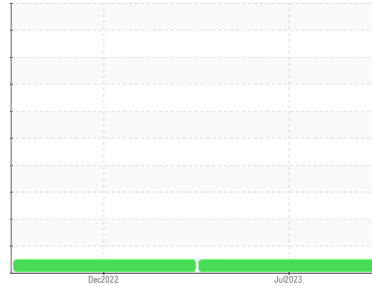




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id

## Beechcraft 815294-R

Component

### Right Piston Aircraft Engine

Fluid

#### PHILLIPS 66 AVIATION X/C OIL SAE20W50 (12 QTS)

#### 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		<b>WC0840674</b>	WC0774684	---
Sample Date	Client Info		<b>24 Jul 2023</b>	14 Dec 2022	---
TSN	hrs	Client Info	<b>1791</b>	1765	---
TSO	hrs	Client Info	<b>0</b>	1765	---
Oil Age	hrs	Client Info	<b>26</b>	30	---
Oil Changed		Client Info	<b>Changed</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

#### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method		<b>NEG</b>	NEG	---

#### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	<b>23</b>	26
Chromium	ppm	ASTM D5185(m)	>20	<b>3</b>	4
Nickel	ppm	ASTM D5185(m)	>15	<b>4</b>	3
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	3
Lead	ppm	ASTM D5185(m)	>20000	<b>2462</b>	2503
Copper	ppm	ASTM D5185(m)	>25	<b>4</b>	4
Tin	ppm	ASTM D5185(m)	>30	<b>0</b>	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)		<b>1</b>	1

#### ADDITIVES

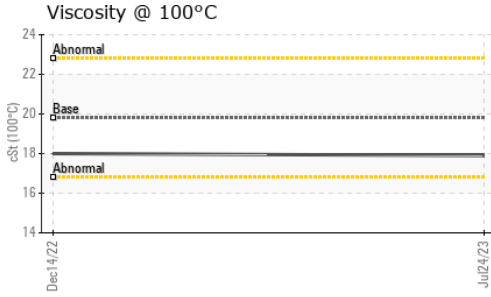
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0
Molybdenum	ppm	ASTM D5185(m)		<b>2</b>	2
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0
Calcium	ppm	ASTM D5185(m)		<b>130</b>	93
Phosphorus	ppm	ASTM D5185(m)		<b>203</b>	68
Zinc	ppm	ASTM D5185(m)		<b>6</b>	5
Sulfur	ppm	ASTM D5185(m)		<b>2114</b>	1573
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

#### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<b>4</b>	4
Sodium	ppm	ASTM D5185(m)		<b>1</b>	1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1



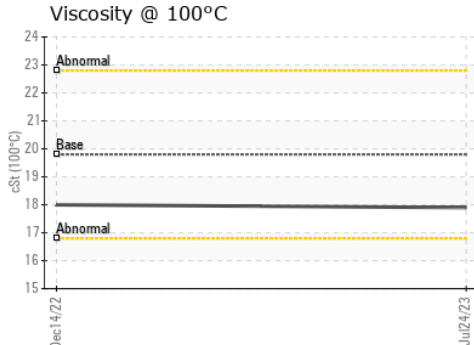
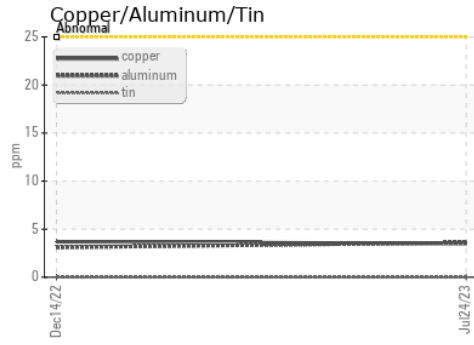
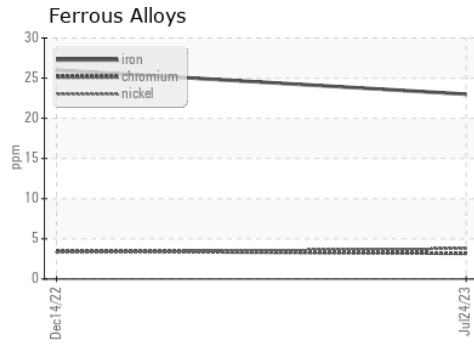
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	LIGHT	VLITE
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	17.9	18.0

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0840674      **Received** : 18 Aug 2023  
**Lab Number** : **02576724**      **Diagnosed** : 21 Aug 2023  
**Unique Number** : 5629784      **Diagnostician** : Kevin Marson  
**Test Package** : AVI 1

**OLIVER UHRIG**  
 94 FOREST HILL DR  
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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.