



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(C-GLTI) CENTRAL AIRWAYS LTD

Machine Id
CESSNA 608601

Component
Left Piston Aircraft Engine

Fluid
SHELL AEROSHELL W 15W50 MGR (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0811219	WC0712108	---
Sample Date		Client Info		25 Mar 2024	10 Mar 2023	---
TSN	hrs	Client Info		0	0	---
TSO	hrs	Client Info		463	464	---
Oil Age	hrs	Client Info		20	23	---
Filter Age	hrs	Client Info		20	23	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	31	37	---
Chromium	ppm	ASTM D5185(m)	>20	2	3	---
Nickel	ppm	ASTM D5185(m)	>15	10	▲ 20	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>5	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	10	17	---
Lead	ppm	ASTM D5185(m)	>20000	3187	3076	---
Copper	ppm	ASTM D5185(m)	>25	11	13	---
Tin	ppm	ASTM D5185(m)	>30	0	1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

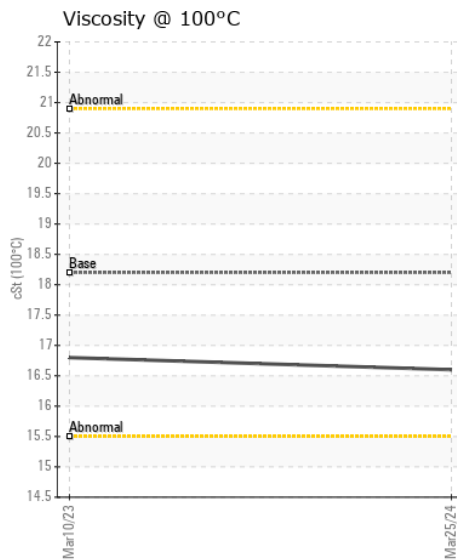
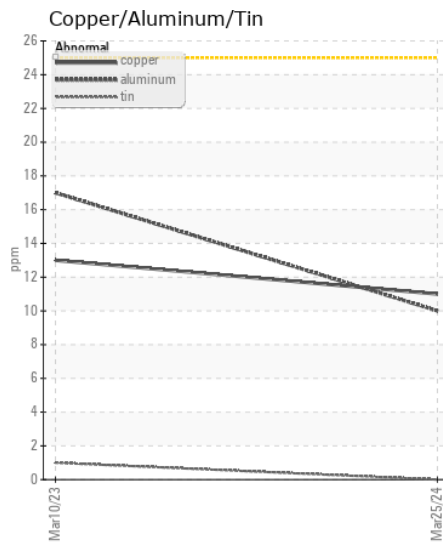
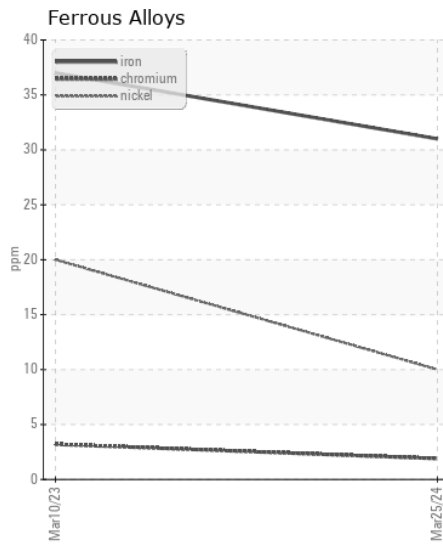
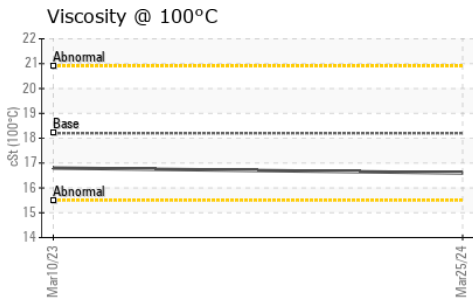
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	11	▲ 20	---
Potassium	ppm	ASTM D5185(m)	>20	<1	1	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	4.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	---	---
Silt	scalar	Visual*	NONE	VLITE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		1	2	---
Boron	ppm	ASTM D5185(m)		0	<1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)	5	<1	2	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	10	<1	1	---
Calcium	ppm	ASTM D5185(m)	10	<1	0	---
Phosphorus	ppm	ASTM D5185(m)	1280	1132	1191	---
Zinc	ppm	ASTM D5185(m)	10	10	12	---
Sulfur	ppm	ASTM D5185(m)	1800	1073	1255	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	11.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	16.6	16.8	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0811219 **Received** : 28 Mar 2024
Lab Number : 02625195 **Tested** : 28 Mar 2024
Unique Number : 5750314 **Diagnosed** : 28 Mar 2024 - Kevin Marson
Test Package : AVI 1 (Additional Tests: FT-IR)

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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.