



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
[CFGAD] SEABEE AMPHIBIAN 965 CF-GAD
 Component
Rear Piston Aircraft Engine
 Fluid
MOBIL MOBIL1 FORMULA SAE 5W30 (9 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0809663	WC0809662	WC0809661
Sample Date		Client Info		16 Jun 2024	04 Sep 2023	04 Jun 2023
Machine Age	hrs	Client Info		512	485	454
Oil Age	hrs	Client Info		27	31	36
Filter Age	hrs	Client Info		27	31	36
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	21	23	22
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	3	4
Lead	ppm	ASTM D5185(m)	>40	11	5	7
Copper	ppm	ASTM D5185(m)	>300	14	14	14
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

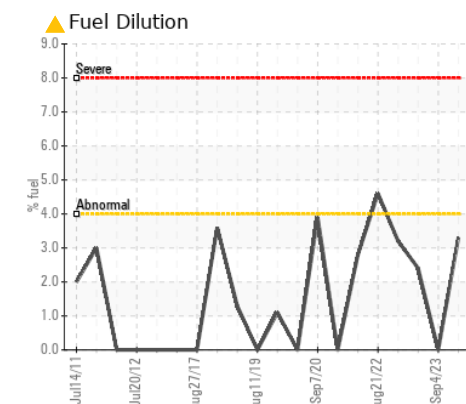
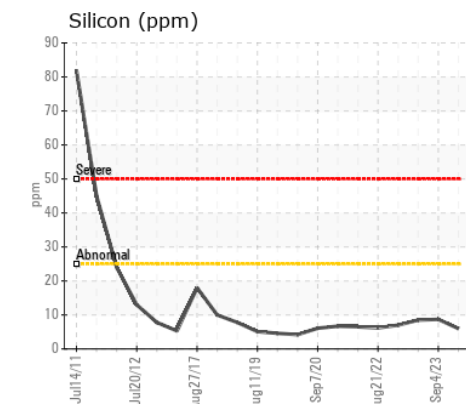
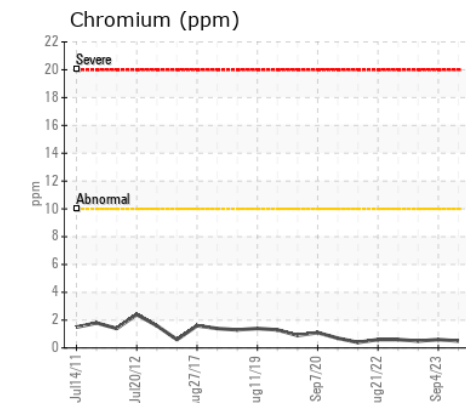
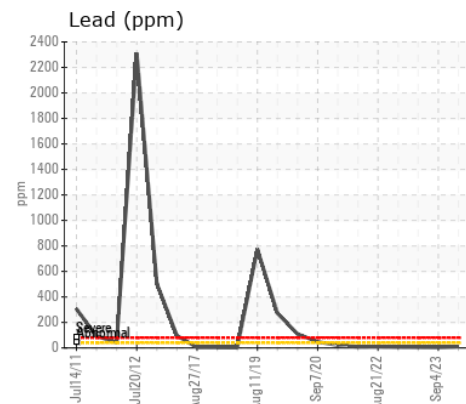
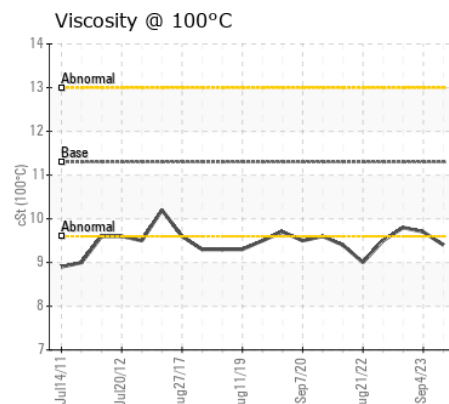
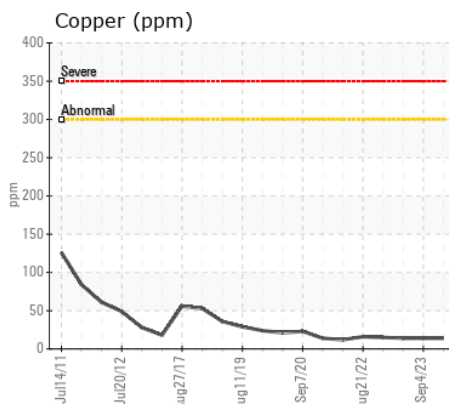
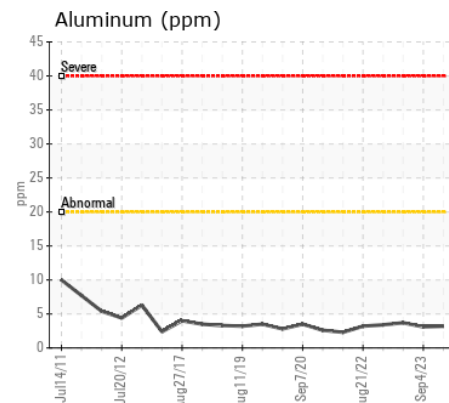
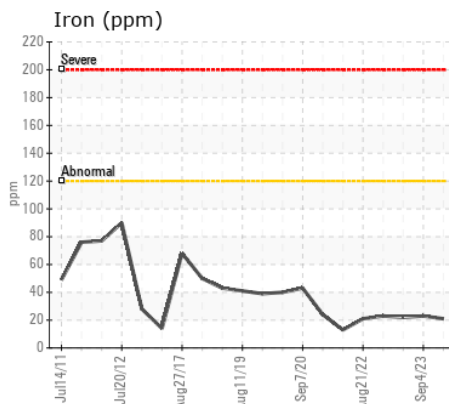
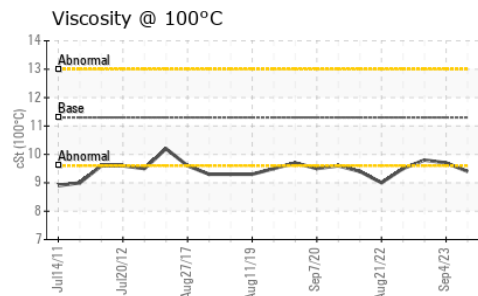
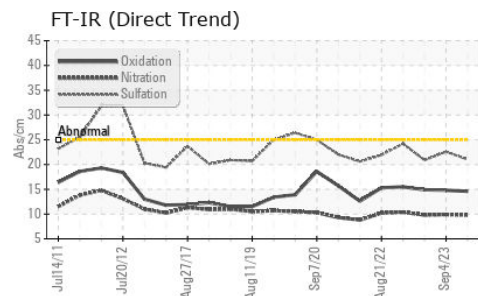
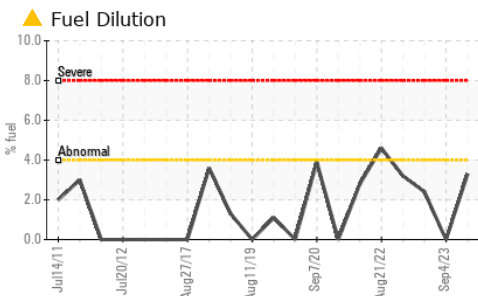
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	9	8
Potassium	ppm	ASTM D5185(m)	>20	1	<1	0
Fuel	%	ASTM D7593*	>4.0	▲ 3.3	<1.0	▲ 2.4
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.8	9.9	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	22.6	20.9
Silt	scalar	Visual*	NONE	NONE	NONE	---
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	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	94	68	64	69
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.0	66	65	71
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1388	626	628	648
Calcium	ppm	ASTM D5185(m)	820	944	926	1034
Phosphorus	ppm	ASTM D5185(m)	720	565	589	630
Zinc	ppm	ASTM D5185(m)	780	683	684	680
Sulfur	ppm	ASTM D5185(m)	2240	1492	1478	1562
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	14.8	14.9
Visc @ 100°C	cSt	ASTM D7279(m)	11.3	9.4	9.7	9.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0809663 **Received** : 28 Jun 2024
Lab Number : 02644733 **Tested** : 02 Jul 2024
Unique Number : 5802272 **Diagnosed** : 02 Jul 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

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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.