



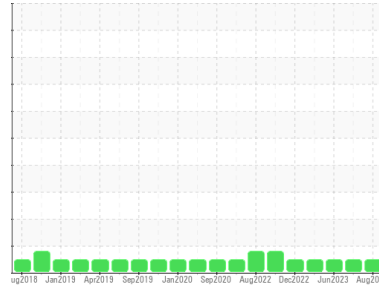
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(C-GSGG)**  
 Machine Id  
**[C-GSGG] CESSNA 172M L-41379-27A**  
 Component  
**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>WC0827886</b>	WC0827892	WC0827894
Sample Date	Client Info			<b>17 Aug 2023</b>	13 Jul 2023	15 Jun 2023
TSN	hrs Client Info			<b>0</b>	0	0
TSO	hrs Client Info			<b>2267</b>	2170	2070
Oil Age	hrs Client Info			<b>50</b>	50	50
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
Glycol	WC Method			<b>NEG</b>	NEG	NEG

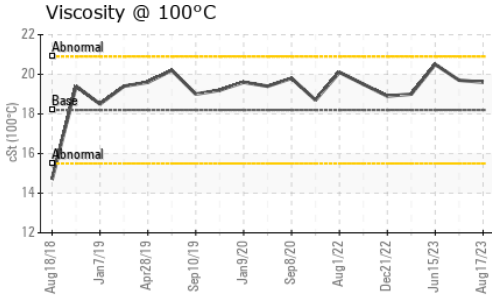
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	<b>10</b>	9	13
Chromium	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	5	6
Lead	ppm	ASTM D5185(m)	>20000	<b>3027</b>	3146	4295
Copper	ppm	ASTM D5185(m)	>25	<b>17</b>	17	23
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>0</b>	0	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>	<1	<1
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>	0	0
Calcium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	<1	1
Phosphorus	ppm	ASTM D5185(m)	1280	<b>1092</b>	1091	1050
Zinc	ppm	ASTM D5185(m)	10	<b>8</b>	8	9
Sulfur	ppm	ASTM D5185(m)	1800	<b>1353</b>	1361	1332
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>4</b>	4	4
Sodium	ppm	ASTM D5185(m)		<b>1</b>	<1	1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0



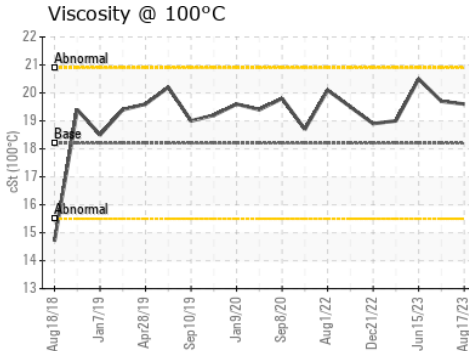
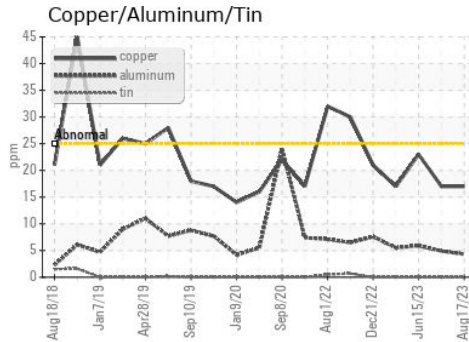
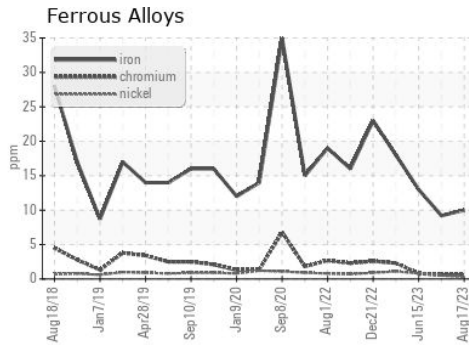
# OIL ANALYSIS REPORT



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	LIGHT	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>19.6</b>	19.7	20.5

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0827886  
**Lab Number** : **02589584**  
**Unique Number** : 5658650  
**Test Package** : AVI 1

**ROCKCLIFFE FLYING CLUB**  
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 OTTAWA, ON  
 CA K1K 4Y5  
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 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.