



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(CFKCX)
Machine Id
[CFKCX] BEECHCRAFT BARON 58 913259
Component
Right Piston Aircraft Engine
Fluid
PHILLIPS 66 AVIATION X/C OIL SAE20W50 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0648097	WC0525772	WC0368019
Sample Date		Client Info		01 Mar 2022	26 Nov 2020	08 Aug 2019
TSN	hrs	Client Info		3256	0	0
TSO	hrs	Client Info		0	1576	1535
Oil Age	hrs	Client Info		34	46	18
Filter Age	hrs	Client Info		34	46	18
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		27	24	---
Iron	ppm	ASTM D5185(m)	>90	110	101	57
Chromium	ppm	ASTM D5185(m)	>20	10	12	6
Nickel	ppm	ASTM D5185(m)	>15	18	19	7
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	15	16	12
Lead	ppm	ASTM D5185(m)	>20000	5573	6507	3249
Copper	ppm	ASTM D5185(m)	>25	5	4	3
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

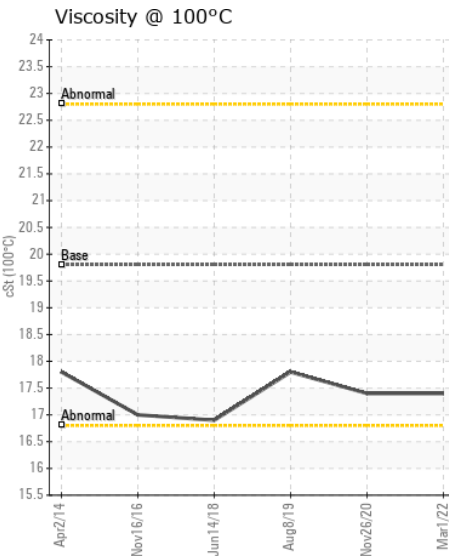
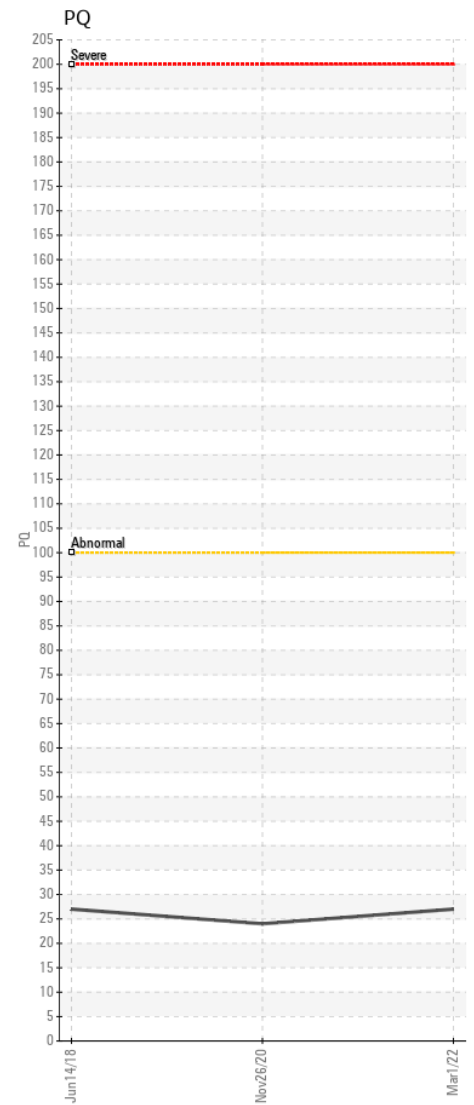
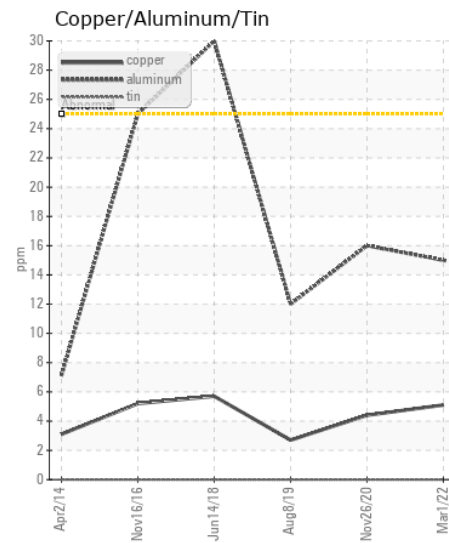
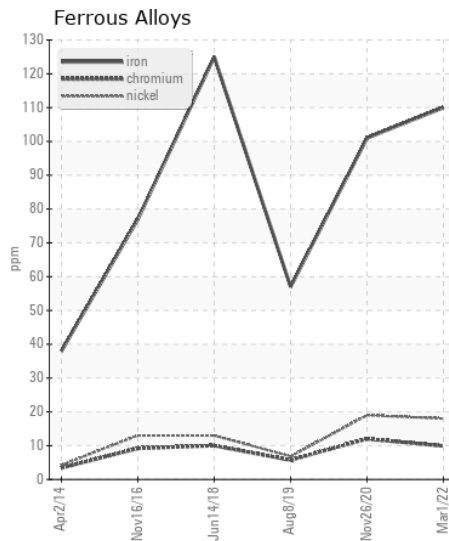
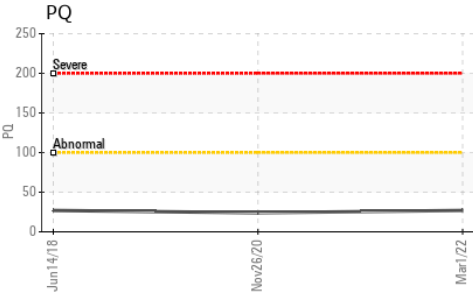
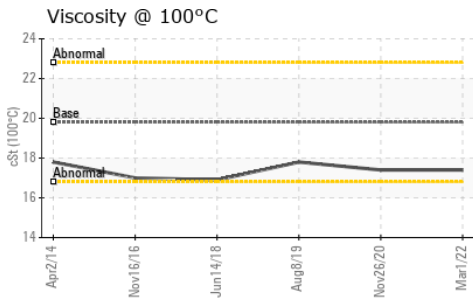
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	11	13	13
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
Fuel		WC Method	>4.0	<1.0	0.6	0.6
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	LIGHT	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	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	0
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		6	7	4
Manganese	ppm	ASTM D5185(m)		1	<1	0
Magnesium	ppm	ASTM D5185(m)		1	1	<1
Calcium	ppm	ASTM D5185(m)		4	3	5
Phosphorus	ppm	ASTM D5185(m)		404	476	357
Zinc	ppm	ASTM D5185(m)		6	5	4
Sulfur	ppm	ASTM D5185(m)		1873	2056	1695
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	17.4	17.4	▲ 17.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0648097
Lab Number : 02475309
Unique Number : 5360232
Test Package : AVI 1 (Additional Tests: PQ)
Received : 03 Mar 2022
Tested : 03 Mar 2022
Diagnosed : 03 Mar 2022 - 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.