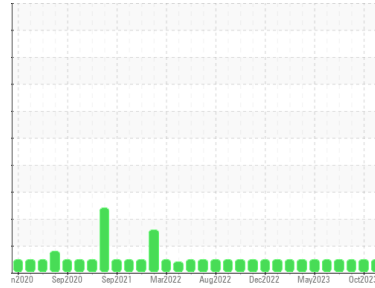




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(C-GDME)
Machine Id
[C-GDME] DIAMOND DA20 806487
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	WC0869660	WC0869655	WC0828151
Sample Date	Client Info	13 Nov 2023	19 Oct 2023	20 Sep 2023
TSN	hrs Client Info	0	0	0
TSO	hrs Client Info	1900	1862	1802
Oil Age	hrs Client Info	38	60	51
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	19	20
Chromium	ppm ASTM D5185(m) >20	3	4	5
Nickel	ppm ASTM D5185(m) >15	1	2	2
Titanium	ppm ASTM D5185(m)	0	0	0
Silver	ppm ASTM D5185(m) >5	<1	0	<1
Aluminum	ppm ASTM D5185(m) >25	5	6	6
Lead	ppm ASTM D5185(m) >20000	5263	6771	6034
Copper	ppm ASTM D5185(m) >25	3	3	4
Tin	ppm ASTM D5185(m) >30	0	0	0
Antimony	ppm ASTM D5185(m)	0	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

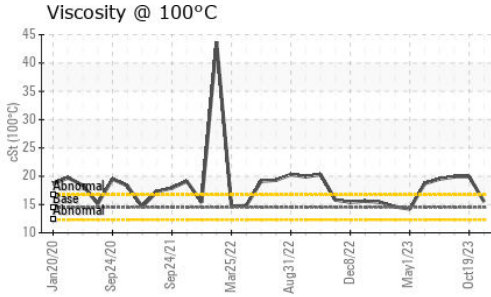
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<1	0	<1
Barium	ppm ASTM D5185(m)	<1	0	0
Molybdenum	ppm ASTM D5185(m)	<1	1	2
Manganese	ppm ASTM D5185(m)	0	0	0
Magnesium	ppm ASTM D5185(m)	0	0	0
Calcium	ppm ASTM D5185(m)	1	1	2
Phosphorus	ppm ASTM D5185(m)	1094	1285	1179
Zinc	ppm ASTM D5185(m)	6	8	7
Sulfur	ppm ASTM D5185(m) 3000	2117	2827	2515
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	8	9	10
Sodium	ppm ASTM D5185(m)	1	1	<1
Potassium	ppm ASTM D5185(m) >20	0	0	0



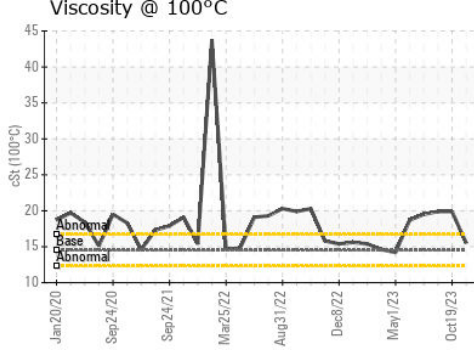
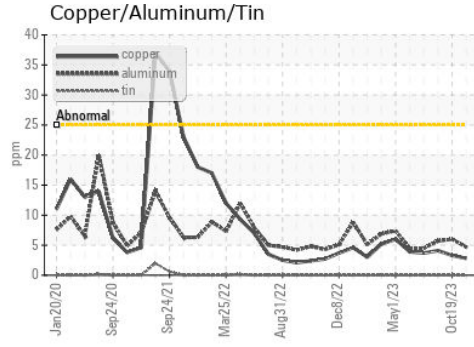
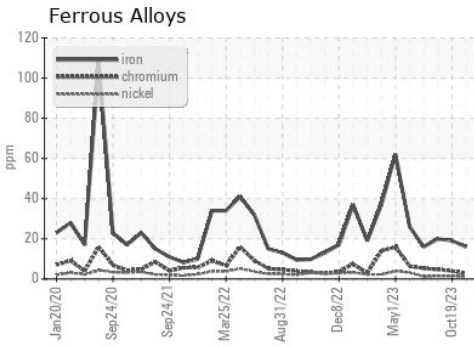
OIL ANALYSIS REPORT



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	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	.2%
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	15.5	19.9	19.9

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0869660
Lab Number : 02600950
Unique Number : 5694035
Test Package : AVI 1

Received : 05 Dec 2023
Diagnosed : 06 Dec 2023
Diagnostician : Kevin Marson

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 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.