



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(CFEQE)

Machine Id

[CFEQE] BEECHCRAFT B-23 L-29944-36A

Component

Piston Aircraft Engine

Fluid

SHELL AEROSHELL W 15W50 MGR (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0921427	WC0820311	WC0685304
Sample Date		Client Info		21 May 2024	14 Jun 2023	06 Jun 2022
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		641	623	619
Oil Age	hrs	Client Info		18	4	19
Filter Age	hrs	Client Info		18	4	19
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	64	32	56
Chromium	ppm	ASTM D5185(m)	>20	9	6	8
Nickel	ppm	ASTM D5185(m)	>15	6	3	5
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	14	8	13
Lead	ppm	ASTM D5185(m)	>20000	2328	1094	2539
Copper	ppm	ASTM D5185(m)	>25	8	5	10
Tin	ppm	ASTM D5185(m)	>30	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

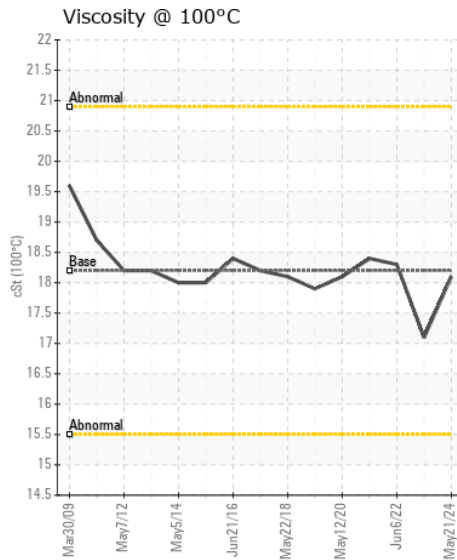
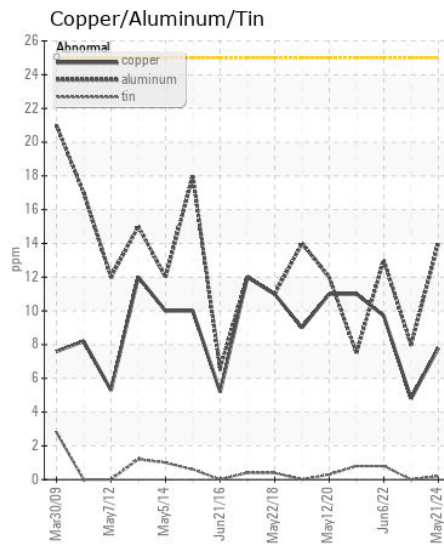
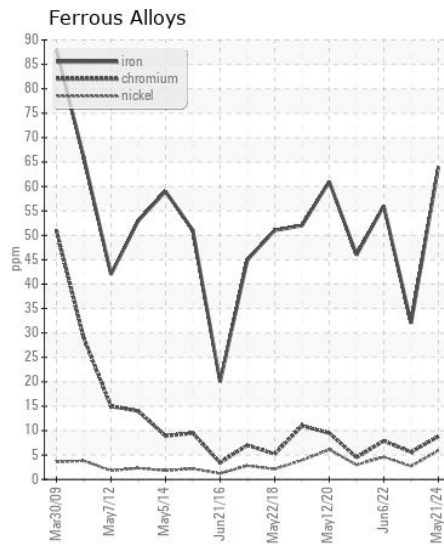
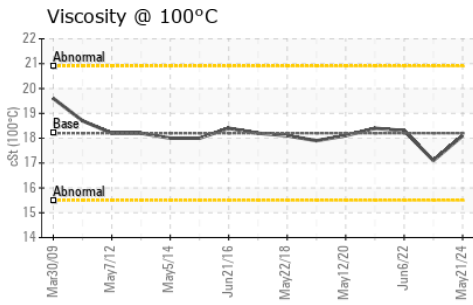
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	4	6	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
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
Silt	scalar	Visual*	NONE	VLITE	VLITE	LIGHT
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	.2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	5	0	<1	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	10	1	2	<1
Calcium	ppm	ASTM D5185(m)	10	2	3	2
Phosphorus	ppm	ASTM D5185(m)	1280	1098	1247	981
Zinc	ppm	ASTM D5185(m)	10	9	7	8
Sulfur	ppm	ASTM D5185(m)	1800	1807	1055	1825
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	18.1	17.1	18.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0921427
Lab Number : 02637944
Unique Number : 5787106
Test Package : AVI 1
Received : 28 May 2024
Tested : 28 May 2024
Diagnosed : 29 May 2024 - Kevin Marson

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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.