



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**(C-GSCQ) [13146]**  
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>WC0834810</b>	WC0834796	WC0834790
Sample Date		Client Info		<b>14 Feb 2024</b>	25 Oct 2023	08 Sep 2023
TSN	hrs	Client Info		<b>9871</b>	9824	9770
TSO	hrs	Client Info		<b>1258</b>	1208	1106
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

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>13</b>	7	8
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<b>12</b>	4	4
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>6</b>	4	5
Lead	ppm	ASTM D5185(m)	>20000	<b>3485</b>	3420	3437
Copper	ppm	ASTM D5185(m)	>25	<b>7</b>	9	17
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

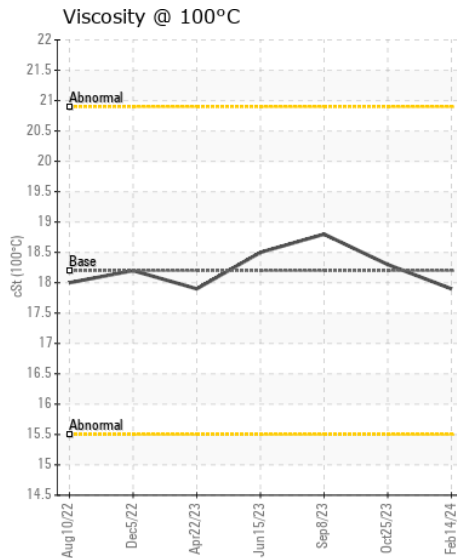
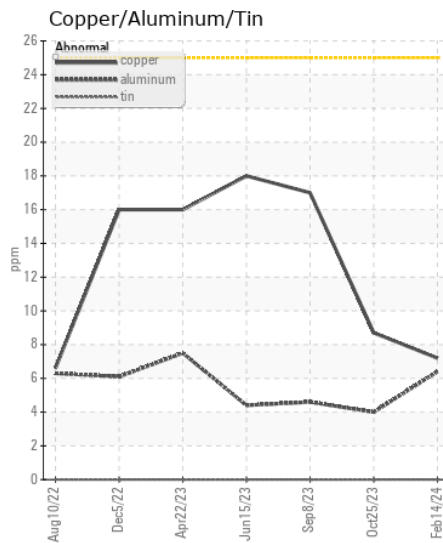
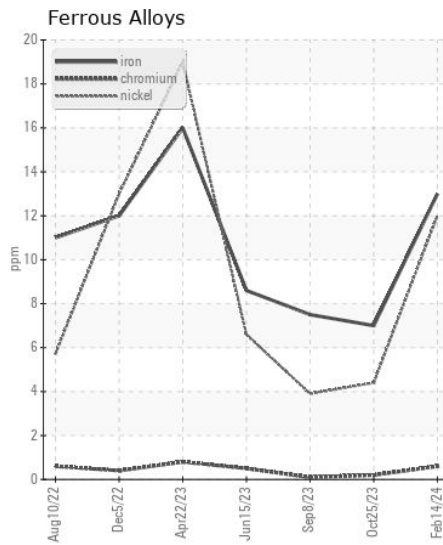
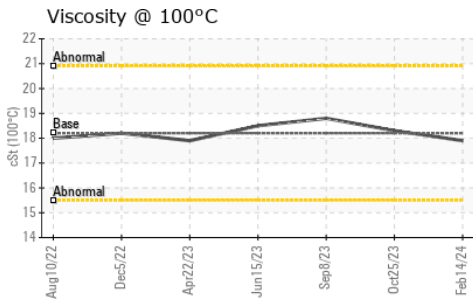
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>4</b>	5	2
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
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>	LIGHT	LIGHT
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>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m)	1280	<b>1165</b>	1134	1179
Zinc	ppm	ASTM D5185(m)	10	<b>4</b>	3	5
Sulfur	ppm	ASTM D5185(m)	1800	<b>1324</b>	1301	1168
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	<b>17.9</b>	18.3	18.8



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0834810  
**Lab Number** : 02631599  
**Unique Number** : 5772752  
**Test Package** : AVI 1

**Received** : 26 Apr 2024  
**Tested** : 26 Apr 2024  
**Diagnosed** : 26 Apr 2024 - Kevin Marson

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.

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