



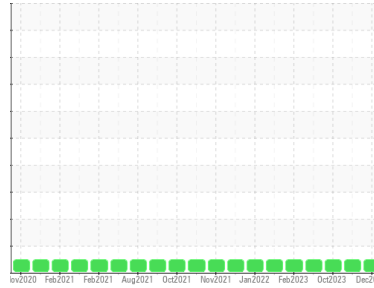
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
(C-GHCE)
 Machine Id
[C-GHCE] CESSNA 421C 610322
 Component
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		WC0882494	WC0869663	WC0869654
Sample Date	Client Info		15 Dec 2023	16 Nov 2023	11 Oct 2023
TSN	hrs Client Info		0	0	0
TSO	hrs Client Info		919	873	823
Oil Age	hrs Client Info		19	24	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	35	40	38
Chromium	ppm ASTM D5185(m)	>20	9	11	11
Nickel	ppm ASTM D5185(m)	>15	16	20	18
Titanium	ppm ASTM D5185(m)		0	0	0
Silver	ppm ASTM D5185(m)	>5	0	<1	<1
Aluminum	ppm ASTM D5185(m)	>25	3	3	3
Lead	ppm ASTM D5185(m)	>20000	3971	4279	4233
Copper	ppm ASTM D5185(m)	>25	4	4	4
Tin	ppm ASTM D5185(m)	>30	0	0	0
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	<1

ADDITIVES

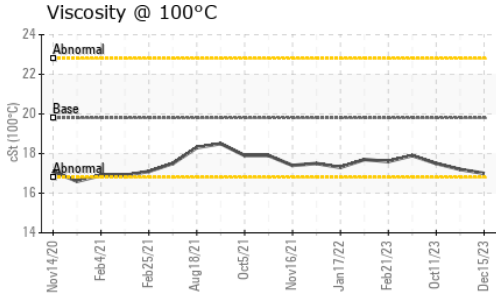
	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)		0	<1	0
Barium	ppm ASTM D5185(m)		0	0	0
Molybdenum	ppm ASTM D5185(m)		3	4	4
Manganese	ppm ASTM D5185(m)		0	0	0
Magnesium	ppm ASTM D5185(m)		<1	<1	<1
Calcium	ppm ASTM D5185(m)		0	<1	<1
Phosphorus	ppm ASTM D5185(m)		0	0	<1
Zinc	ppm ASTM D5185(m)		1	1	1
Sulfur	ppm ASTM D5185(m)		1013	1019	1156
Lithium	ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>15	3	3	4
Sodium	ppm ASTM D5185(m)		0	<1	<1
Potassium	ppm ASTM D5185(m)	>20	2	0	0



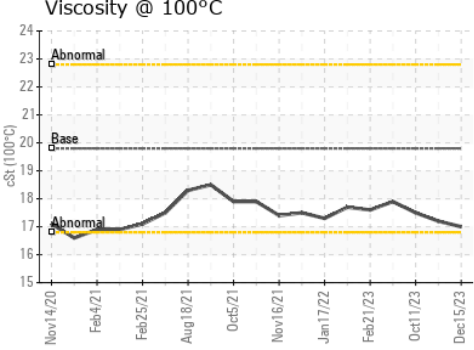
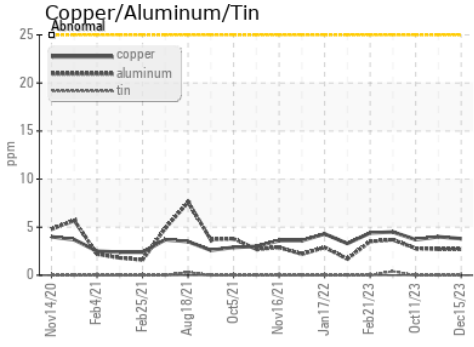
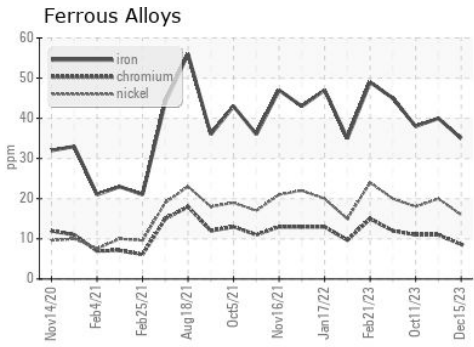
OIL ANALYSIS REPORT



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	NONE
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	17.0	17.2

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0882494 **Received** : 02 Jan 2024
Lab Number : **02605880** **Diagnosed** : 03 Jan 2024
Unique Number : 5706966 **Diagnostician** : Kevin Marson
Test Package : AVI 1 (Additional Tests: FT-IR)

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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