



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**(C-GSCQ)**  
Machine Id  
**[C-GSCQ] CESSNA 172N L-2099-76T (S/N 17268419)**  
Component  
**Piston Aircraft Engine**  
Fluid  
**SHELL AEROSHELL W 15W50 MGR (8 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0834790</b>	WC0615745	WC0768500
Sample Date		Client Info		<b>08 Sep 2023</b>	15 Jun 2023	22 Apr 2023
TSN	hrs	Client Info		<b>9770</b>	0	0
TSO	hrs	Client Info		<b>1106</b>	0	0
Oil Age	hrs	Client Info		<b>50</b>	50	50
Filter Age	hrs	Client Info		<b>50</b>	50	50
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>8</b>	9	16
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<b>4</b>	7	▲ 19
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>5</b>	4	8
Lead	ppm	ASTM D5185(m)	>20000	<b>3437</b>	3455	3700
Copper	ppm	ASTM D5185(m)	>25	<b>17</b>	18	16
Tin	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

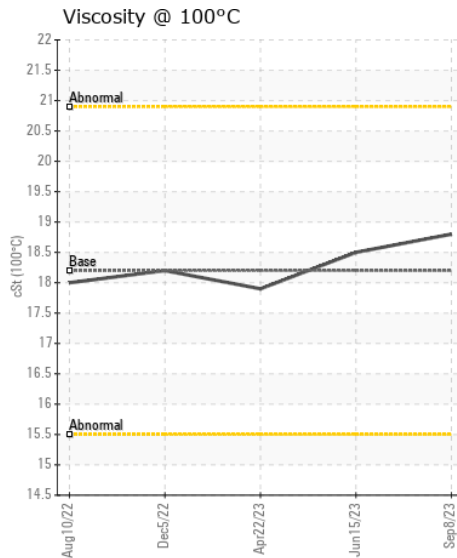
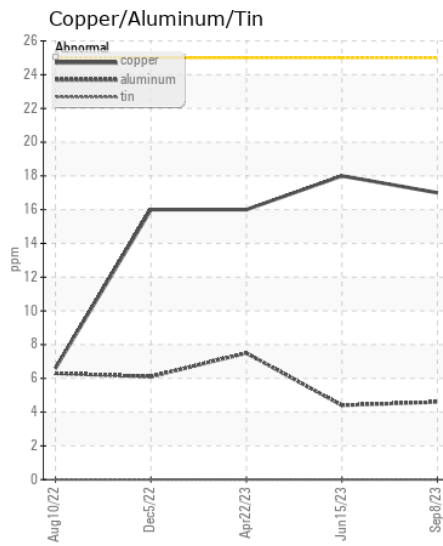
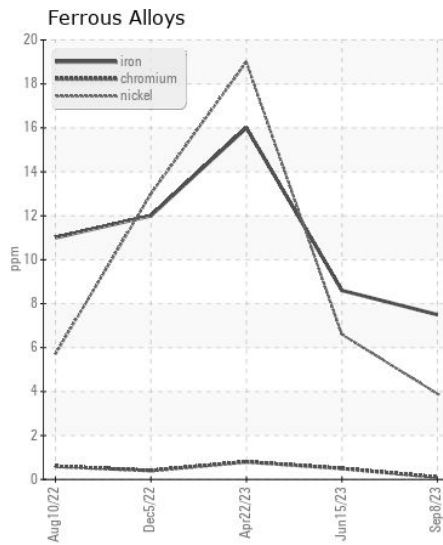
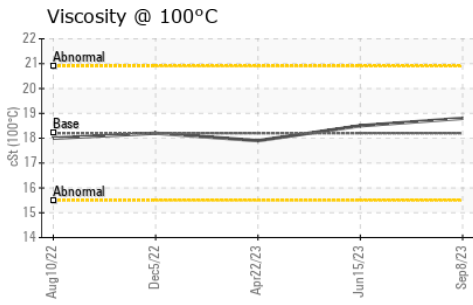
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>2</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
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
Silt	scalar	Visual*	NONE	<b>LIGHT</b>	MODER	VLITE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	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>&lt;1</b>	2	2
Calcium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	3	3
Phosphorus	ppm	ASTM D5185(m)	1280	<b>1179</b>	1225	1350
Zinc	ppm	ASTM D5185(m)	10	<b>5</b>	8	7
Sulfur	ppm	ASTM D5185(m)	1800	<b>1168</b>	1157	1153
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	<b>18.8</b>	18.5	17.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0834790  
**Lab Number** : 02631595  
**Unique Number** : 5772748  
**Test Package** : AVI 1  
**Received** : 26 Apr 2024  
**Tested** : 26 Apr 2024  
**Diagnosed** : 26 Apr 2024 - Kevin Marson

**AIR PARTNERS INC.**  
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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.