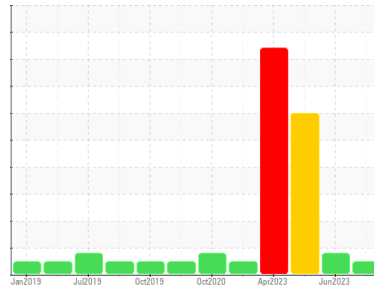




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

(CGBAQ)

Machine Id

[CGBAQ] CESSNA 172N L-6923-76T

Component

Front Piston Aircraft Engine

Fluid

SHELL AEROSHELL W 15W50 MGR (8 QTS)

## 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>WC0892282</b>	WC0827885	WC0806812
Sample Date	Client Info		<b>18 Mar 2024</b>	21 Jun 2023	16 May 2023
TSN	hrs	Client Info	<b>0</b>	0	0
TSO	hrs	Client Info	<b>447</b>	261	152
Oil Age	hrs	Client Info	<b>38</b>	60	50
Oil Changed		Client Info	<b>Changed</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	SEVERE

## 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>19</b>	13	34
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	6
Nickel	ppm	ASTM D5185(m)	>15	<b>2</b>	2	6
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>10</b>	5	8
Lead	ppm	ASTM D5185(m)	>20000	<b>3399</b>	3578	4014
Copper	ppm	ASTM D5185(m)	>25	<b>16</b>	41	61
Tin	ppm	ASTM D5185(m)	>30	<b>0</b>	0	<1
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>0</b>	<1	2

## ADDITIVES

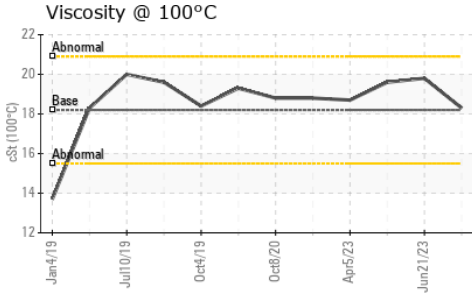
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	<1	2
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	10	<b>2</b>	0	2
Calcium	ppm	ASTM D5185(m)	10	<b>3</b>	<1	6
Phosphorus	ppm	ASTM D5185(m)	1280	<b>1082</b>	1060	1104
Zinc	ppm	ASTM D5185(m)	10	<b>4</b>	3	8
Sulfur	ppm	ASTM D5185(m)	1800	<b>1489</b>	1320	1243
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>9</b>	6	8
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1



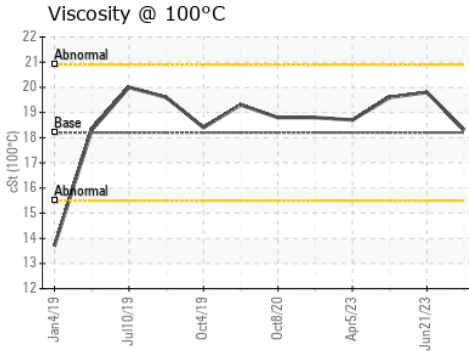
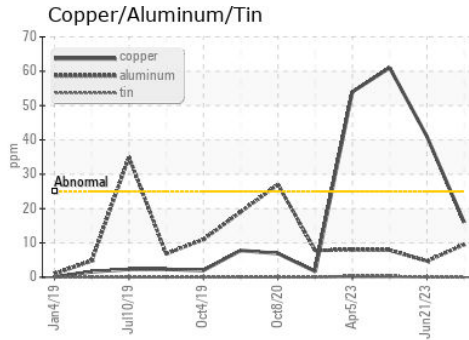
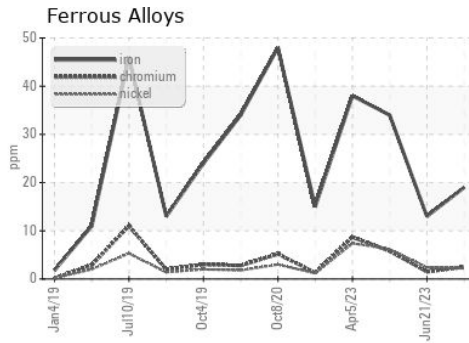
# OIL ANALYSIS REPORT



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	VLITE	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>18.3</b>	19.8	19.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0892282  
**Lab Number** : **02624931**  
**Unique Number** : 5750050  
**Test Package** : AVI 1

**ROCKCLIFFE FLYING CLUB**  
 1495 SIR GEORGE-ETIENNE, CARTIER PARKWAY MAINTENANCE  
 OTTAWA, ON  
 CA K1K 4Y5  
 Contact: Patrick Giunta  
 maintenance@rfc.ca  
 T: (613)746-4425  
 F: x:

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.