



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
[C-FNCT] CESSNA C-172 C-FNCT
 Component
Piston Aircraft Engine
 Fluid
SHELL AEROSHELL W 15W50 MGR (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0854751	---	---
Sample Date		Client Info		14 Jun 2024	---	---
TSN	hrs	Client Info		0	---	---
TSO	hrs	Client Info		450	---	---
Oil Age	hrs	Client Info		48	---	---
Filter Age	hrs	Client Info		48	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	37	---	---
Chromium	ppm	ASTM D5185(m)	>20	11	---	---
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	11	---	---
Lead	ppm	ASTM D5185(m)	>20000	6386	---	---
Copper	ppm	ASTM D5185(m)	>25	8	---	---
Tin	ppm	ASTM D5185(m)	>30	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

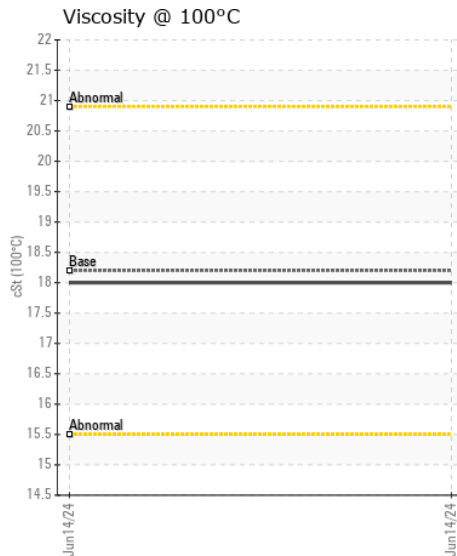
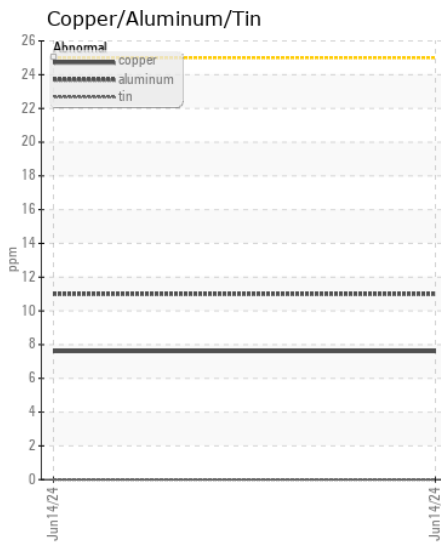
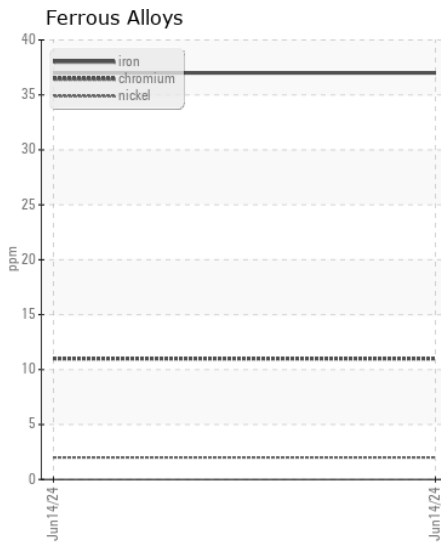
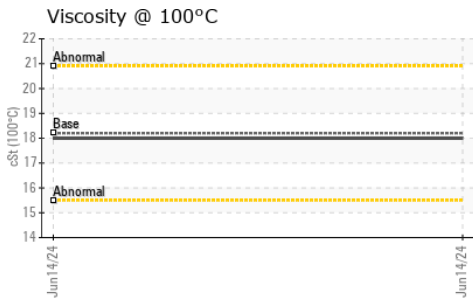
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	0	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
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	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	---	---
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)	10	3	---	---
Phosphorus	ppm	ASTM D5185(m)	1280	1054	---	---
Zinc	ppm	ASTM D5185(m)	10	7	---	---
Sulfur	ppm	ASTM D5185(m)	1800	1592	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	137	135	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	18.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	148	148	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0854751
Lab Number : **02643186**
Unique Number : 5800725
Test Package : AVI 1 (Additional Tests: KV40, VI)

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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.