

(C-FITZ) Machine Id [C-FITZ] CIRRUS SR22T 1036107 Component

Front Piston Aircraft Engine

SHELL AEROSHELL W 15W50 MGR (8 LTR)

RECOMMENDATION

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.

WEAR

Nickel ppm levels are abnormal. Exhaust valve wear is indicated.

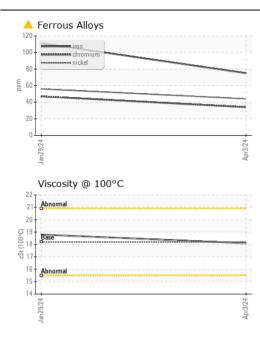
CONTAMINATION

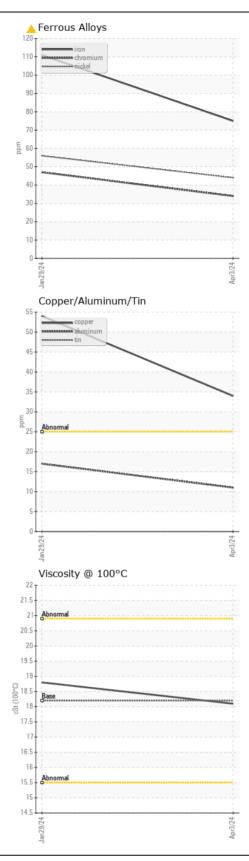
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
Sample Number		Client Info		w	C0821895	WC0821897	
Sample Date		Client Info		03	Apr 2024	29 Jan 2024	
TSN	hrs	Client Info		78	•	756	
TSO	hrs	Client Info		0		0	
Oil Age	hrs	Client Info		28	;	41	
Filter Age	hrs	Client Info		28	;	41	
Oil Changed		Client Info		Cł	nanged	Changed	
Filter Changed		Client Info			nanged	Changed	
Sample Status				AB	NORMAL	ABNORMAL	
Iron	ppm	ASTM D5185(m)	>90		75	111	
Chromium	ppm	ASTM D5185(m)	>20		34	4 7	
Nickel	ppm	ASTM D5185(m)	>15		44	5 6	
Titanium	ppm	ASTM D5185(m)			1	<1	
Silver	ppm	ASTM D5185(m)	>5		0	0	
Aluminum	ppm	ASTM D5185(m)	>25		11	17	
Lead	ppm	ASTM D5185(m)	>20000		7680	9435	
Copper	ppm	ASTM D5185(m)	>25		34	5 4	
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	
Silicon		ASTM D5185(m)	>15		8	13	
Potassium	ppm	ASTM D5185(m)	>15		o <1	<1	
Fuel	ppm	WC Method	>2.0		<1.0	<1.0	
Water		WC Method	>0.1		NEG	NEG	
Glycol		WC Method	>0.1		NEG	NEG	
Silt	scalar	Visual*	NONE		VLITE	VLITE	
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	
		•••••••				NEG	
Sodium	ppm	ASTM D5185(m)			<1	<1	
Boron	ppm	ASTM D5185(m)			<1	<1	
Barium	ppm	ASTM D5185(m)			0	0	
Molybdenum	ppm	ASTM D5185(m)	5		9	18	
Manganese	ppm	ASTM D5185(m)			0	0	
Magnesium	ppm	ASTM D5185(m)	10		2	2	
Calcium	ppm	ASTM D5185(m)	10		4	4	
Phosphorus	ppm	ASTM D5185(m)	1280		1090	1004	
Zinc	ppm	ASTM D5185(m)	10		8	8	
Sulfur	ppm	ASTM D5185(m)	1800		1430	1420	
Visc @ 100°C	cSt	ASTM D7279(m)	18.2		18.1	18.8	
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FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.





HANDFIELD AVIATION Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0821895 Received : 09 Apr 2024 4920 RTE DE L'AEROPORT Lab Number : 02627685 Tested : 09 Apr 2024 ST-HUBERT, QC ISO 17025:2017 Accredited Laboratory Unique Number : 5760817 Diagnosed : 09 Apr 2024 - Kevin Marson CA J3Y 8Y9 Test Package : AVI 1 Contact: Pierre To discuss this sample report, contact Customer Service at 1-800-268-2131. maintenance@handfieldaviation.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (450)462-8511 Validity of results and interpretation are based on the sample and information as supplied. F:

Contact/Location: Pierre ? - HANSTH Page 2 of 2