



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(C-GIST)
Machine Id
[C-GIST] CESSNA 172 L-28663-51A
Component
Front 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		WC0858924	WC0858913	WC0825467
Sample Date		Client Info		09 Feb 2024	21 Nov 2023	12 Oct 2023
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		3850	3801	3737
Oil Age	hrs	Client Info		49	64	34
Filter Age	hrs	Client Info		49	64	34
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	9	12	10
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	3	3	3
Lead	ppm	ASTM D5185(m)	>20000	3296	4247	3133
Copper	ppm	ASTM D5185(m)	>25	5	7	6
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

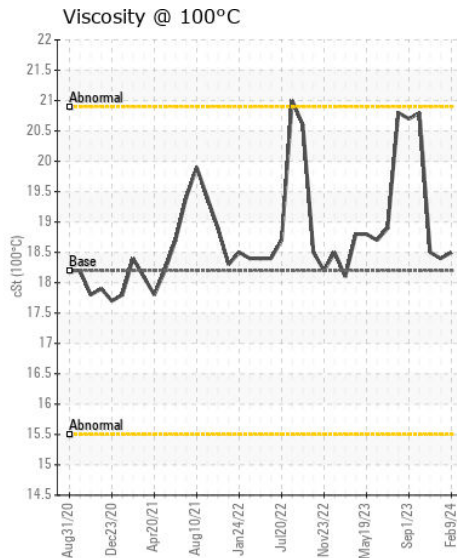
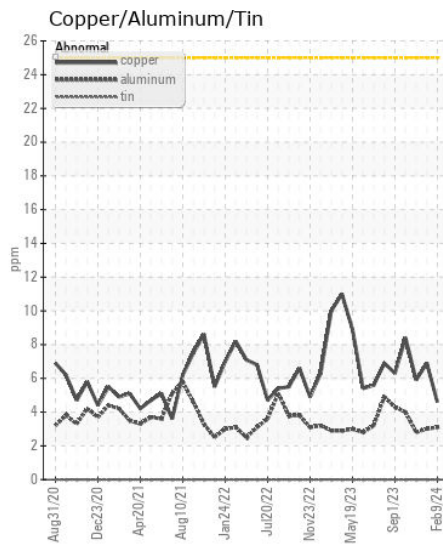
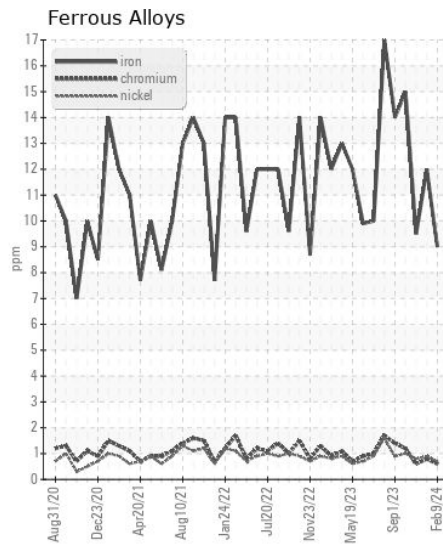
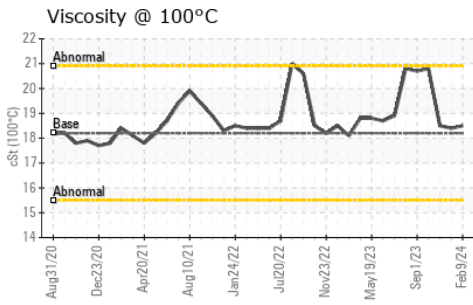
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	5	6	6
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
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
Silt	scalar	Visual*	NONE	LIGHT	VLITE	NONE
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	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)		0	<1	<1
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	10	<1	0	0
Calcium	ppm	ASTM D5185(m)	10	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	1280	1169	1218	1175
Zinc	ppm	ASTM D5185(m)	10	3	4	4
Sulfur	ppm	ASTM D5185(m)	1800	1526	1395	1364
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	18.5	18.4	18.5



ISO 17025:2017
Accredited
Laboratory

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

Sample No. : WC0858924

Lab Number : 02617013

Unique Number : 5734123

Test Package : AVI 1

Received : 21 Feb 2024

Tested : 22 Feb 2024

Diagnosed : 22 Feb 2024 - Kevin Marson

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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.