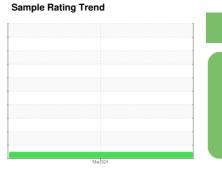


# **OIL ANALYSIS REPORT**

# (C-FCGA) [C-FCGA] VANS RV-14 EL-1274-80E

Piston Aircraft Engine

PHILLIPS 66 AVIATION X/C OIL SAE20W5





# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

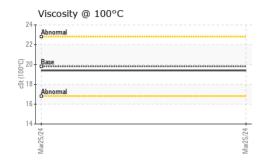
## **Fluid Condition**

The condition of the oil is acceptable for the time in service.

( GAL)				Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0918428		
Sample Date		Client Info		25 Mar 2024		
TSN	hrs	Client Info		289		
TSO	hrs	Client Info		289		
Oil Age	hrs	Client Info		15		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
-uel		WC Method	>4.0	<1.0		
Nater		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>90	10		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>15	1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)		1		
_ead	ppm	ASTM D5185(m)	>20000	1690		
Copper	ppm		>25	3		
Гin	ppm	ASTM D5185(m)	>30	0		
Antimony	ppm	ASTM D5185(m)		0		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		2		
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185(m)	IIIIIIIIIII	0		
Barium	ppm	ASTM D5185(m)		0		
	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	\ /		-		
Manganese	ppm	ASTM D5185(m) ASTM D5185(m)		0		
Magnesium	ppm	( /		<1		
Calcium	ppm	ASTM D5185(m)		72		
Phosphorus	ppm	ASTM D5185(m)		41		
Zinc	ppm	ASTM D5185(m)		2		
Sulfur	ppm	ASTM D5185(m)		1303		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	2		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		



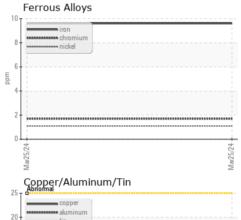
# **OIL ANALYSIS REPORT**

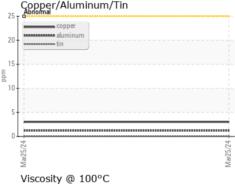


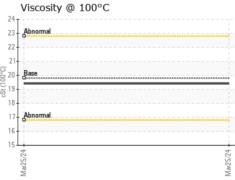
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
<b>Emulsified Water</b>	scalar	Visual*	>0.1	NEG		
Free Water	scalar	Visual*		NEG		

FLUID PROPER	TIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	19.4		

### **GRAPHS**









CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Unique Number : 5762321 Test Package : AVI 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sample No. : WC0918428 Lab Number : 02629189

Received Tested

: 16 Apr 2024 : 17 Apr 2024

Diagnosed

: 17 Apr 2024 - Kevin Marson

Contact: James V james@wcsaviation.com T: (519)972-7271 F: (519)972-8355

W.C.S. AVIATION LTD.

WINDSOR, ON

CA N8V 1A1

2600 AIRPORT ROAD UNIT 108

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.