

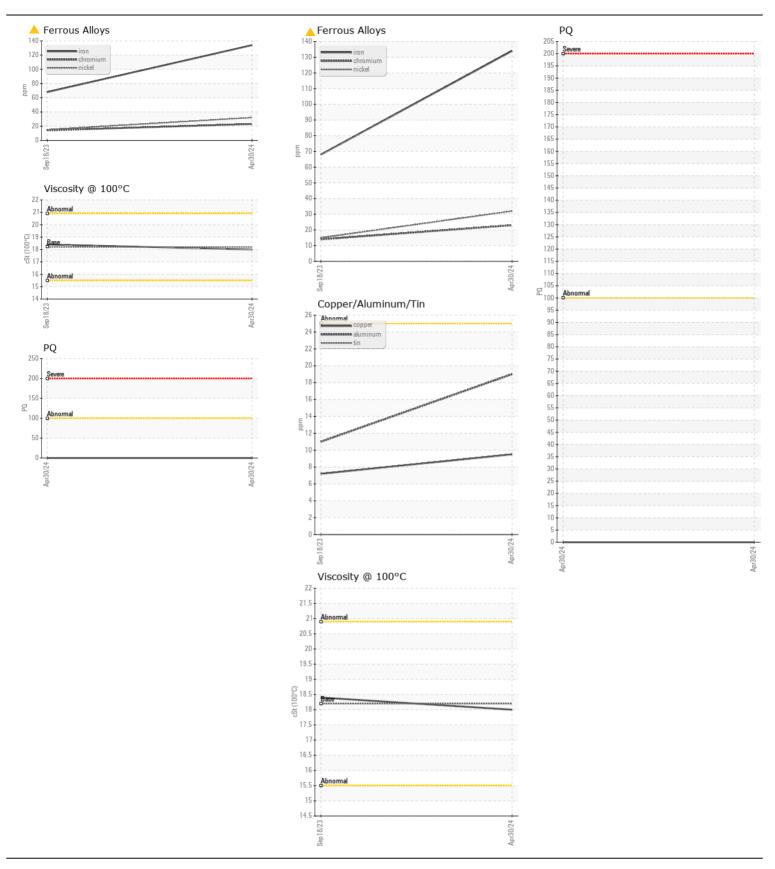
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

(C-GMNJ)

[C-GMNJ] CIRRUS SR22 917294

Piston Aircraft Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the engine tuning and timing. We advise that you check for excessive valve and valve guide clearance. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	LIIIIU/ADII	WC0921445	WC0841053	
	Sample Date		Client Info		30 Apr 2024	18 Sep 2023	
	TSN	hrs	Client Info		1384	1360	
	TSO	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		24	43	
	Filter Age	hrs	Client Info		24	43	
	Oil Changed	1113	Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				ABNORMAL	NORMAL	
WEAR	PQ		ASTM D8184*		0		
Nickel ppm levels are abnormal. Exhaust valve wear is indicated.	Iron	ppm	ASTM D5185(m)	>90	134	68	
	Chromium	ppm	ASTM D5185(m)	>20	23	14	
	Nickel	ppm	ASTM D5185(m)	>15	<u></u> 32	15	
	Titanium	ppm	ASTM D5185(m)		<1	<1	
	Silver	ppm	ASTM D5185(m)	>5	0	0	
	Aluminum	ppm	ASTM D5185(m)	>25	19	11	
	Lead	ppm	ASTM D5185(m)	>20000	6048	5989	
	Copper	ppm	ASTM D5185(m)	>25	10	7	
	Tin	ppm	ASTM D5185(m)	>30	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Ciliaaa		ACTM DE10E()	4.5		_	
There is no indication of any contamination in the oil.	Silicon Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>15	5 <1	5 <1	
	Fuel	ppm	WC Method	>4.0	<1.0	<1.0	
	Water		WC Method		<1.0 NEG	NEG	
	Glycol		WC Method	>0.1	NEG	NEG	
	Silt	scalar	Visual*	NONE	VLITE	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		Visual*	>0.1	NEG	.2%	
<u></u>	Liliuisilleu watei		v isuai	>0.1		.∠ /0	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	<1	
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185(m)		<1	0	
	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)	5	8	5	
	Manganese	ppm	ASTM D5185(m)		0	0	
	Magnesium	ppm	ASTM D5185(m)	10	1	<1	
	Calcium	ppm	, ,	10	63	8	
	Phosphorus	ppm	ASTM D5185(m)		1026	989	
	Zinc	ppm	ASTM D5185(m)		6	6	
	Sulfur	ppm	ASTM D5185(m)		1648	1176	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0921445 Lab Number : 02633097

Received **Tested** Unique Number : 5774250

Diagnosed Test Package : AVI 1 (Additional Tests: PQ)

: 03 May 2024 : 03 May 2024

: 03 May 2024 - Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CORPORATE AIRCRAFT RESTORATIONS **481 AVIATOR LANE** OSHAWA, ON CA L1J 0B8 Contact: Dave Douglas hanger@bellnet.ca

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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