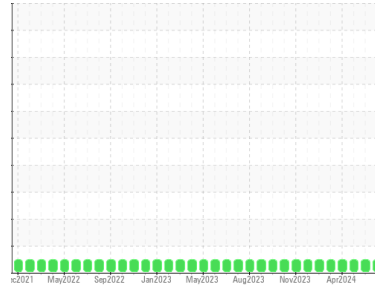




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

**(C-GBLQ)**

Machine Id

**[C-GBLQ] CESSNA 172S L-28657-51A**

Component

**Front Piston Aircraft Engine**

Fluid

**SHELL AEROSHELL W 15W50 MGR (8 LTR)**

### DIAGNOSIS

#### Recommendation

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 oil.

#### Fluid Condition

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

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0825451</b>	WC0743828	WC0743829
Sample Date	Client Info		<b>09 Jul 2024</b>	17 Jun 2024	13 May 2024
TSN	hrs	Client Info	<b>0</b>	0	0
TSO	hrs	Client Info	<b>3658</b>	3611	3557
Oil Age	hrs	Client Info	<b>47</b>	54	47
Oil Changed		Client Info	<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	<b>31</b>	16	15
Chromium	ppm	ASTM D5185(m)	>20	<b>5</b>	2	2
Nickel	ppm	ASTM D5185(m)	>15	<b>2</b>	2	2
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>9</b>	4	4
Lead	ppm	ASTM D5185(m)	>20000	<b>4517</b>	3992	3899
Copper	ppm	ASTM D5185(m)	>25	<b>9</b>	8	8
Tin	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0

### ADDITIVES

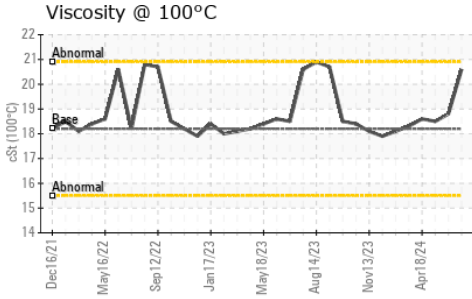
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	10	<b>1</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m)	1280	<b>1076</b>	1143	1122
Zinc	ppm	ASTM D5185(m)	10	<b>5</b>	6	6
Sulfur	ppm	ASTM D5185(m)	1800	<b>3982</b>	1564	1375
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	<b>10</b>	9	9
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0



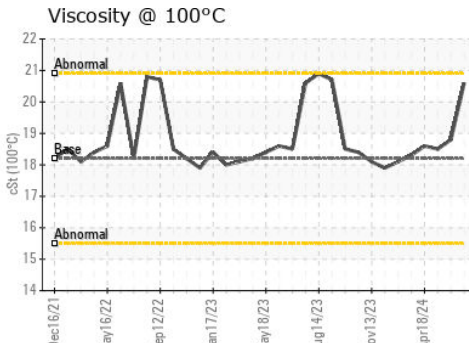
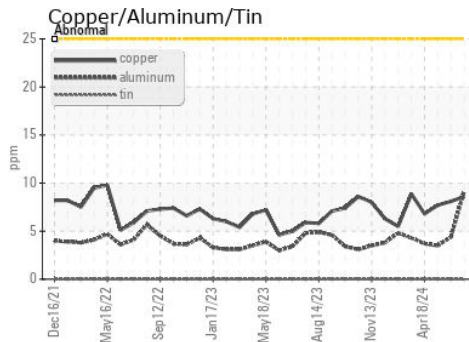
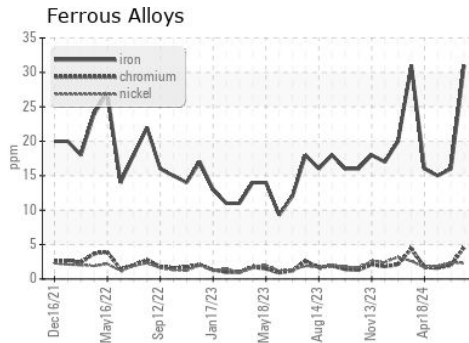
# OIL ANALYSIS REPORT



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	LIGHT
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 PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	<b>20.6</b>	18.8	18.5

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0825451      **Received** : 10 Jul 2024  
**Lab Number** : **02646989**      **Tested** : 10 Jul 2024  
**Unique Number** : 5812541      **Diagnosed** : 10 Jul 2024 - Kevin Marson  
**Test Package** : AVI 1

**CANADIAN FLIGHT ACADEMY**  
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 F: (905)404-8294

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.