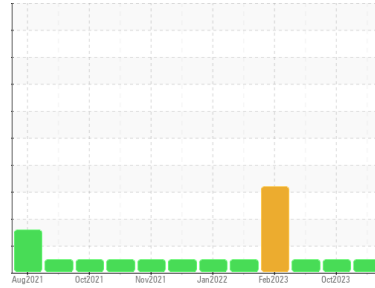




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(C-GHCE)
Machine Id
[C-GHCE] CESSNA 421C 808346-R
Component
Right Piston Aircraft Engine
Fluid
PHILLIPS 66 AVIATION X/C OIL SAE20W50 (13 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0882502	WC0849568	WC0816787
Sample Date	Client Info		16 Nov 2023	11 Oct 2023	18 Aug 2023
TSN	hrs Client Info		0	0	0
TSO	hrs Client Info		590	541	492
Oil Age	hrs Client Info		24	29	29
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)	>90	43	41	53
Chromium	ppm ASTM D5185(m)	>20	9	10	11
Nickel	ppm ASTM D5185(m)	>15	23	22	28
Titanium	ppm ASTM D5185(m)		0	0	<1
Silver	ppm ASTM D5185(m)	>5	<1	0	0
Aluminum	ppm ASTM D5185(m)	>25	6	7	14
Lead	ppm ASTM D5185(m)	>20000	3888	3972	4142
Copper	ppm ASTM D5185(m)	>25	4	4	6
Tin	ppm ASTM D5185(m)	>30	0	0	1
Antimony	ppm ASTM D5185(m)		0	0	0
Vanadium	ppm ASTM D5185(m)		0	0	0
Beryllium	ppm ASTM D5185(m)		0	0	0
Cadmium	ppm ASTM D5185(m)		<1	1	2

ADDITIVES

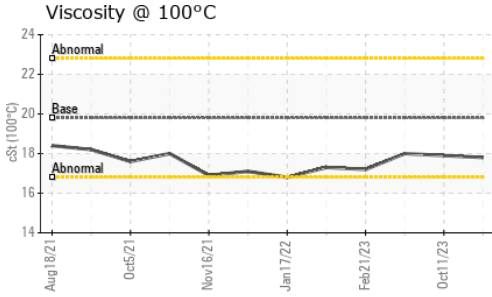
	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)		<1	0	<1
Barium	ppm ASTM D5185(m)		0	0	0
Molybdenum	ppm ASTM D5185(m)		6	7	11
Manganese	ppm ASTM D5185(m)		0	0	<1
Magnesium	ppm ASTM D5185(m)		<1	<1	<1
Calcium	ppm ASTM D5185(m)		<1	1	9
Phosphorus	ppm ASTM D5185(m)		1	3	5
Zinc	ppm ASTM D5185(m)		2	2	10
Sulfur	ppm ASTM D5185(m)		937	1098	1072
Lithium	ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>15	7	14	29
Sodium	ppm ASTM D5185(m)		<1	1	2
Potassium	ppm ASTM D5185(m)	>20	0	0	<1



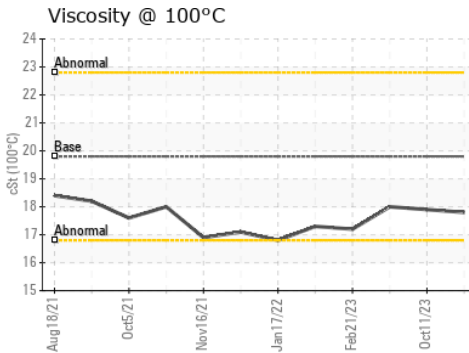
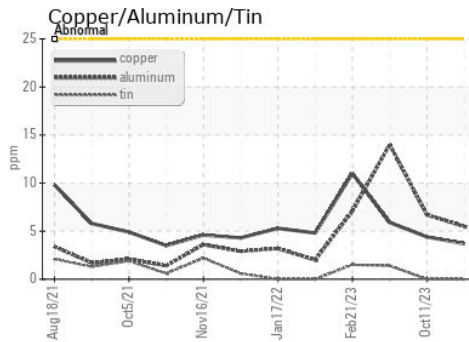
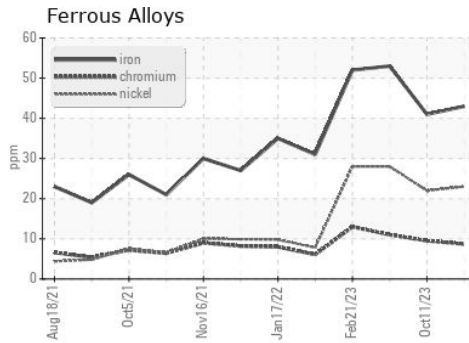
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	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
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	17.8	17.9	18.0

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0882502 **Received** : 05 Dec 2023
Lab Number : **02600948** **Diagnosed** : 06 Dec 2023
Unique Number : 5694033 **Diagnostician** : 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.

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