



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(C-GISE) [13070]
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		WC0834800	WC0396636	---
Sample Date		Client Info		19 Sep 2023	10 Jan 2020	---
TSN	hrs	Client Info		1888	0	---
TSO	hrs	Client Info		1888	1663	---
Oil Age	hrs	Client Info		60	50	---
Filter Age	hrs	Client Info		60	50	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	27	7	---
Chromium	ppm	ASTM D5185(m)	>20	2	<1	---
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>5	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	4	1	---
Lead	ppm	ASTM D5185(m)	>20000	6176	4890	---
Copper	ppm	ASTM D5185(m)	>25	2	1	---
Tin	ppm	ASTM D5185(m)	>30	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

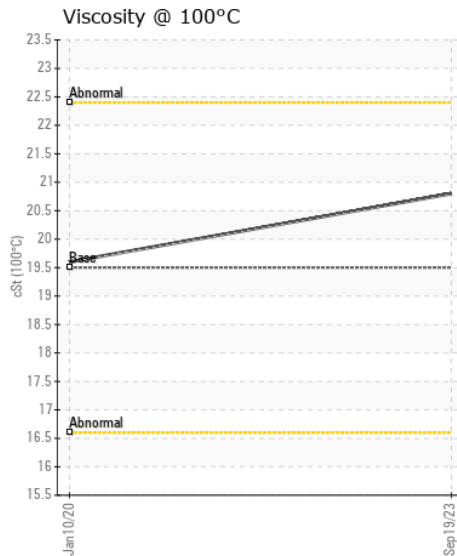
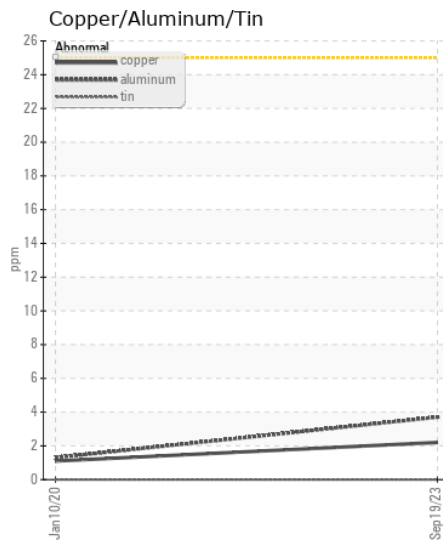
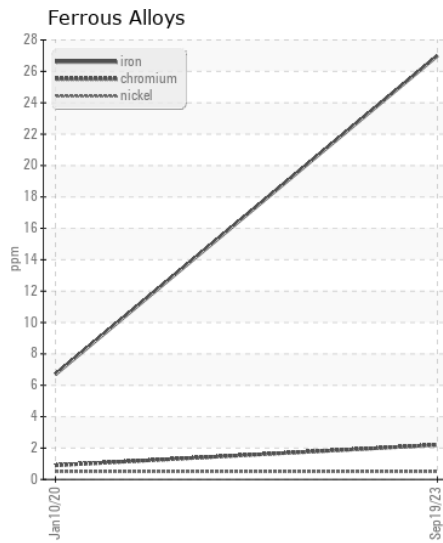
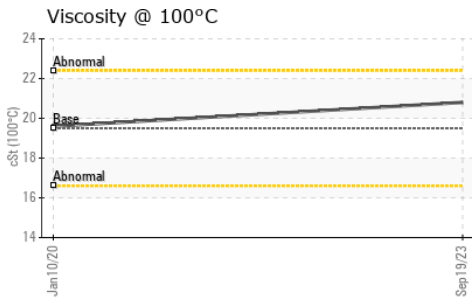
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	4	5	---
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	---
Silt	scalar	Visual*	NONE	LIGHT	LIGHT	---
Debris	scalar	Visual*	NONE	NONE	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)		0	0	---
Boron	ppm	ASTM D5185(m)		0	<1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		2	<1	---
Calcium	ppm	ASTM D5185(m)		<1	2	---
Phosphorus	ppm	ASTM D5185(m)		5	11	---
Zinc	ppm	ASTM D5185(m)		5	4	---
Sulfur	ppm	ASTM D5185(m)		1038	1077	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.5	20.8	19.6	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0834800 **Received** : 26 Apr 2024
Lab Number : 02631596 **Tested** : 26 Apr 2024
Unique Number : 5772749 **Diagnosed** : 26 Apr 2024 - Kevin Marson
Test Package : AVI 1

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.

AIR PARTNERS INC.
 1180 Keith Ross Drive, Door 3
 Oshawa, ON
 CA L1J 0C7
 Contact: Ron DeConciliys
 ron.airpartners@gmail.com
 T: (905)513-0354
 F: (905)513-8986