

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.

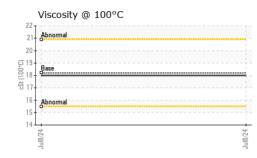
Fluid Condition

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

SAMPLE INFORM	IATION	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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