



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	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)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0886715	WC0838454	WC0838456
Sample Date		Client Info		29 Dec 2023	12 Dec 2023	22 Nov 2023
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		1301	1261	1230
Oil Age	hrs	Client Info		19	31	50
Filter Age	hrs	Client Info		19	31	50
Oil Changed		Client Info		Not Changed	N/A	Changed
Filter Changed		Client Info		Not Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	32	46	28
Chromium	ppm	ASTM D5185(m)	>20	16	▲ 29	5
Nickel	ppm	ASTM D5185(m)	>50	6	6	16
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	7	12	4
Lead	ppm	ASTM D5185(m)	>20000	3642	3645	8210
Copper	ppm	ASTM D5185(m)	>25	13	▲ 26	6
Tin	ppm	ASTM D5185(m)	>30	1	2	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

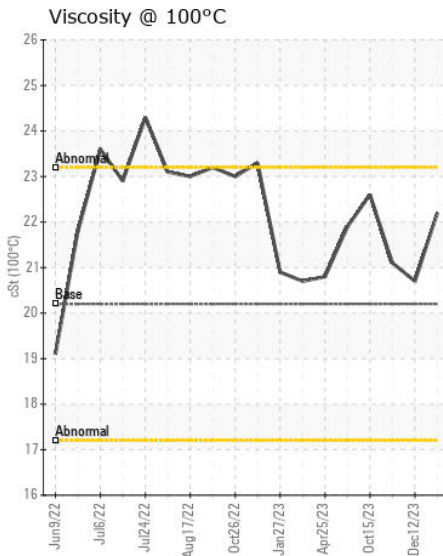
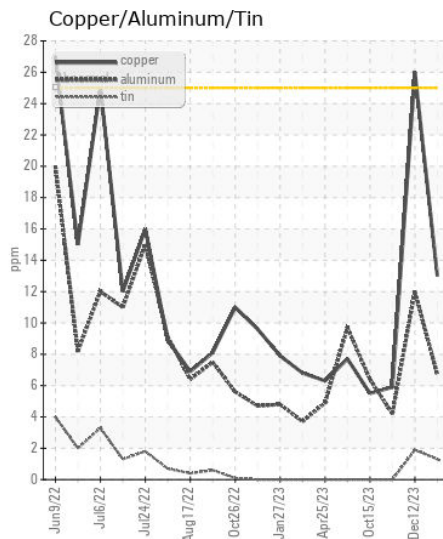
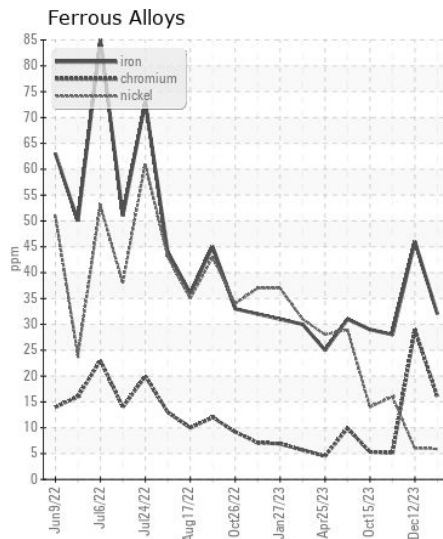
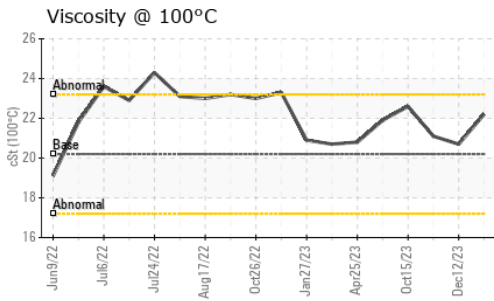
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	13	▲ 15	3
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	NONE	LIGHT
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	.2%

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		7	13	<1
Boron	ppm	ASTM D5185(m)	0.0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.0	<1	1	1
Manganese	ppm	ASTM D5185(m)	0.0	0	<1	0
Magnesium	ppm	ASTM D5185(m)	0.0	4	4	2
Calcium	ppm	ASTM D5185(m)	4.7	4	5	<1
Phosphorus	ppm	ASTM D5185(m)	0.0	<1	3	0
Zinc	ppm	ASTM D5185(m)	0.1	4	5	2
Sulfur	ppm	ASTM D5185(m)	848	1036	971	983
Visc @ 100°C	cSt	ASTM D7279(m)	20.2	22.2	20.7	21.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0886715
Lab Number : 02607007
Unique Number : 5708093
Test Package : AVI 1

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.