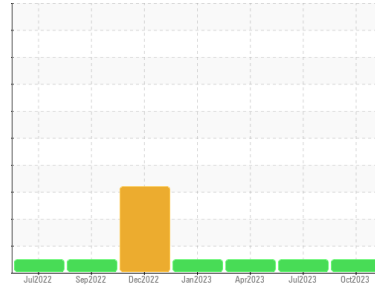




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(C-GTJF)
Machine Id
[C-GTJF] PIPER PA31-350 RL-1372-68A
Component
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

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		WC0826685	WC0754575	WC0754530
Sample Date	Client Info		14 Oct 2023	20 Jul 2023	07 Apr 2023
TSN	hrs	Client Info	0	0	0
TSO	hrs	Client Info	3087	2910	2710
Oil Age	hrs	Client Info	51	59	57
Oil Changed		Client Info	Changed	Changed	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	22	40	31
Chromium	ppm	ASTM D5185(m)	>20	5	11	8
Nickel	ppm	ASTM D5185(m)	>15	5	9	6
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>5	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	4	12	6
Lead	ppm	ASTM D5185(m)	>20000	4906	8191	6837
Copper	ppm	ASTM D5185(m)	>25	4	7	6
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		<1	3	2

ADDITIVES

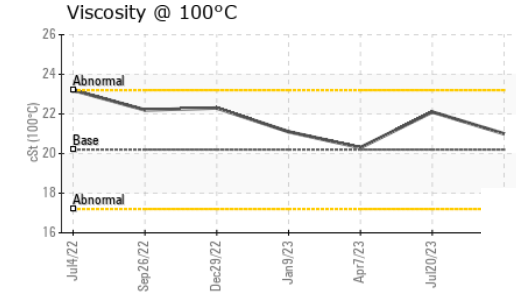
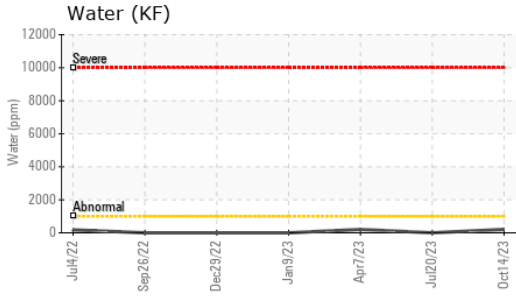
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0.0	<1	<1	0
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.0	0	0	0
Manganese	ppm	ASTM D5185(m)	0.0	0	0	0
Magnesium	ppm	ASTM D5185(m)	0.0	<1	3	4
Calcium	ppm	ASTM D5185(m)	4.7	<1	3	0
Phosphorus	ppm	ASTM D5185(m)	0.0	<1	4	2
Zinc	ppm	ASTM D5185(m)	0.1	2	5	3
Sulfur	ppm	ASTM D5185(m)	848	1004	1073	1063
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	4	5	3
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	1	0
Water	%	ASTM D6304*	>0.1	0.020	---	0.020
ppm Water	ppm	ASTM D6304*	>1000	205.7	---	206.7



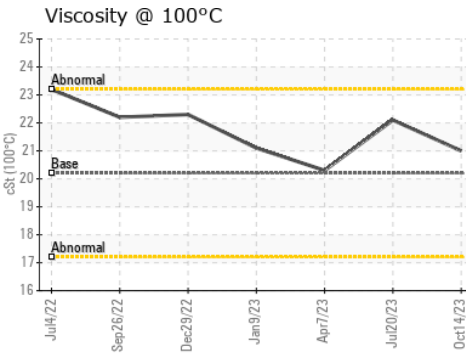
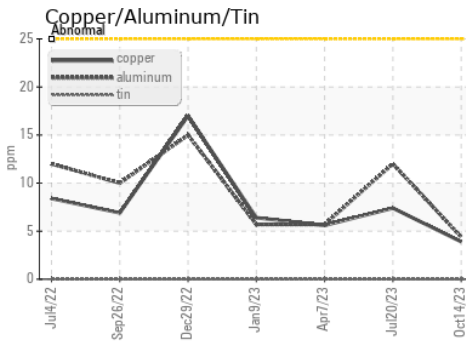
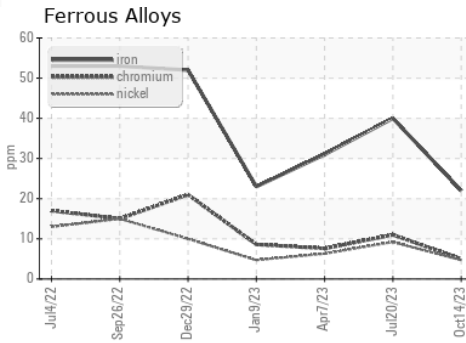
OIL ANALYSIS REPORT



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	VLITE
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	.2%	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	20.2	21.0	22.1

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0826685 **Received** : 20 Oct 2023
Lab Number : **02590616** **Diagnosed** : 20 Oct 2023
Unique Number : 5659682 **Diagnostician** : Kevin Marson
Test Package : AVI 1 (Additional Tests: 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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