



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(C-GISE) [13121]
Machine Id
[C-GISE] CESSNA 182T L-2941648A
Component
Piston Aircraft Engine
Fluid
PHILLIPS 66 AVIATION TYPE M SAE 20W50 (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0834811	WC0834800	WC0396636
Sample Date		Client Info		05 Jan 2024	19 Sep 2023	10 Jan 2020
TSN	hrs	Client Info		1891	1888	0
TSO	hrs	Client Info		1891	1888	1663
Oil Age	hrs	Client Info		3	60	50
Filter Age	hrs	Client Info		3	60	50
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	10	27	7
Chromium	ppm	ASTM D5185(m)	>20	<1	2	<1
Nickel	ppm	ASTM D5185(m)	>15	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	4	1
Lead	ppm	ASTM D5185(m)	>20000	1666	6176	4890
Copper	ppm	ASTM D5185(m)	>25	<1	2	1
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

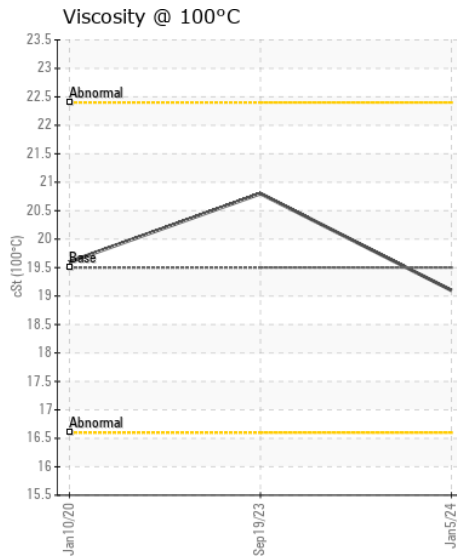
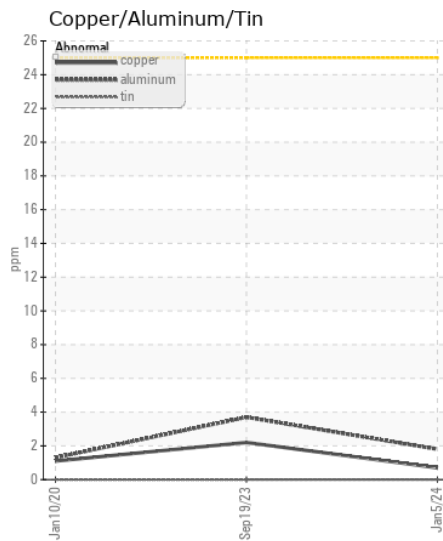
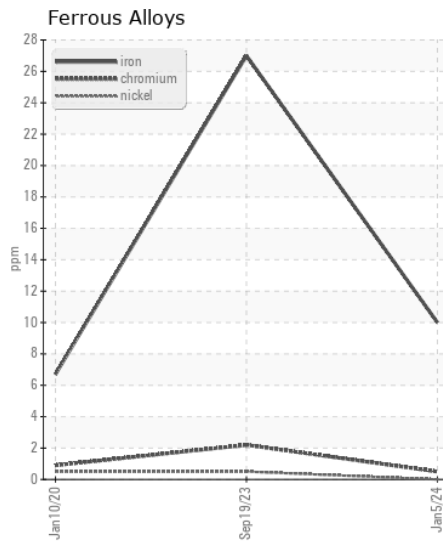
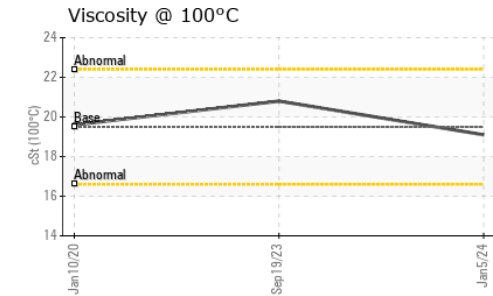
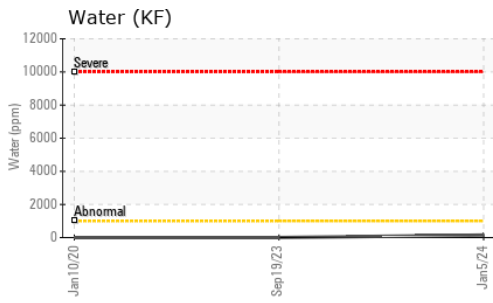
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	3	4	5
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water	%	ASTM D6304*	>0.1	0.015	---	---
ppm Water	ppm	ASTM D6304*	>1000	151	---	---
Glycol		WC Method		NEG	NEG	NEG
Silt	scalar	Visual*	NONE	LIGHT	LIGHT	LIGHT
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	.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		0	0	0
Boron	ppm	ASTM D5185(m)		0	0	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	2	<1
Calcium	ppm	ASTM D5185(m)		<1	<1	2
Phosphorus	ppm	ASTM D5185(m)		2	5	11
Zinc	ppm	ASTM D5185(m)		2	5	4
Sulfur	ppm	ASTM D5185(m)		933	1038	1077
Visc @ 100°C	cSt	ASTM D7279(m)	19.5	19.1	20.8	19.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0834811 **Received** : 26 Apr 2024
Lab Number : 02631589 **Tested** : 29 Apr 2024
Unique Number : 5772742 **Diagnosed** : 29 Apr 2024 - Kevin Marson
Test Package : AVI 1 (Additional Tests: KF)

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.

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