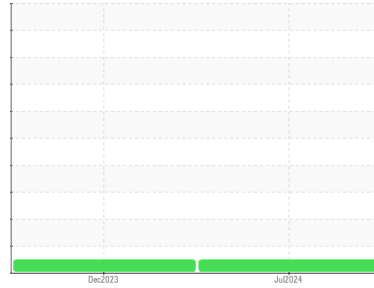




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

(C-GRXK)

Machine Id

[C-GRXK] CESSNA 182Q 467421

Component

Piston Aircraft Engine

Fluid

SHELL AEROSHELL W 80 (12 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		WC0965073	WC0899952	---
Sample Date	Client Info		13 Jul 2024	10 Dec 2023	---
TSN	hrs	Client Info	2617	2575	---
TSO	hrs	Client Info	1211	1170	---
Oil Age	hrs	Client Info	41	21	---
Oil Changed		Client Info	Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	---
Water	WC Method	>0.1	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		42	---	---
Iron	ppm	ASTM D5185(m) >90	107	62	---
Chromium	ppm	ASTM D5185(m) >20	17	16	---
Nickel	ppm	ASTM D5185(m) >15	7	4	---
Titanium	ppm	ASTM D5185(m)	<1	0	---
Silver	ppm	ASTM D5185(m) >5	0	0	---
Aluminum	ppm	ASTM D5185(m) >25	12	11	---
Lead	ppm	ASTM D5185(m) >20000	4139	2354	---
Copper	ppm	ASTM D5185(m) >25	9	6	---
Tin	ppm	ASTM D5185(m) >30	<1	0	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	4	3	---

ADDITIVES

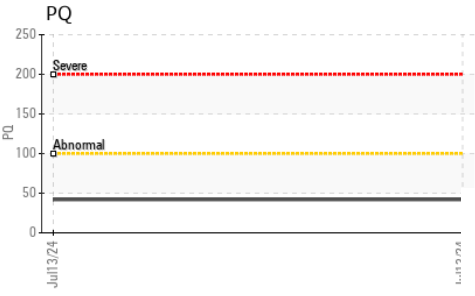
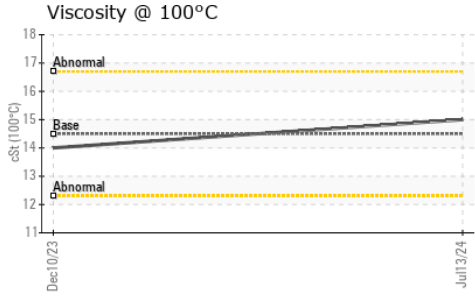
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	0	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)	2	2	---
Manganese	ppm	ASTM D5185(m)	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	<1	<1	---
Calcium	ppm	ASTM D5185(m)	8	10	---
Phosphorus	ppm	ASTM D5185(m)	1094	1099	---
Zinc	ppm	ASTM D5185(m)	7	5	---
Sulfur	ppm	ASTM D5185(m) 3000	2297	2864	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	13	10	---
Sodium	ppm	ASTM D5185(m)	<1	<1	---
Potassium	ppm	ASTM D5185(m) >20	<1	<1	---



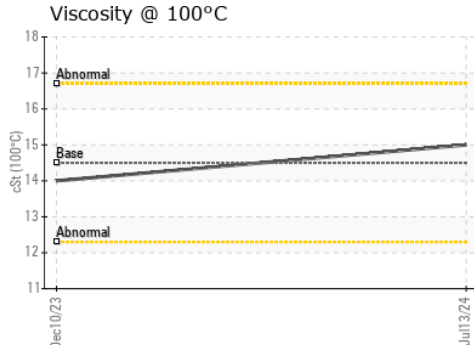
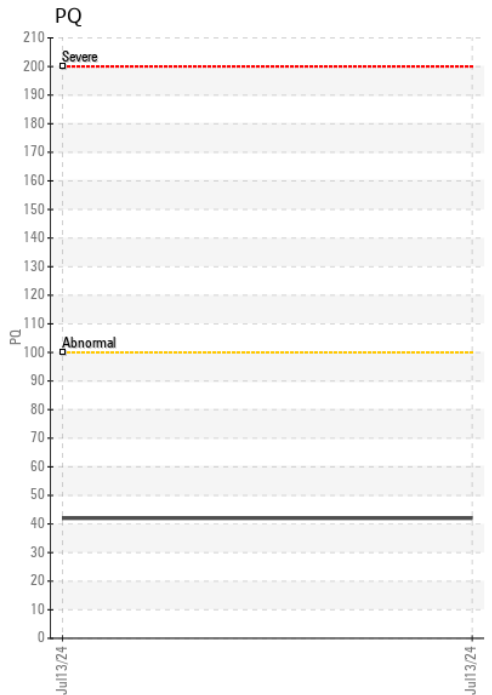
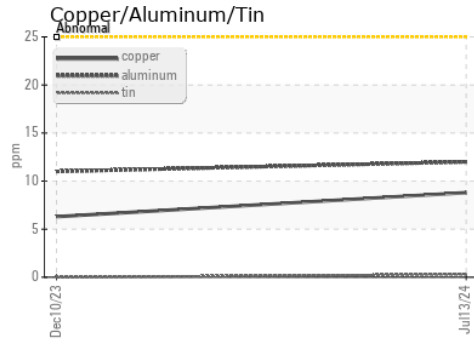
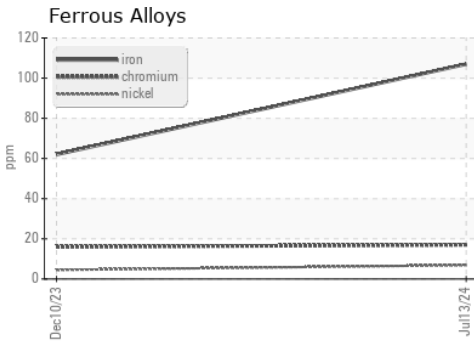
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	HAZY	---
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)	14.5	15.0	14.0	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0965073 **Received** : 15 Jul 2024
Lab Number : **02648000** **Tested** : 16 Jul 2024
Unique Number : 5813552 **Diagnosed** : 16 Jul 2024 - Kevin Marson
Test Package : AVI 1 (Additional Tests: PQ)

Brian Krist
 1822 Delderfield Cresc.
 Mississauga, ON
 CA L5M 3H4
 Contact: Brian Krist
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 T: (905)606-0888
 F:

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.