

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

[CGKRF] CESSNA C-172 CGKRF

Front Piston Aircraft Engine

SHELL AEROSHELL W 15W50 MGR (8 LTI

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

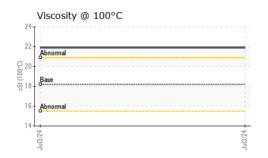
Fluid Condition

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in

				Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0825453		
Sample Date		Client Info		03 Jul 2024		
ΓSN	hrs	Client Info		0		
rso .	hrs	Client Info		2068		
Oil Age	hrs	Client Info		59		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
- uel		WC Method	>4.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>90	18		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>15	1		
Γitanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)	>25	6		
_ead	ppm	ASTM D5185(m)	>20000	4681		
Copper	ppm	ASTM D5185(m)	>25	11		
Γin	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)		<1		
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	<1		
Calcium	ppm	ASTM D5185(m)		2		
Phosphorus	ppm	ASTM D5185(m)	1280	1134		
Zinc	ppm	ASTM D5185(m)	10	4		
Sulfur	ppm	ASTM D5185(m)	1800	3957		
_ithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	5		
		ASTM D5185(m)	-	<1		
Sodium	ppm	ASTIVI DOTOSITILI		<		



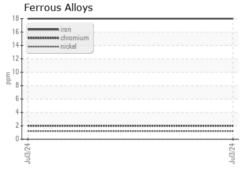
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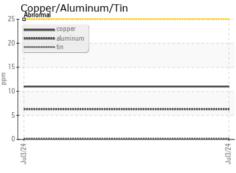


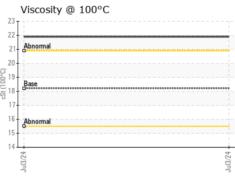
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.1	NEG		
Free Water	scalar	Visual*		NEG		
		اء مالم مما	lineit/lenen		la i a t a un ed	history.O

FLUID PROPER	THES	method			flistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	21.9		

GRAPHS









CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Unique Number : 5812540 Test Package : AVI 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0825453 Lab Number : 02646988

Validity of results and interpretation are based on the sample and information as supplied.

Received : 10 Jul 2024 Tested : 10 Jul 2024

Diagnosed

: 10 Jul 2024 - Kevin Marson

Contact: John Bayes bayesjohn@torontoairways.com T: (905)404-9252

CANADIAN FLIGHT ACADEMY

1250 AIRPORT BOULEVARD

F: (905)404-8294

OSHAWA, ON

CA L1J 8P5

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.

Contact/Location: John Bayes - CAN120OSH