WEAR CONTAMINANTS OIL CONDITION **NORMAL NORMAL NORMAL**

(C-GWIE)

[C-GWIE] CESSNA 210-5A CS109299-R

Piston Aircraft Engine

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

RECOMMENDATION

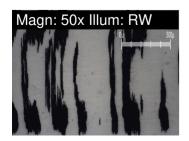
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0725558		
Sample Date		Client Info		15 Apr 2024		
TSN	hrs	Client Info		2524		
TSO	hrs	Client Info		776		
Oil Age	hrs	Client Info		26		
Filter Age	hrs	Client Info		26		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
		40714.054.054				
Iron	ppm	ASTM D5185(m)	>90	50		
01 '		AOTH DELOCA	00	_		

WEAR

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

Magn: 200x Illum: BC	
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TSN	hrs	Client Info		2524	
TSO	hrs	Client Info		776	
Oil Age	hrs	Client Info		26	
Filter Age	hrs	Client Info		26	
Oil Changed		Client Info		Changed	
Filter Changed		Client Info		Changed	
Sample Status				NORMAL	
		AOTA DE40E()		50	
Iron	ppm	ASTM D5185(m)	>90	50	
Chromium	ppm	ASTM D5185(m)	>20	8	
Nickel	ppm	ASTM D5185(m)	>15	11	
Titanium	ppm	ASTM D5185(m)		0	
Silver	ppm	ASTM D5185(m)	>5	0	
Aluminum	ppm	ASTM D5185(m)	>25	26	
Lead	ppm	ASTM D5185(m)	>20000	2519	
Copper	ppm	ASTM D5185(m)	>25	5	
Tin	ppm	ASTM D5185(m)	>30	0	
Vanadium	ppm	ASTM D5185(m)		0	
White Metal	scalar	Visual*	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	
Large Particles		DR-Ferr*		14.5	
Small Particles		DR-Ferr*		9.2	
Total Particles		DR-Ferr*	>	23.7	
Large Particles Percentage	%	DR-Ferr*		22.4	
Severity Index		DR-Ferr*		77	
Ferrous Rubbing	Scale 0-10	ASTM D7684*		5	
Ferrous Sliding	Scale 0-10	ASTM D7684*			
Ferrous Cutting	Scale 0-10	ASTM D7684*			
Ferrous Rolling	Scale 0-10	ASTM D7684*		2	
Ferrous Break-in	Scale 0-10	ASTM D7684*			
Ferrous Spheres	Scale 0-10	ASTM D7684*			
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		1	
Ferrous Red Oxides	Scale 0-10	ASTM D7684*			
Ferrous Corrosive	Scale 0-10	ASTM D7684*		2	
Ferrous Other	Scale 0-10	ASTM D7684*			
Nonferrous Rubbing	Scale 0-10	ASTM D7684*			
Nonferrous Sliding	Scale 0-10	ASTM D7684*			
Nonferrous Cutting	Scale 0-10	ASTM D7684*			
Nonferrous Rolling	Scale 0-10	ASTM D7684*			
Nonferrous Other	Scale 0-10	ASTM D7684*			

CONTAMINANTS

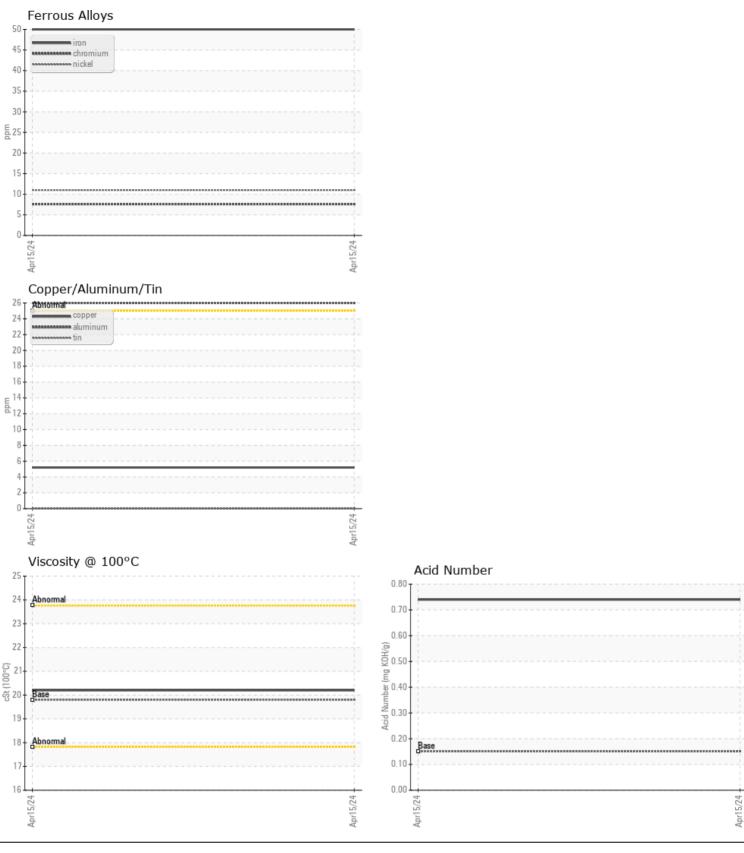
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	7	
Potassium	ppm	ASTM D5185(m)	>20	<1	
Fuel		WC Method	>4.0	<1.0	
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	
Carbonaceous Material	Scale 0-10	ASTM D7684*			
Sand/Dirt	Scale 0-10	ASTM D7684*		1	
Fibres	Scale 0-10	ASTM D7684*			
Spheres	Scale 0-10	ASTM D7684*			
Other	Scale 0-10	ASTM D7684*		2	
Sodium	nnm	ASTM D5185(m)			

OIL CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<1	
Boron	ppm	ASTM D5185(m)		<1	
Barium	ppm	ASTM D5185(m)		0	
Molybdenum	ppm	ASTM D5185(m)		6	
Manganese	ppm	ASTM D5185(m)		0	
Magnesium	ppm	ASTM D5185(m)		1	
Calcium	ppm	ASTM D5185(m)		83	
Phosphorus	ppm	ASTM D5185(m)		38	
Zinc	ppm	ASTM D5185(m)		3	
Sulfur	ppm	ASTM D5185(m)		1377	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.15	0.74	
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	20.2	
Lubricant Degradation	Scale 0-10	ASTM D7684*			





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. : WC0725558 Lab Number : 02629592

Unique Number : 5762724 Test Package : AVI 3

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 17 Apr 2024 **Tested** : 23 Apr 2024

Diagnosed

: 23 Apr 2024 - Kevin Marson

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.

GENERAL AIRSPRAY LTD.

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Contact: Paul Hodgins genairspray@hotmail.com

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