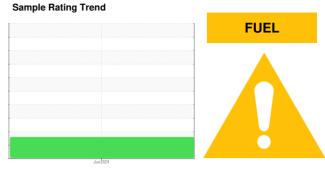


# **OIL ANALYSIS REPORT**

(C-GWOC) **MURPHY 7703287** 

Piston Aircraft Engine

SHELL AEROSPORT PLUS 4 (--- LTR)



## **DIAGNOSIS**

### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

All component wear rates are normal.

## Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

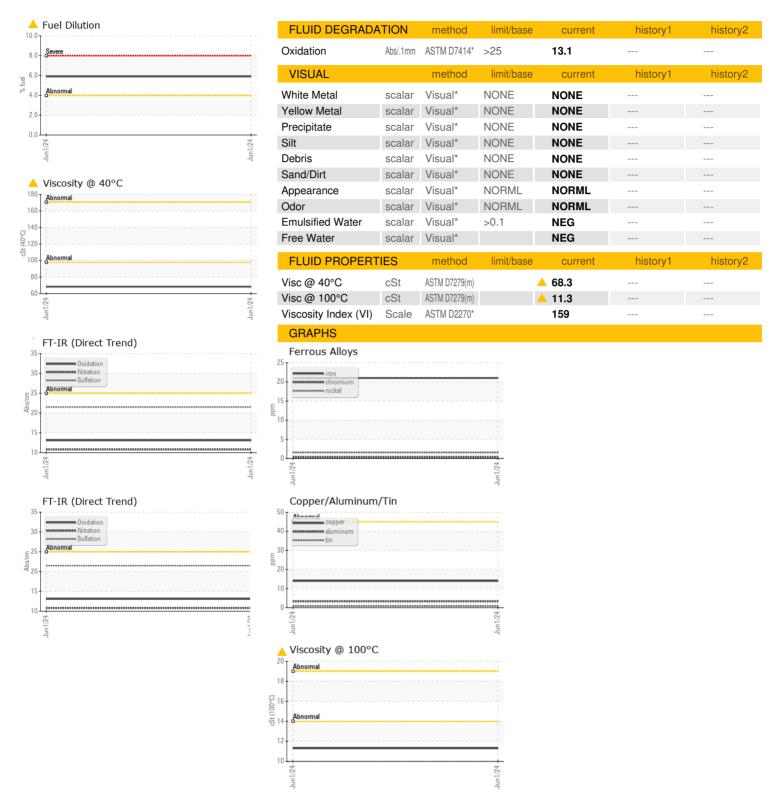
### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0944743		
Sample Date		Client Info		01 Jun 2024		
TSN	hrs	Client Info		85		
TSO	hrs	Client Info		85		
Oil Age	hrs	Client Info		25		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>260	21		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm	ASTM D5185(m)	>8	2		
Titanium	ppm	ASTM D5185(m)	>4	0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>20	3		
_ead	ppm	ASTM D5185(m)	>20000	9		
Copper	ppm	ASTM D5185(m)	>45	14		
Γin	ppm	ASTM D5185(m)	>8	<1		
Antimony	ppm	ASTM D5185(m)	>8	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)	>2	0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		61		
Barium	ppm	ASTM D5185(m)		2		
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		16		
Calcium	ppm	ASTM D5185(m)		2523		
Phosphorus	ppm	ASTM D5185(m)		1461		
Zinc	ppm	ASTM D5185(m)		1775		
Sulfur	ppm	ASTM D5185(m)		4173		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	8		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	4		
Fuel	%	ASTM D7593*	>4.0	<b>△</b> 5.9		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
litration	Abs/cm	ASTM D7624*	>20	10.8		
Nitration	AD3/0111	AOTIVI DI OZT	/20	10.0		



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number : 02642578

Unique Number : 5800117

: WC0944743

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

Received : 18 Jun 2024 **Tested** Diagnosed

: 19 Jun 2024 : 19 Jun 2024 - Kevin Marson Test Package : AVI 1 ( Additional Tests: FT-IR, FuelDilution, KV40, PercentFuel, VI )

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.

**Tim Kuntz** 520 Louise Ave North Listowel, ON **CA N4W 3V4** Contact: Tim Kuntz tkuntz99@gmail.com T: (226)930-0365 F: