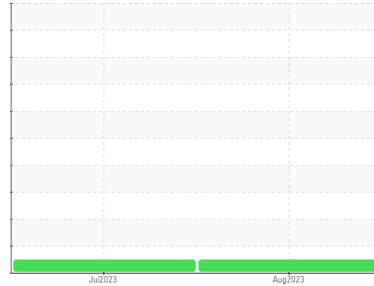




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area

(C-GTQO)

Machine Id

[C-GTQO] DIAMOND DA20C 1033076

Component

Piston Aircraft Engine

Fluid

SHELL AEROSHELL OIL W 100 PLUS (6 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		WC0828149	WC0816790	---
Sample Date	Client Info		17 Aug 2023	20 Jul 2023	---
TSN	hrs	Client Info	0	0	---
TSO	hrs	Client Info	289	244	---
Oil Age	hrs	Client Info	45	47	---
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	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	13	15
Chromium	ppm	ASTM D5185(m)	>20	7	13
Nickel	ppm	ASTM D5185(m)	>15	2	2
Titanium	ppm	ASTM D5185(m)		0	0
Silver	ppm	ASTM D5185(m)	>5	0	0
Aluminum	ppm	ASTM D5185(m)	>25	6	10
Lead	ppm	ASTM D5185(m)	>20000	5146	5035
Copper	ppm	ASTM D5185(m)	>25	9	13
Tin	ppm	ASTM D5185(m)	>30	0	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)		<1	2

ADDITIVES

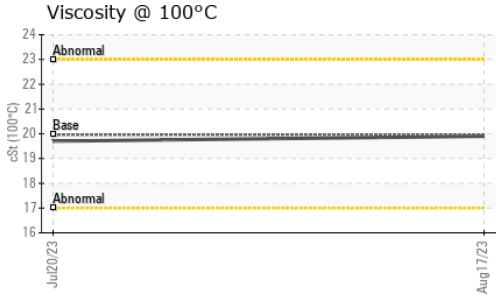
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1
Barium	ppm	ASTM D5185(m)	0	0	0
Molybdenum	ppm	ASTM D5185(m)		4	6
Manganese	ppm	ASTM D5185(m)		0	0
Magnesium	ppm	ASTM D5185(m)	0	<1	<1
Calcium	ppm	ASTM D5185(m)	0	1	2
Phosphorus	ppm	ASTM D5185(m)		1276	1291
Zinc	ppm	ASTM D5185(m)	0	7	8
Sulfur	ppm	ASTM D5185(m)	2600	2668	2759
Lithium	ppm	ASTM D5185(m)		<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	4	4
Sodium	ppm	ASTM D5185(m)		<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1



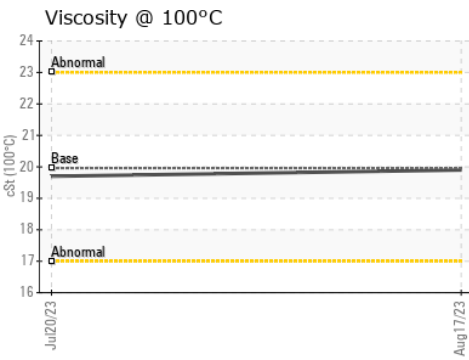
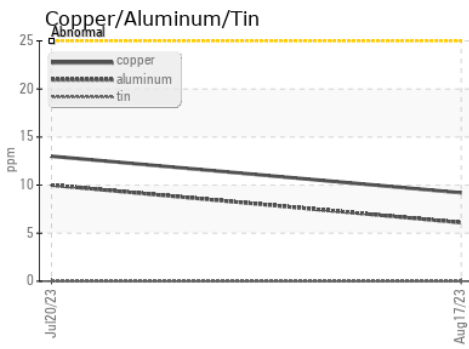
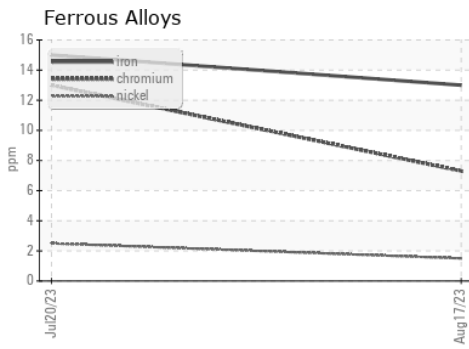
OIL ANALYSIS REPORT



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	NONE	VLITE	---
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)	19.96	19.9	19.7	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0828149 **Received** : 18 Aug 2023
Lab Number : **02576722** **Diagnosed** : 21 Aug 2023
Unique Number : 5629782 **Diagnostician** : Kevin Marson
Test Package : AVI 1

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 T:
 F: (519)972-8355

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.