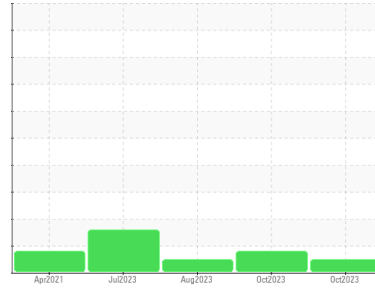




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(C-GJHX)**  
Machine Id  
**[C-GJHX] PIPER PA31-350 L-7759-61A**  
Component  
**Left Piston Aircraft Engine**  
Fluid  
**PHILLIPS 66 AVIATION X/C OIL SAE20W50 (12 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		<b>WC0826699</b>	WC0826700	WC0830818
Sample Date	Client Info		<b>22 Oct 2023</b>	15 Oct 2023	18 Aug 2023
TSN	hrs	Client Info	<b>0</b>	0	0
TSO	hrs	Client Info	<b>669</b>	649	544
Oil Age	hrs	Client Info	<b>19</b>	62	48
Oil Changed		Client Info	<b>Changed</b>	Changed	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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	<b>20</b>	44	33
Chromium	ppm	ASTM D5185(m)	>20	<b>5</b>	13	10
Nickel	ppm	ASTM D5185(m)	>15	<b>6</b>	▲ 15	9
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>3</b>	8	6
Lead	ppm	ASTM D5185(m)	>20000	<b>4190</b>	9479	6881
Copper	ppm	ASTM D5185(m)	>25	<b>5</b>	11	8
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>&lt;1</b>	2	2

## ADDITIVES

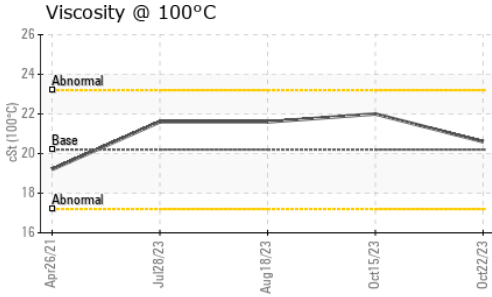
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0.0	<b>3</b>	4	4
Calcium	ppm	ASTM D5185(m)	4.7	<b>2</b>	3	6
Phosphorus	ppm	ASTM D5185(m)	0.0	<b>12</b>	2	2
Zinc	ppm	ASTM D5185(m)	0.1	<b>3</b>	4	6
Sulfur	ppm	ASTM D5185(m)	848	<b>1006</b>	1040	1002
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>3</b>	4	4
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1



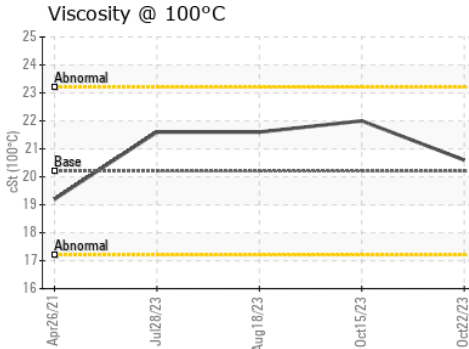
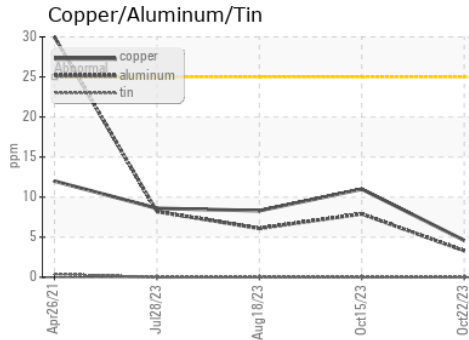
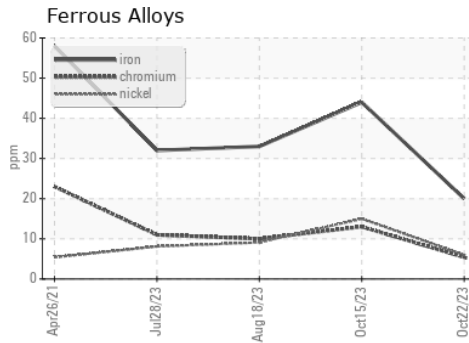
# OIL ANALYSIS REPORT



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	NONE	NONE
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	<b>20.6</b>	22.0	21.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0826699  
**Lab Number** : **02591891**  
**Unique Number** : 5668970  
**Test Package** : AVI 1

**Received** : 25 Oct 2023  
**Diagnosed** : 26 Oct 2023  
**Diagnostician** : Kevin Marson

**SKYCARE AIR AMBULANCE**  
 BOX 289, 17 AIRPORT ROAD  
 SIOUX LOOKOUT, ON  
 CA P8T 1A3  
 Contact: Jason Murphy  
 prm@skycare.ca  
 T: (807)737-0039  
 F: (807)737-0040

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.