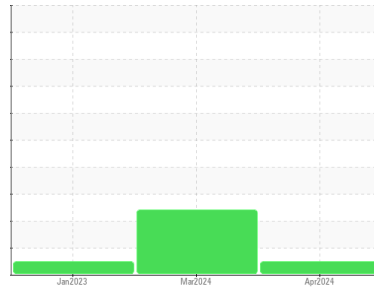




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

**(C-FAJR)**

Machine Id

**[C-FAJR] PIPER PA31-350 L-5571-61A**

Component

**Left Piston Aircraft Engine**

Fluid

**PHILLIPS 66 AVIATION X/C OIL SAE20W50 (--- GAL)**

### 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>WC0896316</b>	WC0886710	WC0754564
Sample Date	Client Info		<b>10 Apr 2024</b>	20 Mar 2024	31 Jan 2023
TSN	hrs	Client Info	<b>0</b>	0	0
TSO	hrs	Client Info	<b>290</b>	240	219
Oil Age	hrs	Client Info	<b>24</b>	21	8
Oil Changed		Client Info	<b>N/A</b>	Not Changd	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	<b>35</b>	31	75
Chromium	ppm	ASTM D5185(m)	>20	<b>17</b>	▲ 21	17
Nickel	ppm	ASTM D5185(m)	>15	<b>7</b>	4	5
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>5</b>	7	22
Lead	ppm	ASTM D5185(m)	>20000	<b>4127</b>	2481	3460
Copper	ppm	ASTM D5185(m)	>25	<b>10</b>	13	10
Tin	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	1	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>1</b>	<1	3

### ADDITIVES

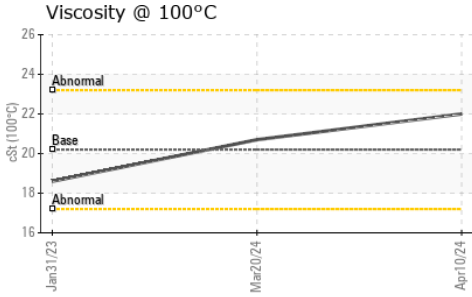
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	<1
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>0</b>	1	0
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	0.0	<b>4</b>	3	11
Calcium	ppm	ASTM D5185(m)	4.7	<b>1</b>	5	7
Phosphorus	ppm	ASTM D5185(m)	0.0	<b>1</b>	2	0
Zinc	ppm	ASTM D5185(m)	0.1	<b>4</b>	5	6
Sulfur	ppm	ASTM D5185(m)	848	<b>962</b>	942	898
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>12</b>	▲ 24	9
Sodium	ppm	ASTM D5185(m)		<b>3</b>	6	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1



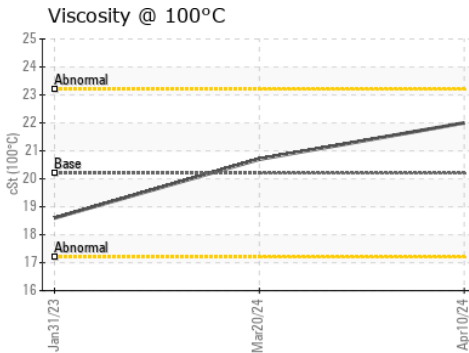
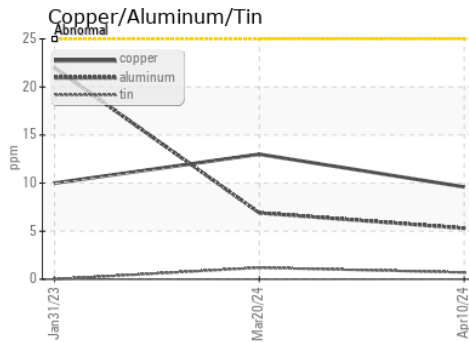
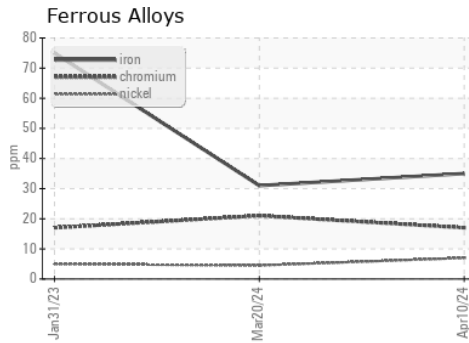
# OIL ANALYSIS REPORT



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	VLITE	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	<b>22.0</b>	20.7	18.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0896316 **Received** : 17 Apr 2024  
**Lab Number** : **02629591** **Tested** : 18 Apr 2024  
**Unique Number** : 5762723 **Diagnosed** : 18 Apr 2024 - Kevin Marson  
**Test Package** : AVI 1

**SKYCARE AIR AMBULANCE**  
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 Contact: Jason Murphy  
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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.