



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(CFWHY)

Machine Id

[CFWHY] BEECH A36 249461-R

Component

Piston Aircraft Engine

Fluid

PHILLIPS 66 AVIATION X/C OIL SAE20W50 (12 LTR)

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0882182	WC0841066	WC0820312
Sample Date		Client Info		16 Apr 2024	14 Oct 2023	21 Jun 2023
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		2189	2174	2149
Oil Age	hrs	Client Info		10	24	24
Filter Age	hrs	Client Info		10	24	24
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	29	54	50
Chromium	ppm	ASTM D5185(m)	>20	5	5	5
Nickel	ppm	ASTM D5185(m)	>15	5	8	8
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>5	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	15	21	18
Lead	ppm	ASTM D5185(m)	>20000	1991	4357	4533
Copper	ppm	ASTM D5185(m)	>25	3	5	5
Tin	ppm	ASTM D5185(m)	>30	0	0	<1
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

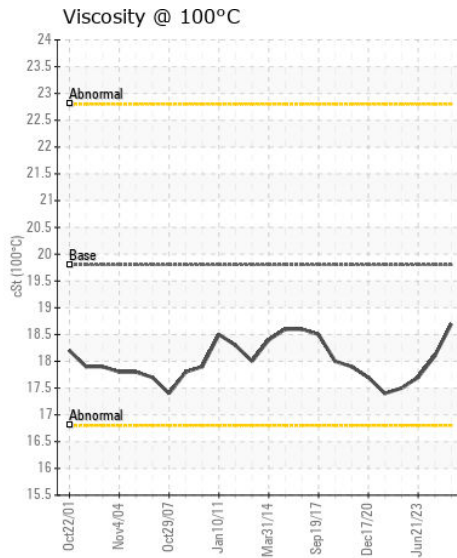
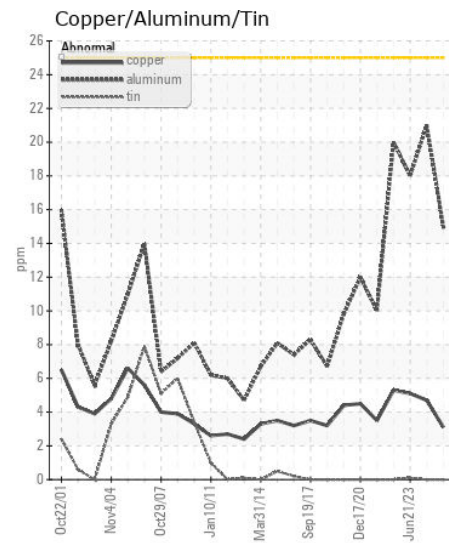
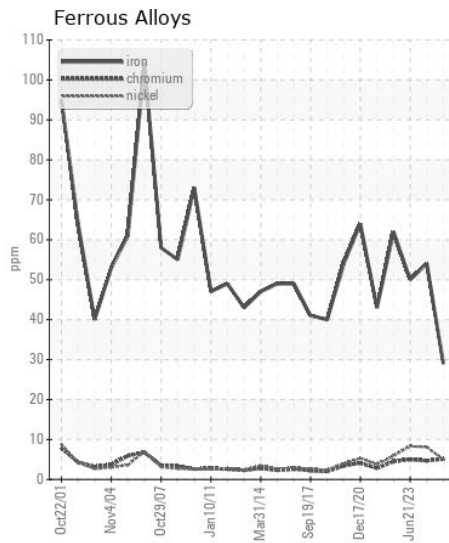
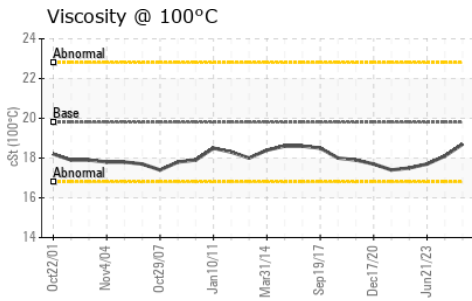
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	12	5	5
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
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	VLITE	LIGHT	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)		<1	1	<1
Boron	ppm	ASTM D5185(m)		<1	<1	0
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		3	3	4
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	<1	2
Calcium	ppm	ASTM D5185(m)		2	<1	1
Phosphorus	ppm	ASTM D5185(m)		210	1135	1253
Zinc	ppm	ASTM D5185(m)		2	4	5
Sulfur	ppm	ASTM D5185(m)		999	1242	935
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	18.7	18.1	17.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0882182  
**Lab Number** : 02629921  
**Unique Number** : 5763053  
**Test Package** : AVI 1  
**Received** : 18 Apr 2024  
**Tested** : 18 Apr 2024  
**Diagnosed** : 18 Apr 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.