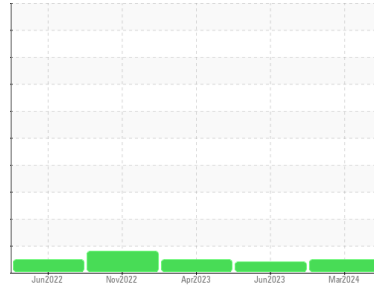




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(C-FYWQ)
Machine Id
[C-FYWQ] BEEHCRAFT B-60 L1049-59
Component
Left Piston Aircraft Engine
Fluid
SHELL AEROSHELL W 80 (13 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		WC0915127	WC0766747	WC0766744
Sample Date	Client Info		08 Mar 2024	12 Jun 2023	14 Apr 2023
TSN	hrs	Client Info	1325	1243	2522
TSO	hrs	Client Info	1325	1243	1330
Oil Age	hrs	Client Info	28	50	50
Oil Changed		Client Info	Changed	Changed	N/A
Sample Status			NORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	0.9	<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	21	19	27
Chromium	ppm	ASTM D5185(m)	>20	4	4	5
Nickel	ppm	ASTM D5185(m)	>15	1	4	5
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	11	13	24
Lead	ppm	ASTM D5185(m)	>20000	4195	5589	5414
Copper	ppm	ASTM D5185(m)	>25	5	7	9
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		<1	<1	2

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		0	0	<1
Barium	ppm	ASTM D5185(m)		3	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		4	3	6
Calcium	ppm	ASTM D5185(m)		4	4	10
Phosphorus	ppm	ASTM D5185(m)		24	865	1218
Zinc	ppm	ASTM D5185(m)		3	4	4
Sulfur	ppm	ASTM D5185(m)	3000	2145	2254	1719
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

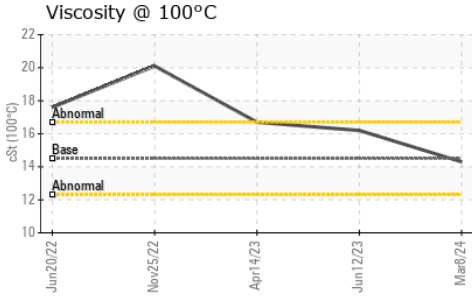
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	5	5	6
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	4.3	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	16.4	---	---



OIL ANALYSIS REPORT

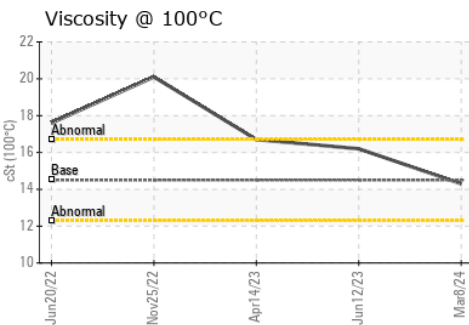
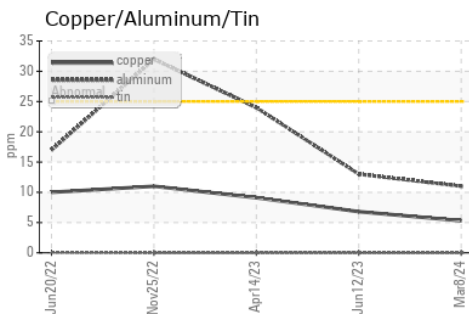
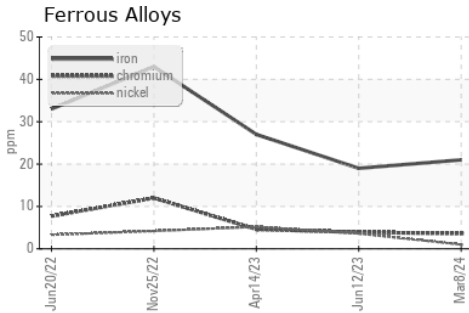


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	11.9	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	MODER	VLITE
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
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	14.3	▲ 16.2	16.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0915127 **Received** : 12 Mar 2024
Lab Number : **02621418** **Tested** : 12 Mar 2024
Unique Number : 5746537 **Diagnosed** : 13 Mar 2024 - Kevin Marson
Test Package : AVI 1 (Additional Tests: FT-IR)

ITPS Canada
 2465 Aviation Lane., Unit 1
 London, ON
 CA N5V 3Z9
 Contact: Shannon Hickey
 shannon.hickey@itpscanada.com

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.

T:
F: