

## **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Machine Id

# [C-FZHV] C-170 C-FZHV

Piston Aircraft Engine

Fluid SHELL AEROSHELL W 15W50 MGR (--- LTR)

#### DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

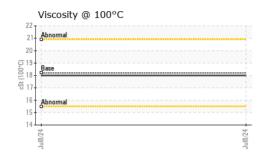
### Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0825444		
Sample Date		Client Info		08 Jul 2024		
TSN	hrs	Client Info		0		
TSO	hrs	Client Info		35		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	35		
Chromium	ppm	ASTM D5185(m)	>20	10		
Nickel	ppm	ASTM D5185(m)	>15	2		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	<1		
Aluminum	ppm	ASTM D5185(m)	>25	12		
Lead	ppm	ASTM D5185(m)	>20000	2810		
Copper	ppm	ASTM D5185(m)	>25	13		
Tin	ppm	ASTM D5185(m)	>30	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		3		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	10	33		
Calcium	ppm	ASTM D5185(m)	10	9		
Phosphorus	ppm	ASTM D5185(m)	1280	1200		
Zinc	ppm	ASTM D5185(m)	10	13		
Sulfur	ppm	ASTM D5185(m)	1800	1390		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	5		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	<1		



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VISUAL		method	limit/base	current	history1	histor
White Metal	scalar	Visual*	NONE	VLITE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.1	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPER	TIES	method	limit/base	current	history1	histo
/isc @ 100°C	cSt	ASTM D7279(m)	18.2	18.0		
GRAPHS						
Ferrous Alloys						
iron						
- chromium						
nickel						
-						
-			18/24			
			Jul8/24			
Juliaza			Jul8/24			
470800 Gopper/Aluminum	n/Tin		Ju8/24			
470800 Gopper/Aluminum	n/Tin		Jul8/24			
Copper/Aluminum	n/Tin		Jul824			
Copper/Aluminum	n/Tin		Juß/24			
Copper/Aluminum	n/Tin		Jul8/24			
Copper/Aluminum	n/Tin		Jul9/24			
Copper/Aluminum Abroma	n/Tin		Jul824			
Copper/Aluminum Abroma	n/Tin		Jul8/24			
Copper/Aluminum	n/Tin		Jul8/24			
Copper/Aluminum	n/Tin		Jul8/24			
Copper/Aluminum						
Copper/Aluminum						
Copper/Aluminum						
Copper/Aluminum						
Copper/Aluminum						
Copper/Aluminum Abroma copper aluminum tin Viscosity @ 100°C						
Copper/Aluminum aluminum tin Viscosity @ 100°C						
Copper/Aluminum Copper aluminum tin Viscosity @ 100°C						
Copper/Aluminum						
Copper/Aluminum Copper aluminum tin tin tin Viscosity @ 100°C						
Copper/Aluminum Copper aluminum tin tin tin Viscosity @ 100°C						
Copper/Aluminum						
Copper/Aluminum Copper aluminum tin Viscosity @ 100°C						
Copper/Aluminum Copper Abnomal Copper in Viscosity @ 100°C						
Copper/Aluminum Copper aluminum bloomal bloomal bloomal bloomal bloomal bloomal						

Jul8/24

W.G.COX AVIATION SUPPLIES Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0825444 Received : 17 Jul 2024 501 AVIATOR LANE, MUNICIPAL AIRPORT Lab Number : 02648420 Tested : 17 Jul 2024 OSHAWA, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5813972 Diagnosed : 18 Jul 2024 - Kevin Marson CA L1J 0B8 Test Package : AVI 1 Contact: Debbie To discuss this sample report, contact Customer Service at 1-800-268-2131. info@aviationsupplies.ca T: (905)728-4741 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. F: (905)723-7698

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Contact/Location: Debbie ? - WGCOSH

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