



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(C-GAPB)

Machine Id

[C-GAPB] PIPER WARRIOR 2 L-15043-27AC

Component

Front Piston Aircraft Engine

Fluid

PHILLIPS 66 AVIATION X/C OIL SAE20W50 (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0921444	WC0882198	WC0841052
Sample Date		Client Info		01 May 2024	29 Jan 2024	25 Sep 2023
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		1519	1439	0
Oil Age	hrs	Client Info		37	42	42
Filter Age	hrs	Client Info		37	42	42
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	26	27	24
Chromium	ppm	ASTM D5185(m)	>20	5	6	6
Nickel	ppm	ASTM D5185(m)	>15	2	2	1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	4	4	4
Lead	ppm	ASTM D5185(m)	>20000	2938	2854	2590
Copper	ppm	ASTM D5185(m)	>25	2	3	3
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

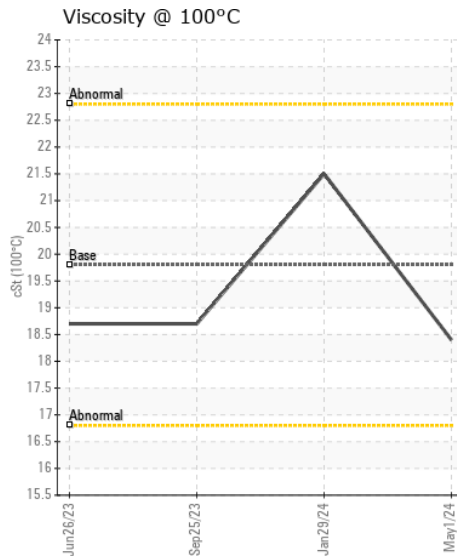
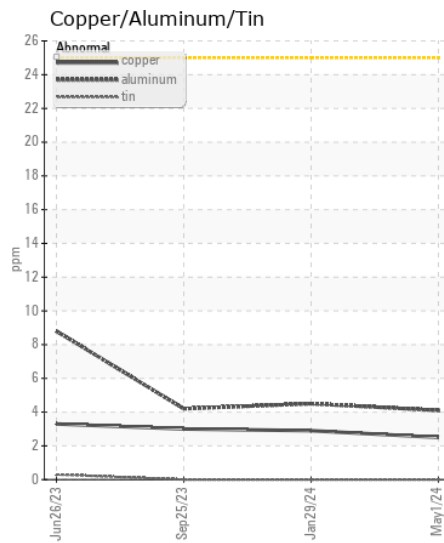
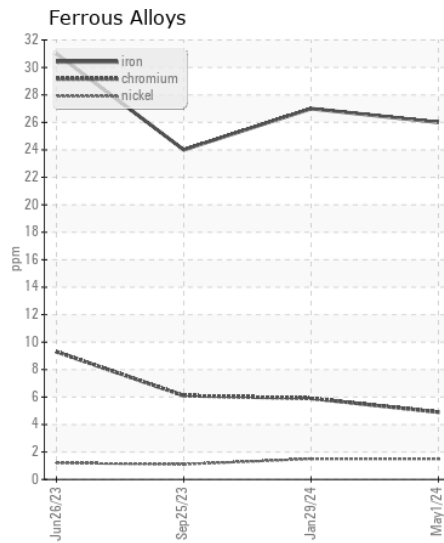
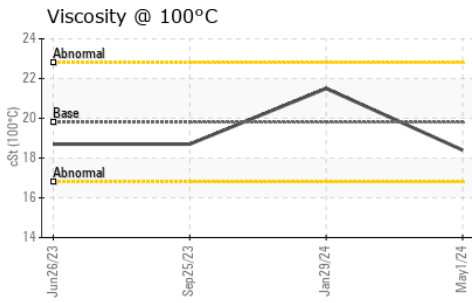
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	3	5	5
Potassium	ppm	ASTM D5185(m)	>20	0	<1	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	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	▲ WGOIL	NORML
Odor	scalar	Visual*	NORML	NORML		NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	▲ .5%	NEG

FLUID CONDITION

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)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	2	0
Calcium	ppm	ASTM D5185(m)		<1	4	<1
Phosphorus	ppm	ASTM D5185(m)		2	1	<1
Zinc	ppm	ASTM D5185(m)		1	4	1
Sulfur	ppm	ASTM D5185(m)		950	1091	1010
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	18.4	21.5	18.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CORPORATE AIRCRAFT RESTORATIONS**
Sample No. : WC0921444 **Received** : 03 May 2024 481 AVIATOR LANE
Lab Number : 02633098 **Tested** : 03 May 2024 OSHAWA, ON
Unique Number : 5774251 **Diagnosed** : 03 May 2024 - Kevin Marson CA L1J 0B8
Test Package : AVI 1 Contact: Dave Douglas

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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