

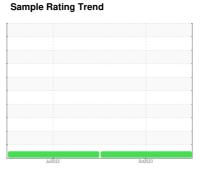
OIL ANALYSIS REPORT

(C-GVBG) MIKE MOON

[C-GVBG] CESSNA 177RG RL-1626-80E

Front Piston Aircraft Engine

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





DIAGNOSIS

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

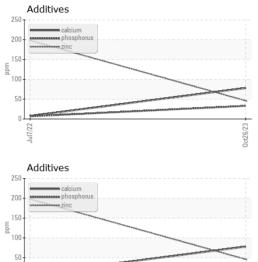
Fluid Condition

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.

0 (0 L111)			Jul2022	Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0722105	WC0518462	
Sample Date		Client Info		26 Oct 2023	07 Jul 2022	
TSN	hrs	Client Info		145	69	
TSO	hrs	Client Info		145	0	
Oil Age	hrs	Client Info		41	48	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	24	39	
Chromium	ppm	ASTM D5185(m)	>20	4	8	
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>5	<1	0	
Aluminum	ppm	ASTM D5185(m)	>25	8	10	
Lead	ppm	ASTM D5185(m)	>20000	3670	4927	
Copper	ppm	ASTM D5185(m)	>25	11	41	
Tin	ppm	ASTM D5185(m)	>30	0	1	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		14	66	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	
Barium	ppm	ASTM D5185(m)		<1	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		2	8	
Calcium	ppm	ASTM D5185(m)		78	8	
Phosphorus	ppm	ASTM D5185(m)		33	7	
Zinc	ppm	ASTM D5185(m)		46	198	
Sulfur	ppm	ASTM D5185(m)		1332	975	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	10	20	
Sodium	ppm	ASTM D5185(m)		1	2	
Potassium	ppm	ASTM D5185(m)	>20	0	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*	>20	5.9		
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2		



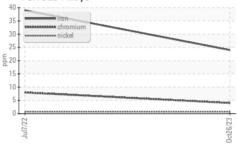
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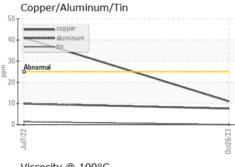


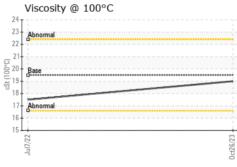
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.1		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate	scalar	Visual*	NONE	NONE	NONE	
Silt	scalar	Visual*	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	scalar	Visual*	>0.1	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	19.5	19.0	17.5	

GRAPHS

Ferrous Alloys









CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5669463

: WC0722105 : 02592384

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

: 27 Oct 2023 : 27 Oct 2023 Diagnostician : Kevin Marson

BRAMPTON FLIGHT CENTRE 13691 MCLAUHLIN RD, P.O. BOX 27 CHELTENHAM CALEDON, ON

CA LOP 1C0 Contact: Jennifer Blunt parts@bramfly.com T: (905)838-1400

Test Package : AVI 1 (Additional Tests: FT-IR) 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.

F: (905)838-3612