



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(C-GTJF)

Machine Id

[C-GTJF] PIPER PA31-350 L-6290-61A

Component

Left 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		WC0886708	WC0886703	WC0838464
Sample Date		Client Info		26 Apr 2024	05 Feb 2024	15 Jan 2024
TSN	hrs	Client Info		0	7186	0
TSO	hrs	Client Info		966	792	774
Oil Age	hrs	Client Info		48	17	36
Filter Age	hrs	Client Info		48	17	36
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	29	14	22
Chromium	ppm	ASTM D5185(m)	>20	9	4	6
Nickel	ppm	ASTM D5185(m)	>15	7	3	4
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	5	4	6
Lead	ppm	ASTM D5185(m)	>20000	7545	2793	4782
Copper	ppm	ASTM D5185(m)	>25	8	5	7
Tin	ppm	ASTM D5185(m)	>30	0	0	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

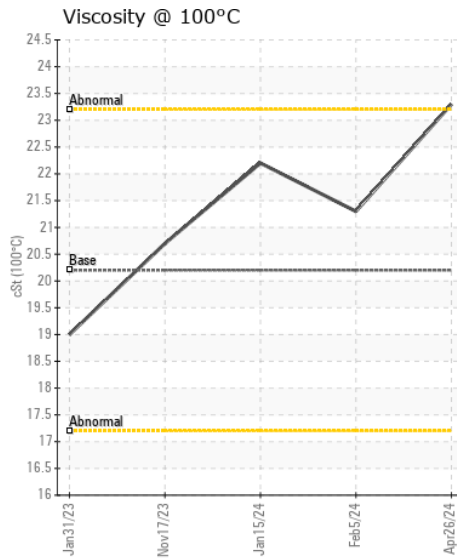
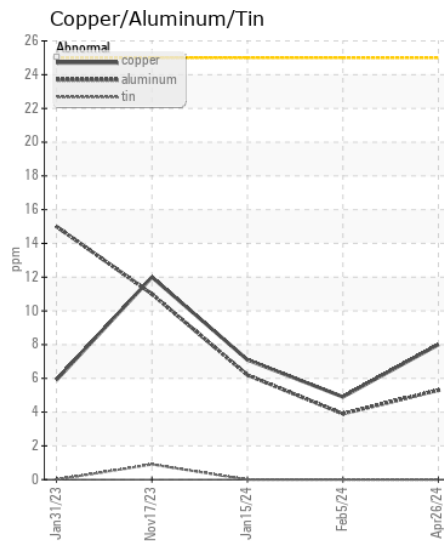
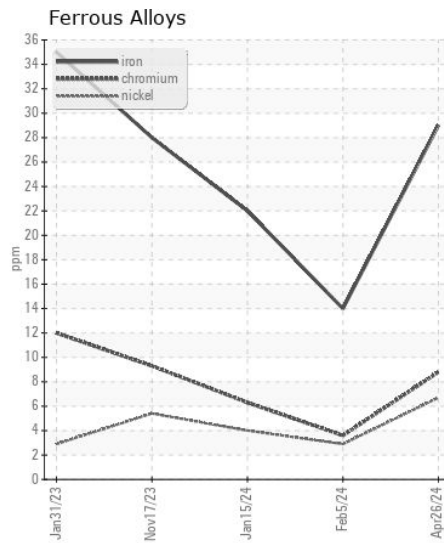
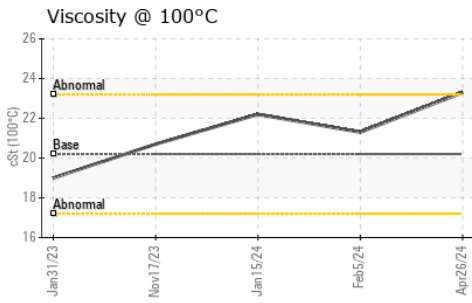
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	4	8	9
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
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	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	▲ WGOIL
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	.5%

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 60 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		0	<1	<1
Boron	ppm	ASTM D5185(m)	0.0	0	0	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	4	2	4
Calcium	ppm	ASTM D5185(m)	4.7	4	1	<1
Phosphorus	ppm	ASTM D5185(m)	0.0	2	0	0
Zinc	ppm	ASTM D5185(m)	0.1	5	2	3
Sulfur	ppm	ASTM D5185(m)	848	994	1040	1012
Visc @ 100°C	cSt	ASTM D7279(m)	20.2	23.3	21.3	22.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0886708
Lab Number : 02633095
Unique Number : 5774248
Test Package : AVI 1
Received : 03 May 2024
Tested : 03 May 2024
Diagnosed : 05 May 2024 - Kevin Marson

SKYCAR 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.