

(C-GHRN) Machine Id [C-GHRN] CIRRUS SR222T 1046304 Component

Front Piston Aircraft Engine

PHILLIPS 66 AVIATION TYPE M SAE 20W50 (8 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.



All component wear rates are normal.

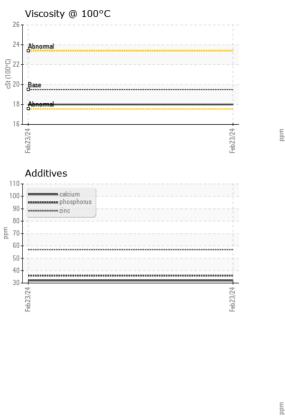
CONTAMINATION

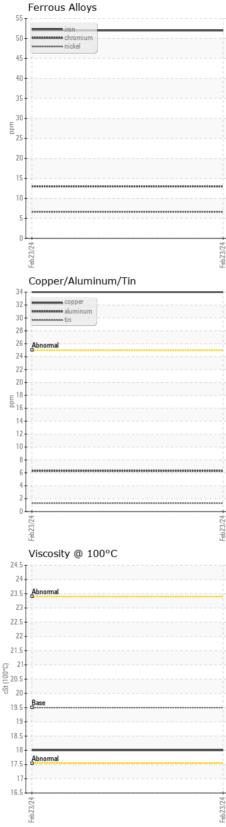
There is no indication of any contamination in the oil.

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0821900		
Sample Date		Client Info		23 Feb 2024		
TSN	hrs	Client Info		28		
TSO	hrs	Client Info		28		
Oil Age	hrs	Client Info		28		
Filter Age	hrs	Client Info		28		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185(m)	>90	52		
Chromium	ppm	ASTM D5185(m)	>20	13		
Nickel	ppm	ASTM D5185(m)	>15	7		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)	>25	6		
Lead	ppm	ASTM D5185(m)	>20000	1913		
Copper	ppm	ASTM D5185(m)	>25	34		
Tin	ppm	ASTM D5185(m)	>30	1		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
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Silicon	ppm	ASTM D5185(m)	>15	31		
Potassium	ppm	ASTM D5185(m)		<1		
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*	>20	4.9		
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.2		
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		
Sodium	ppm	ASTM D5185(m)		<1		
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		4		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		3		
Calcium	ppm	ASTM D5185(m)		32		
Phosphorus	ppm	ASTM D5185(m)		36		
Zinc	ppm	ASTM D5185(m)		57		
Sulfur	ppm	ASTM D5185(m)		1328		
Oxidation	Abs/.1mm	ASTM D3103(III) ASTM D7414*	>25	9.9		
Visc @ 100°C	cSt	ASTM D7279(m)	19.5	18.0		
	001	101101213(III)	10.0	10.0		





HANDFIELD AVIATION 4920 RTE DE L`AEROPORT ST-HUBERT, QC CA J3Y 8Y9 Contact: Pierre maintenance@handfieldaviation.com T: (450)462-8511 F:



 Accredited Laboratory
 Unique Number
 : 5735768
 Diagnosed
 : 29 Feb 2024 - Kevin Marson

 To discuss this sample report, contact Customer Service at 1-800-268-2131.
 To discuss this sample report, contact Customer Service at 1-800-268-2131.
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 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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: WC0821900

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received

Tested

: 28 Feb 2024

: 28 Feb 2024

CALA

Laboratory

Sample No.

Lab Number : 02618658