



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(C-GPNC)

Machine Id

[C-GPNC] RV-8 L-35925-36A

Component

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		WC0921436	WC0820331	---
Sample Date		Client Info		28 May 2024	13 Jun 2023	---
TSN	hrs	Client Info		0	392	---
TSO	hrs	Client Info		590	0	---
Oil Age	hrs	Client Info		13	10	---
Filter Age	hrs	Client Info		13	10	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	11	5	---
Chromium	ppm	ASTM D5185(m)	>20	1	<1	---
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>5	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	5	2	---
Lead	ppm	ASTM D5185(m)	>20000	1540	1129	---
Copper	ppm	ASTM D5185(m)	>25	4	2	---
Tin	ppm	ASTM D5185(m)	>30	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

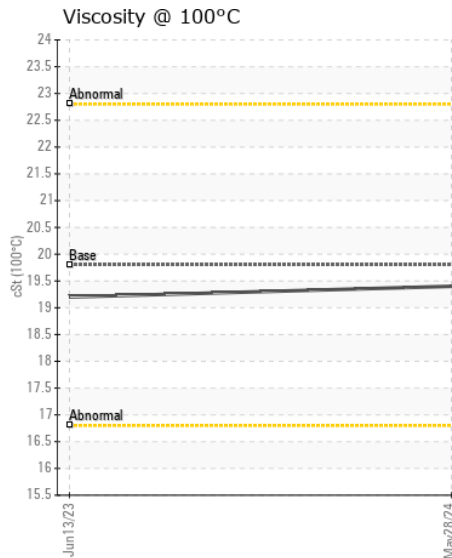
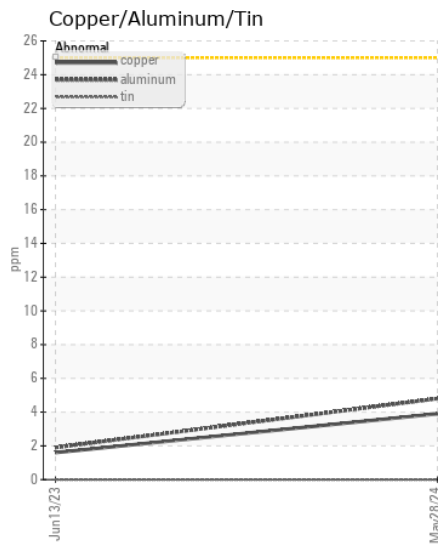
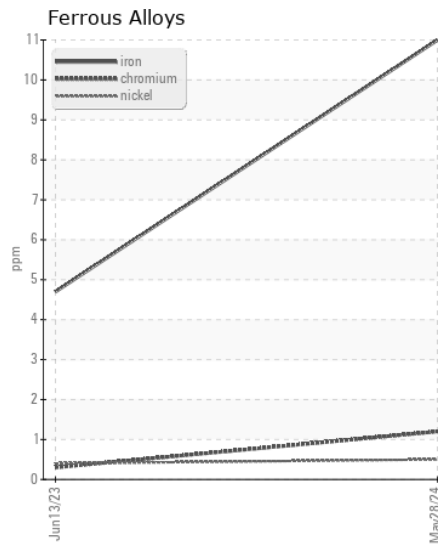
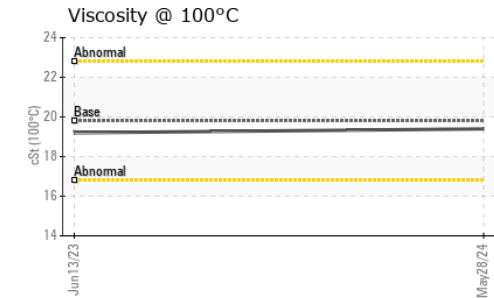
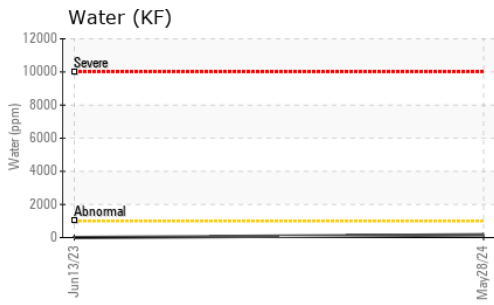
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	5	7	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water	%	ASTM D6304*	>0.1	0.016	---	---
ppm Water	ppm	ASTM D6304*	>1000	169	---	---
Glycol		WC Method		NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	MILKY	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	0	---
Boron	ppm	ASTM D5185(m)		0	<1	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		1	<1	---
Calcium	ppm	ASTM D5185(m)		45	2	---
Phosphorus	ppm	ASTM D5185(m)		1221	1683	---
Zinc	ppm	ASTM D5185(m)		10	4	---
Sulfur	ppm	ASTM D5185(m)		1335	1051	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	19.4	19.2	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0921436
Lab Number : 02638449
Unique Number : 5787611
Test Package : AVI 1 (Additional Tests: KF)

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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.