



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
(C-GSBF)
Machine Id
[C-GSBF] CIRRUS SR22 1045590
Component
Front Piston Aircraft Engine
Fluid
PHILLIPS 66 AVIATION TYPE M SAE 20W50 (8 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0841041	---	---
Sample Date		Client Info		28 Sep 2023	---	---
TSN	hrs	Client Info		22	---	---
TSO	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		22	---	---
Filter Age	hrs	Client Info		22	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	64	---	---
Chromium	ppm	ASTM D5185(m)	>20	15	---	---
Nickel	ppm	ASTM D5185(m)	>15	3	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>5	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>25	18	---	---
Lead	ppm	ASTM D5185(m)	>20000	2553	---	---
Copper	ppm	ASTM D5185(m)	>25	38	---	---
Tin	ppm	ASTM D5185(m)	>30	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

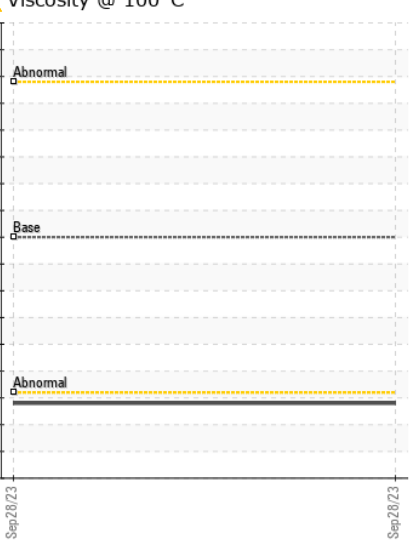
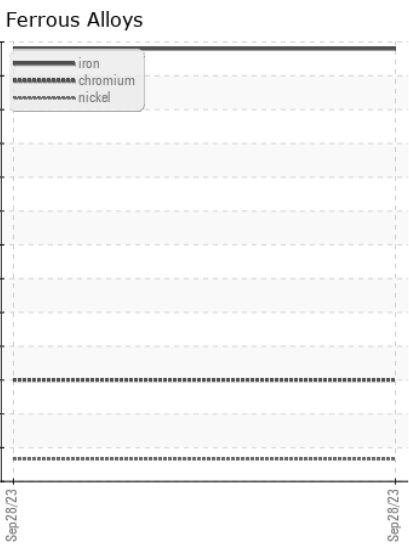
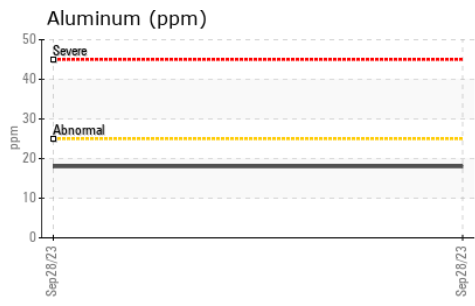
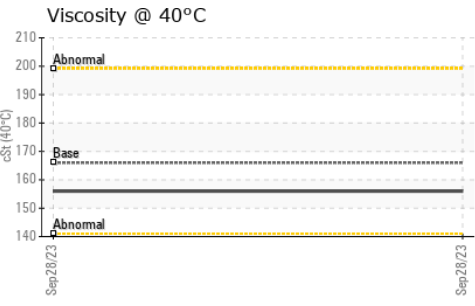
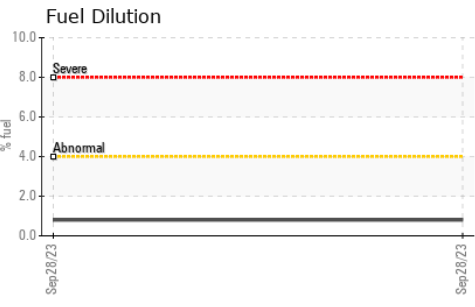
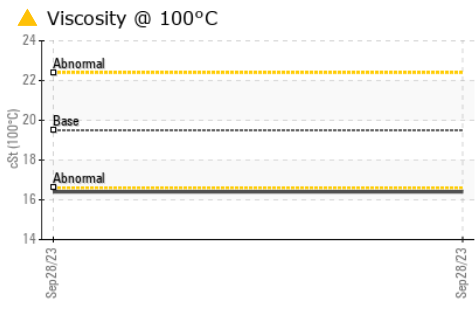
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	34	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel	%	ASTM D7593*	>4.0	0.8	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
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 oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)		<1	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		7	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		3	---	---
Calcium	ppm	ASTM D5185(m)		49	---	---
Phosphorus	ppm	ASTM D5185(m)		37	---	---
Zinc	ppm	ASTM D5185(m)		64	---	---
Sulfur	ppm	ASTM D5185(m)		1054	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	166	156	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.5	▲ 16.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	135	▲ 110	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0841041 **Received** : 06 Oct 2023
Lab Number : **02587568** **Tested** : 10 Oct 2023
Unique Number : 5656634 **Diagnosed** : 10 Oct 2023 - Kevin Marson
Test Package : AVI 1 (Additional Tests: FuelDilution, KV40, PercentFuel, 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.