

OIL ANALYSIS REPORT

[C-FROP] CESSNA 172R L-31065-51A

(C-FROP)

Piston Aircraft Engine

SHELL AEROSHELL W 80 (--- GAL)

Sample Rating Trend



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

				Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0882501		
Sample Date		Client Info		15 Dec 2023		
TSN	hrs	Client Info		0		
TSO	hrs	Client Info		1003		
Oil Age	hrs	Client Info		57		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	V	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
ron	ppm	ASTM D5185(m)	>90	45		
Chromium	ppm	ASTM D5185(m)	>20	9		
Nickel	ppm	ASTM D5185(m)	>15	2		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)	>25	9		
Lead	ppm	ASTM D5185(m)	>20000	5274		
Copper	ppm	ASTM D5185(m)	>25	19		
Tin	ppm	ASTM D5185(m)	>30	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)		<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		1		
Calcium	ppm	ASTM D5185(m)		3		
Phosphorus	ppm	ASTM D5185(m)		1165		
Zinc	ppm	ASTM D5185(m)		8		
Sulfur	ppm	ASTM D5185(m)	3000	2431		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	9		
Sodium	ppm	ASTM D5185(m)		<1		

Potassium

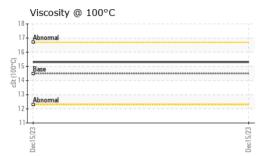
ppm

ASTM D5185(m) >20

17



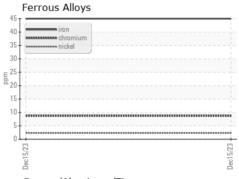
OIL ANALYSIS REPORT



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	NONE		
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		
ELLIIN DRODERT	TIES	mothod	limit/basa	current	history1	history?

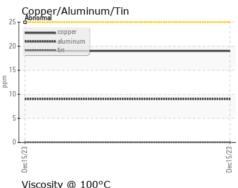
15.3

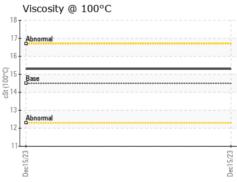
Visc @ 100°C
GRAPHS



cSt

ASTM D7279(m) 14.5







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5706964

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0882501 : 02605878

Recieved Diagnosed

: 02 Jan 2024 : 02 Jan 2024 Diagnostician : Kevin Marson

Test Package : AVI 1 (Additional Tests: FT-IR)

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.

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