

OIL ANALYSIS REPORT

Area (C-GKSK) [C-GKSK] CESSNA C-172S L-30810-51E

Piston Aircraft Engine

Fluid SHELL AEROSHELL W 15W50 MGR (7 QTS)

DIAGNOSIS

Recommendation

We advise that you monitor for an abnormal oil pressure drop and noise. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

📥 Wear

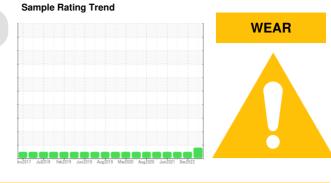
Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.



SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0892285	WC0760308	WC0734162
Sample Date		Client Info		01 Apr 2024	28 Dec 2022	06 Sep 2022
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		159	4163	4077
Oil Age	hrs	Client Info		60	46	60
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	25	24	30
Chromium	ppm	ASTM D5185(m)	>20	4	2	3
Nickel	ppm	ASTM D5185(m)	>15	2	3	3
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	8	9	11
Lead	ppm	ASTM D5185(m)	>20000	4989	5068	6166
Copper	ppm	ASTM D5185(m)	>25	<u> </u>	14	9
Tin	ppm	ASTM D5185(m)	>30	<1	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<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	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	10	2	<1	<1
Calcium	ppm	ASTM D5185(m)	10	3	<1	2
Phosphorus	ppm	ASTM D5185(m)	1280	1170	1245	1217
Zinc	ppm	ASTM D5185(m)	10	8	6	6
Sulfur	ppm	ASTM D5185(m)	1800	1478	1126	1231
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	9	4	3
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water	%	ASTM D6304*	>0.1	0.021		
ppm Water			>1000	217		



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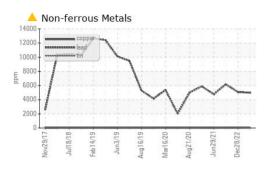
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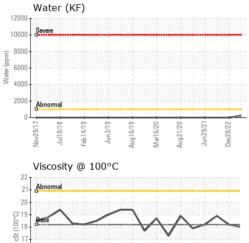
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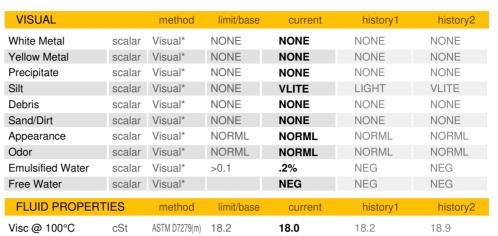


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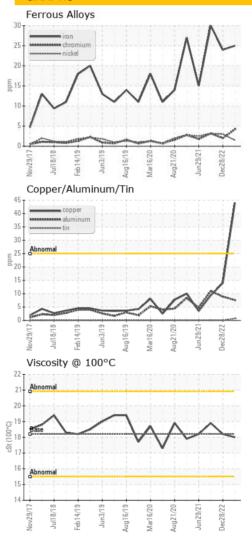
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ROCKCLIFFE FLYING CLUB** CALA Sample No. : WC0892285 Received : 10 Jul 2024 1495 SIR GEORGE-ETIENNE, CARTIER PARKWAY MAINTENANCE Lab Number : 02646980 Tested : 15 Jul 2024 OTTAWA, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5812532 Diagnosed : 15 Jul 2024 - Kevin Marson CA K1K 4Y5 Test Package : AVI 1 (Additional Tests: KF) Contact: Patrick Giunta To discuss this sample report, contact Customer Service at 1-800-268-2131. maintenance@rfc.ca Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (613)746-4425 Validity of results and interpretation are based on the sample and information as supplied. F: x:

Report Id: ROC149OTT [WCAMIS] 02646980 (Generated: 07/15/2024 09:05:07) Rev: 1

Contact/Location: Patrick Giunta - ROC149OTT Page 2 of 2