



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(C-FTIS)

Machine Id

[C-FTIS] CESSNA C421B 817563

Component

Left Piston Aircraft Engine

Fluid

PHILLIPS 66 AVIATION X/C OIL SAE20W50 (13 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0952990	WC0776204	WC0685310
Sample Date		Client Info		25 Jun 2024	15 May 2023	28 Mar 2022
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		251	226	0
Oil Age	hrs	Client Info		26	11	17
Filter Age	hrs	Client Info		26	11	17
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	82	65	76
Chromium	ppm	ASTM D5185(m)	>20	11	8	12
Nickel	ppm	ASTM D5185(m)	>15	17	9	16
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	6	5	8
Lead	ppm	ASTM D5185(m)	>20000	3572	2343	3601
Copper	ppm	ASTM D5185(m)	>25	4	4	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

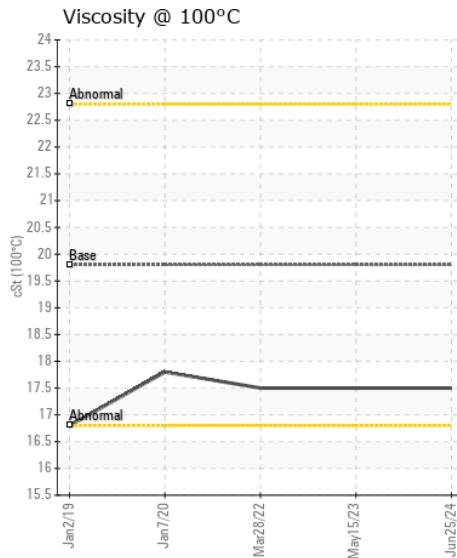
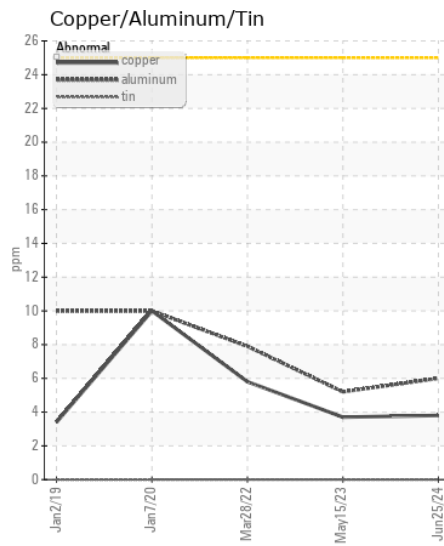
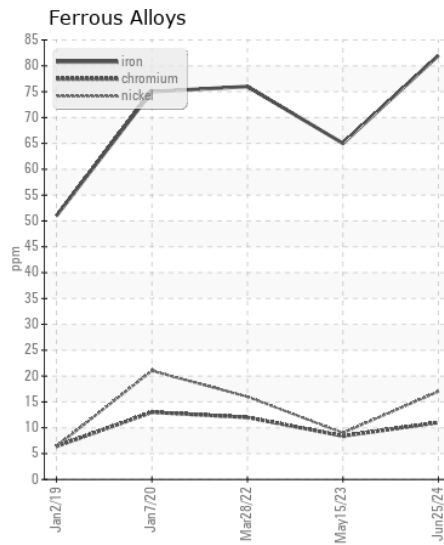
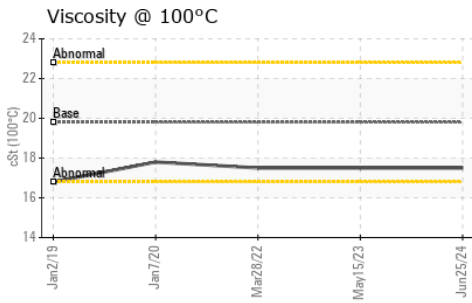
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	5	7	9
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
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	NONE	NONE	VLITE
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)		0	<1	<1
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		5	4	5
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		<1	0	5
Calcium	ppm	ASTM D5185(m)		<1	0	6
Phosphorus	ppm	ASTM D5185(m)		9	18	61
Zinc	ppm	ASTM D5185(m)		8	7	18
Sulfur	ppm	ASTM D5185(m)		1098	1049	1210
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	17.5	17.5	17.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0952990
Lab Number : 02644157
Unique Number : 5801696
Test Package : AVI 1
Received : 26 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 27 Jun 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.