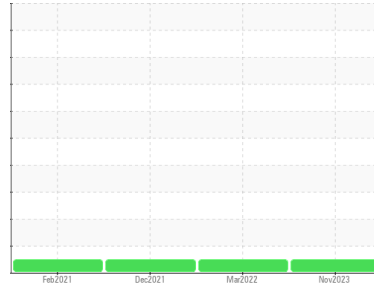




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
(C-GGMV)
 Machine Id
[C-GGMV] DIAMOND DA 20-C1 806240
 Component
Piston Aircraft Engine
 Fluid
SHELL AEROSHELL W 80 (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		WC0869662	WC0671107	WC0636800
Sample Date	Client Info		16 Nov 2023	15 Mar 2022	01 Dec 2021
TSN	hrs	Client Info	0	0	0
TSO	hrs	Client Info	1577	687	639
Oil Age	hrs	Client Info	50	48	49
Oil Changed		Client Info	Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	16	42	16
Chromium	ppm	ASTM D5185(m)	>20	3	4	5
Nickel	ppm	ASTM D5185(m)	>15	1	3	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	4	13	11
Lead	ppm	ASTM D5185(m)	>20000	4151	4750	4477
Copper	ppm	ASTM D5185(m)	>25	3	7	6
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		<1	2	<1

ADDITIVES

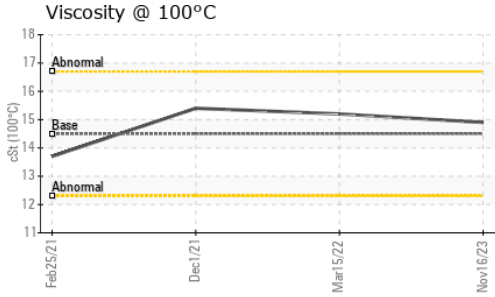
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		1	2	3
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	1	<1
Calcium	ppm	ASTM D5185(m)		3	4	3
Phosphorus	ppm	ASTM D5185(m)		1033	1166	1230
Zinc	ppm	ASTM D5185(m)		5	8	6
Sulfur	ppm	ASTM D5185(m)	3000	2190	1823	1929
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	8	7	7
Sodium	ppm	ASTM D5185(m)		<1	1	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1



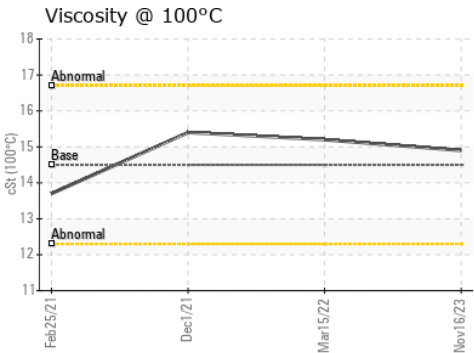
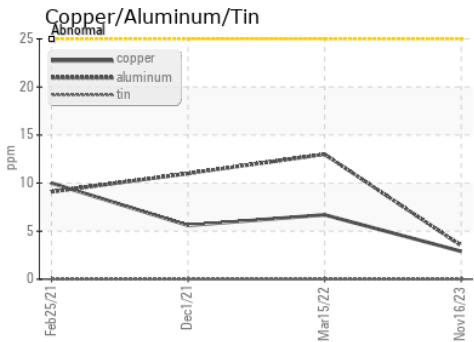
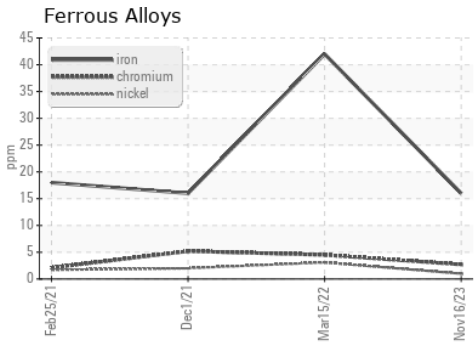
OIL ANALYSIS REPORT



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	VLITE	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)	14.5	14.9	15.2	15.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0869662 **Received** : 05 Dec 2023
Lab Number : **02600953** **Diagnosed** : 06 Dec 2023
Unique Number : 5694038 **Diagnostician** : Kevin Marson
Test Package : AVI 1

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 WINDSOR, ON
 CA N8V 1A1
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 T: (519)972-7271
 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.