12 QTS)

COMPONENT CONDITION SUMMARY



No relevant graphs to display

RECOMMENDATION	PROBLEMATIC TEST RESULTS							
We advise that you check for visible metal particles	Sample Status				ABNORMAL	ABNORMAL	NORMAL	
in the oil. We recommend an early resample to	White Metal	scalar	Visual*	NONE	🔺 VLITE	NONE	NONE	
monitor this condition.	PrtFilter					no image	no image	

Customer Id: FASWIN Sample No.: WC0844514 Lab Number: 02577460 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 <u>gloria.gonzalez@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample			?	We recommend an early resample to monitor this condition.			
Check For Visual Metal			?	We advise that you check for visible metal particles in the oil.			

HISTORICAL DIAGNOSIS



13 Jun 2023 Diag: Kevin Marson

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 direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system. Elemental level of silicon (Si) above normal indicating ingress of seal material. The water content is negligible. The AN level is acceptable for this fluid.



24 Mar 2023 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.

13 Jan 2023 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.



view report

view report





OIL ANALYSIS REPORT

(C-GQNJ) Machine Id [C-GQNJ] BEECHVRAFT KING AIR 200 PCEPJ1037

Component -Right Jet Turbine

EASTMAN TURBO OIL 2380 (12 QTS)

DIAGNOSIS

A Recommendation

We advise that you check for visible metal particles in the oil. We recommend an early resample to monitor this condition.

📥 Wear

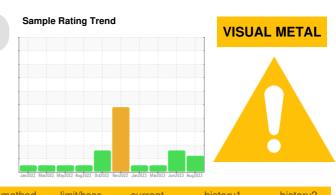
Light concentration of visible metal present. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system.

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.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0844514	WC0827500	WC0796148
Sample Date		Client Info		16 Aug 2023	13 Jun 2023	24 Mar 2023
TSN	hrs	Client Info		4902	4730	4527
TSO	hrs	Client Info		4902	4730	4527
Oil Age	hrs	Client Info		1954	1781	1578
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	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	0	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	0
Copper	ppm	ASTM D5185(m)	>3	<1	0	0
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	<1	<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	<1	0	0
Phosphorus	ppm	ASTM D5185(m)	2500	2670	2746	2598
Zinc	ppm	ASTM D5185(m)	0	2	1	<1
Sulfur	ppm	ASTM D5185(m)	0	2	2	2
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	1	9	3
Sodium	ppm	ASTM D5185(m)		0	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Water	%	ASTM D6304*	>0.1	0.054	0.042	0.017
ppm Water	ppm	ASTM D6304*	>1000	544.2	426.4	175.1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.43	0.28	0.28	0.33

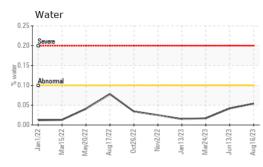


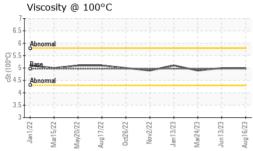
OIL ANALYSIS REPORT

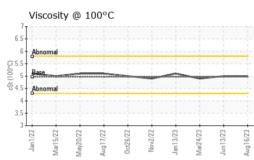
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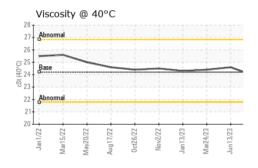
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PrtFilter



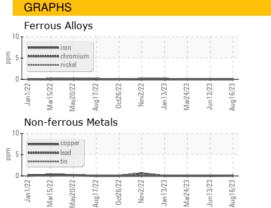


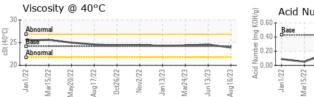


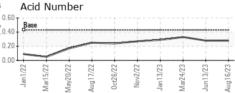


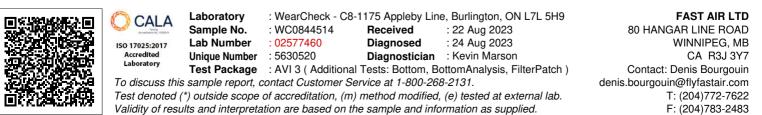
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	🔺 VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	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	23.9	24.6	24.4
Visc @ 100°C	cSt	ASTM D7279(m)	4.97	5	5	4.9
Viscosity Index (VI)	Scale	ASTM D2270*	134	140	132	126
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
					No. of the local division of the local divis	14145









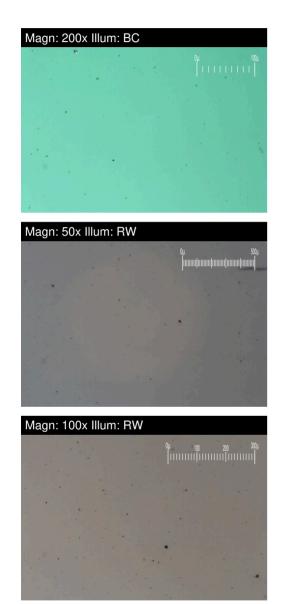


FERROGRAPHY REPORT

Area (C-GQNJ) Machine Id [C-GQNJ] BEECHVRAFT KING AIR 200 PCEPJ1037

Right Jet Turbine

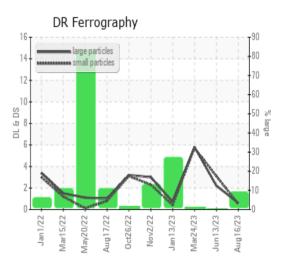
EASTMAN TURBO OIL 2380 (12 QTS)



DR-FERROGRAP	HY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		0.6	2.2	5.8
Small Particles		DR-Ferr*		0.5	3.1	5.7
Total Particles		DR-Ferr*	>	1.1	5.3	11.5
Large Particles Percentage	%	DR-Ferr*		9.1	0	0.9
Severity Index		DR-Ferr*		0	2	1
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	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*		1		1
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1	1	1

WEAR

Light concentration of visible metal present. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system.



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