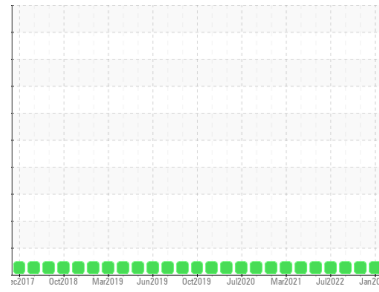




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

(C-GMME)

Machine Id

[C-GMME] CESSNA 172M L-30769-27A

Component

Piston Aircraft Engine

Fluid

SHELL AEROSHELL W 15W50 MGR (8 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0892292	WC0760301	WC0734166
Sample Date	Client Info		24 Jan 2024	17 Nov 2022	09 Sep 2022
TSN	hrs	Client Info	0	0	0
TSO	hrs	Client Info	342	4497	4397
Oil Age	hrs	Client Info	50	50	50
Oil Changed		Client Info	Changed	N/A	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0
Water	WC Method	>0.1	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	31	20	24
Chromium	ppm	ASTM D5185(m)	>20	6	2	4
Nickel	ppm	ASTM D5185(m)	>15	2	2	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	7	4	7
Lead	ppm	ASTM D5185(m)	>20000	4130	3754	3129
Copper	ppm	ASTM D5185(m)	>25	17	17	18
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		<1	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	5	0	<1	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	10	2	0	<1
Calcium	ppm	ASTM D5185(m)	10	3	<1	<1
Phosphorus	ppm	ASTM D5185(m)	1280	1150	1194	1217
Zinc	ppm	ASTM D5185(m)	10	6	3	4
Sulfur	ppm	ASTM D5185(m)	1800	1356	1044	1088
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

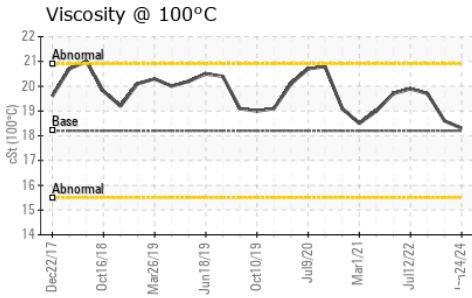
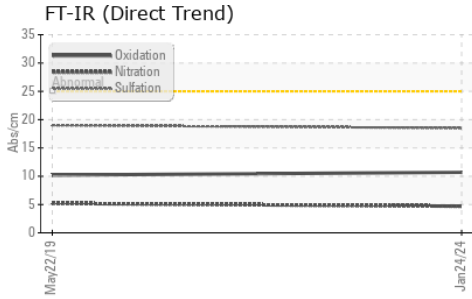
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	5	3	4
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	4.7	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	18.5	---	---



OIL ANALYSIS REPORT

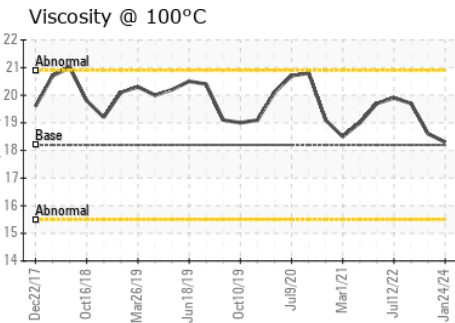
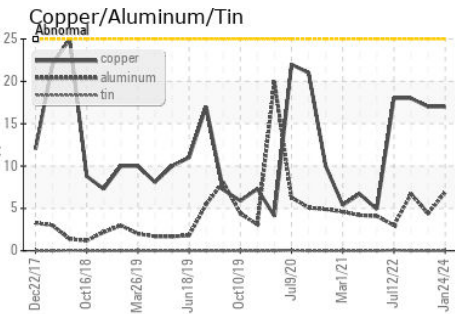
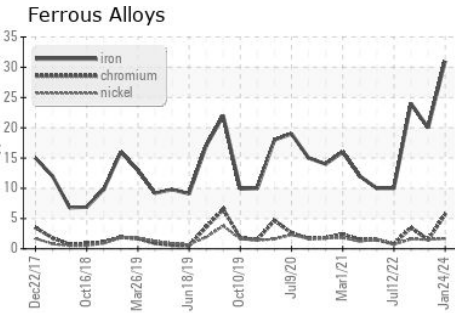


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	10.7	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	VLITE
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	.2%	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	18.3	18.6	19.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0892292 **Received** : 21 Jun 2024
Lab Number : **02643387** **Tested** : 21 Jun 2024
Unique Number : 5800926 **Diagnosed** : 21 Jun 2024 - Kevin Marson
Test Package : AVI 1 (Additional Tests: FT-IR)

ROCKCLIFFE FLYING CLUB
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 OTTAWA, ON
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 T: (613)746-4425
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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.