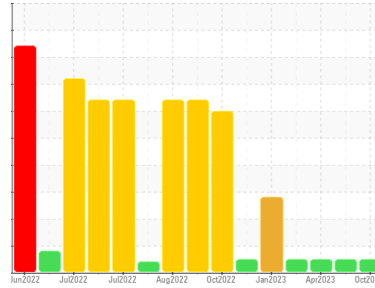




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(C-GJHX)**  
Machine Id  
**[C-GJHX] PIPER PA31-350 L-1340-68A**  
Component  
**Right Piston Aircraft Engine**  
Fluid  
**PHILLIPS 66 AVIATION X/C OIL SAE20W50 (12 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.

### Wear

All component wear rates are normal.

### Contamination

The water content is negligible. 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>WC0826684</b>	WC0754576	WC0754522
Sample Date	Client Info		<b>15 Oct 2023</b>	11 Jul 2023	25 Apr 2023
TSN	hrs	Client Info	<b>0</b>	0	0
TSO	hrs	Client Info	<b>1110</b>	914	720
Oil Age	hrs	Client Info	<b>44</b>	36	49
Oil Changed		Client Info	<b>Not Chngd</b>	N/A	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>80	<b>29</b>	31	25
Chromium	ppm	ASTM D5185(m)	>20	<b>5</b>	10	4
Nickel	ppm	ASTM D5185(m)	>50	<b>14</b>	29	28
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>6</b>	10	5
Lead	ppm	ASTM D5185(m)	>20000	<b>6875</b>	7292	7826
Copper	ppm	ASTM D5185(m)	>25	<b>6</b>	8	6
Tin	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1

## ADDITIVES

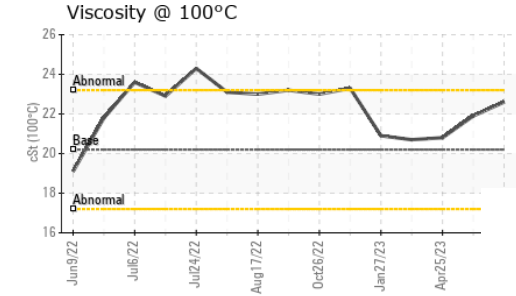
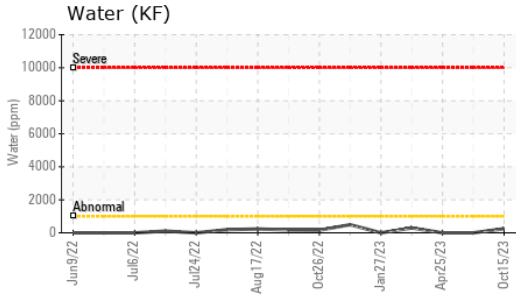
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>2</b>	3	2
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0.0	<b>2</b>	4	5
Calcium	ppm	ASTM D5185(m)	4.7	<b>&lt;1</b>	4	0
Phosphorus	ppm	ASTM D5185(m)	0.0	<b>0</b>	2	0
Zinc	ppm	ASTM D5185(m)	0.1	<b>2</b>	5	3
Sulfur	ppm	ASTM D5185(m)	848	<b>987</b>	961	1034
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	<b>5</b>	6	9
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	0
Water	%	ASTM D6304*	>0.1	<b>0.024</b>	---	---
ppm Water	ppm	ASTM D6304*	>1000	<b>249.7</b>	---	---



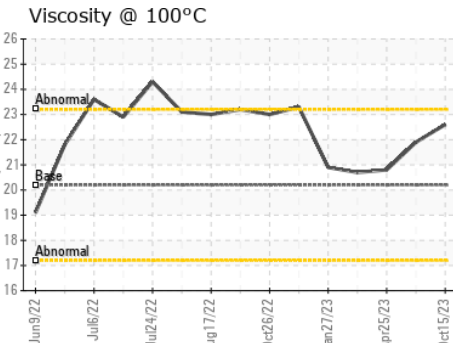
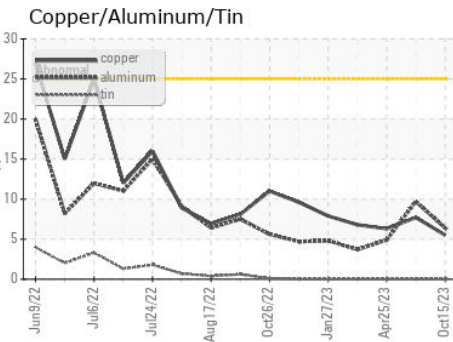
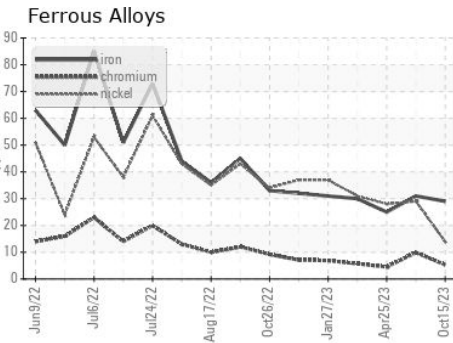
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	20.2	22.6	21.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0826684 **Received** : 16 Oct 2023  
**Lab Number** : 02589284 **Diagnosed** : 07 Nov 2023  
**Unique Number** : 5658350 **Diagnostician** : Kevin Marson  
**Test Package** : AVI 1 ( Additional Tests: Bottom, KF )

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.

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