



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(CFKCX)
Machine Id
[CFKCX] BEECHCRAFT B58 913258
Component
Left 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		WC0820313	WC0648096	WC0525773
Sample Date		Client Info		22 Jun 2023	01 Mar 2022	26 Nov 2020
TSN	hrs	Client Info		0	3256	0
TSO	hrs	Client Info		0	0	1576
Oil Age	hrs	Client Info		19	34	46
Filter Age	hrs	Client Info		19	34	46
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		18	19	32
Iron	ppm	ASTM D5185(m)	>90	130	109	118
Chromium	ppm	ASTM D5185(m)	>20	8	9	10
Nickel	ppm	ASTM D5185(m)	>15	9	14	13
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>5	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	29	25	20
Lead	ppm	ASTM D5185(m)	>20000	4087	6365	6399
Copper	ppm	ASTM D5185(m)	>25	4	5	4
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

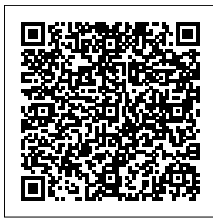
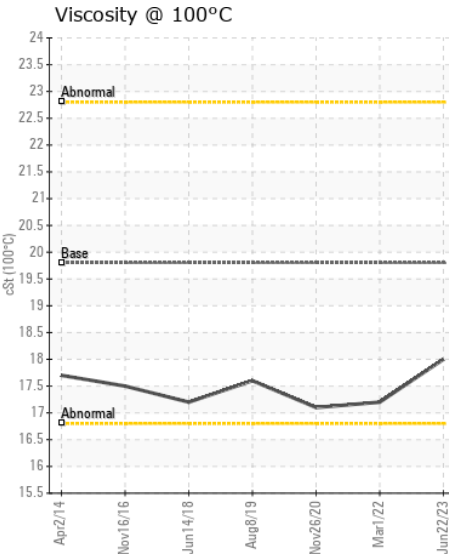
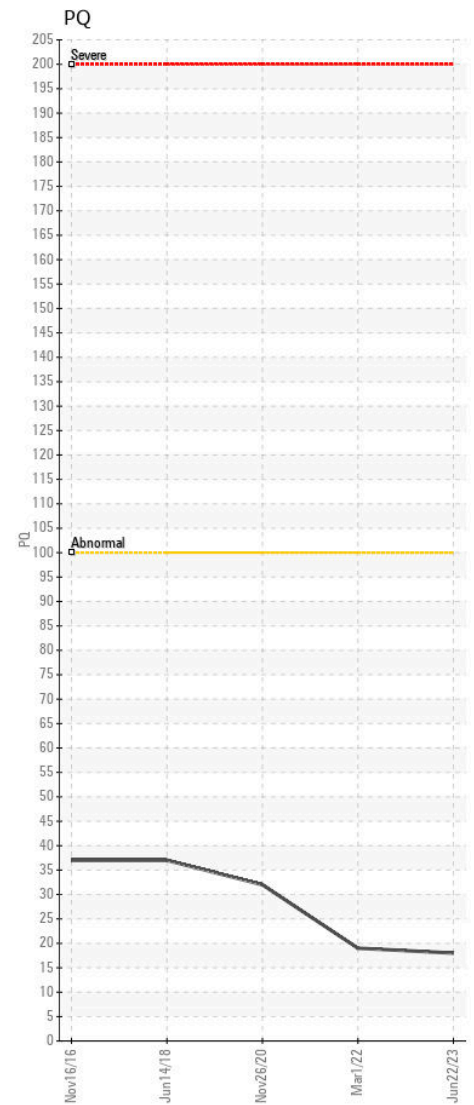
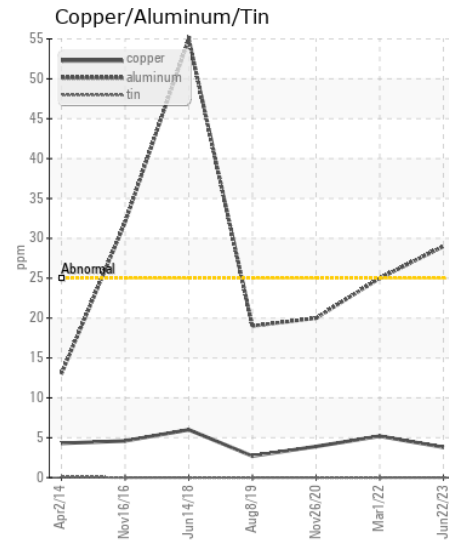
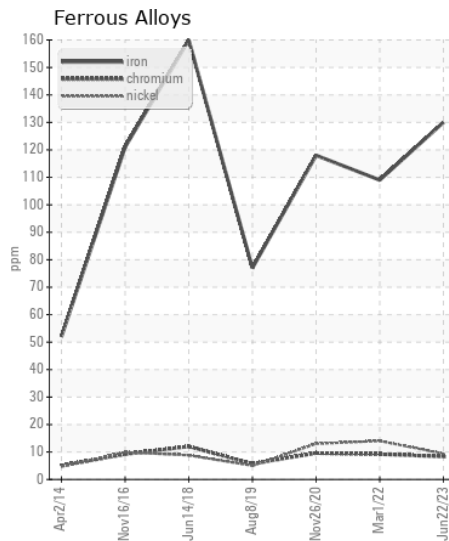
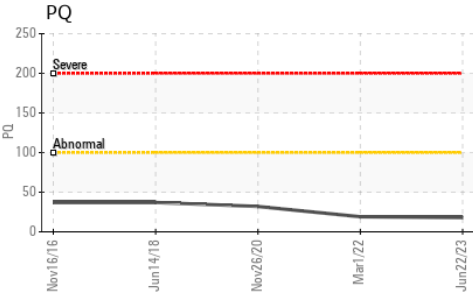
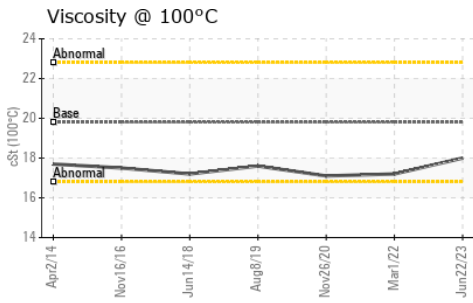
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	9	12	11
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<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	VLITE	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	<1
Boron	ppm	ASTM D5185(m)		0	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		5	5	5
Manganese	ppm	ASTM D5185(m)		<1	1	<1
Magnesium	ppm	ASTM D5185(m)		<1	<1	2
Calcium	ppm	ASTM D5185(m)		2	6	2
Phosphorus	ppm	ASTM D5185(m)		60	263	378
Zinc	ppm	ASTM D5185(m)		7	17	4
Sulfur	ppm	ASTM D5185(m)		1075	1637	2031
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	18.0	17.2	17.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0820313
Lab Number : 02566604
Unique Number : 5603650
Test Package : AVI 1 (Additional Tests: PQ)
Received : 27 Jun 2023
Tested : 27 Jun 2023
Diagnosed : 27 Jun 2023 - Kevin Marson

CORPORATE AIRCRAFT RESTORATIONS
 481 AVIATOR LANE
 OSHAWA, ON
 CA L1J 0B8
 Contact: Maurice Nesbitt
 hangar@bellnet.ca
 T: (905)434-5173
 F: (905)983-9599

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.