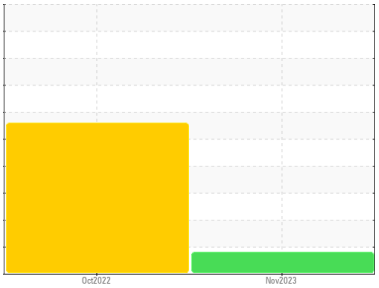
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
(C-GKSY)
Machine Id
[C-GKSY] PIPER PA31 L-6626-61A
Component
Right Piston Aircraft Engine
Fluid
SHELL AEROSHELL W 15W50 MGR (10 LTR)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier la mise au point et le réglage du moteur. Nous vous recommandons de vérifier l`espacement des soupapes et des guides de soupape. Nous vous recommandons de vidanger l`huile de ce composant si vous ne l`avez pas déjà fait. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

Usure de la soupape d`échappement.

Contamination

La teneur en eau est négligeable. Il n`y a aucun indice de contamination dans l`huile.

Fluid Condition

l`huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0765792**	WC0521264	---
Sample Date		Client Info		**28 Nov 2023**	21 Oct 2022	---
TSN	hrs	Client Info		**0**	0	---
TSO	hrs	Client Info		**0**	1337	---
Oil Age	hrs	Client Info		**0**	54	---
Oil Changed		Client Info		**N/A**	Changed	---
Sample Status				**ABNORMAL**	ABNORMAL	---

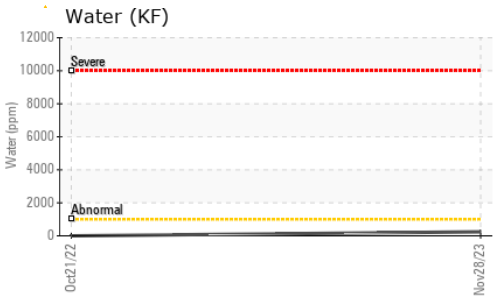
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	---
Glycol		WC Method		**NEG**	NEG	---

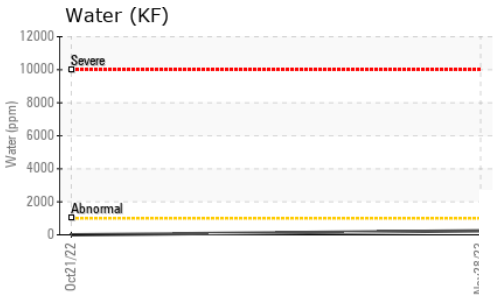
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**79**	▲ 127	---
Chromium	ppm	ASTM D5185(m)	>20	**15**	▲ 30	---
Nickel	ppm	ASTM D5185(m)	>15	▲ **15**	▲ 18	---
Titanium	ppm	ASTM D5185(m)		**0**	<1	---
Silver	ppm	ASTM D5185(m)	>5	**<1**	0	---
Aluminum	ppm	ASTM D5185(m)	>25	**10**	▲ 26	---
Lead	ppm	ASTM D5185(m)	>20000	**8637**	9534	---
Copper	ppm	ASTM D5185(m)	>25	**14**	▲ 55	---
Tin	ppm	ASTM D5185(m)	>30	**0**	0	---
Antimony	ppm	ASTM D5185(m)		**0**	<1	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**<1**	3	---

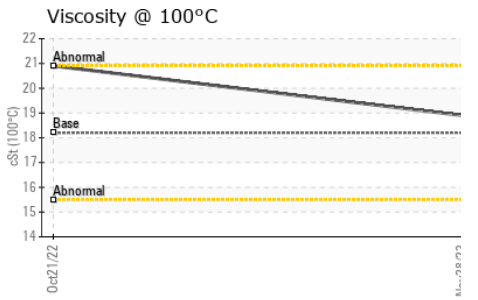
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	<1	---
Barium	ppm	ASTM D5185(m)		**0**	0	---
Molybdenum	ppm	ASTM D5185(m)	5	**0**	0	---
Manganese	ppm	ASTM D5185(m)		**0**	0	---
Magnesium	ppm	ASTM D5185(m)	10	**3**	15	---
Calcium	ppm	ASTM D5185(m)	10	**1**	2	---
Phosphorus	ppm	ASTM D5185(m)	1280	**1063**	1018	---
Zinc	ppm	ASTM D5185(m)	10	**6**	30	---
Sulfur	ppm	ASTM D5185(m)	1800	**1066**	1045	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**4**	12	---
Sodium	ppm	ASTM D5185(m)		**1**	2	---
Potassium	ppm	ASTM D5185(m)	>20	**0**	<1	---
Water	%	ASTM D6304*	>0.1	**0.024**	---	---
ppm Water	ppm	ASTM D6304*	>1000	**244**	---	---

OIL ANALYSIS REPORT



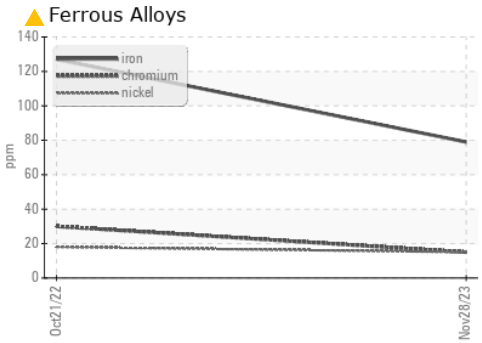


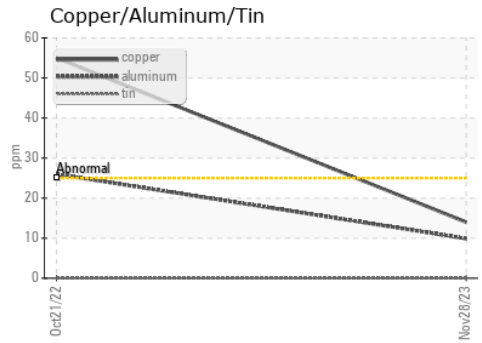


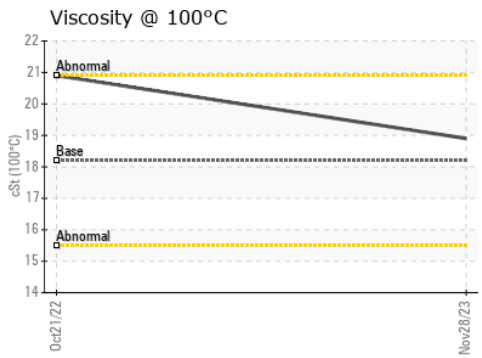
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**NONE**	VLITE	---
Debris	scalar	Visual*	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	---
Appearance	scalar	Visual*	NORML	**NORML**	NORML	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	---
Emulsified Water	scalar	Visual*	>0.1	**.2%**	▲ .2%	---
Free Water	scalar	Visual*		**NEG**	▲ 1%	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	**18.9**	20.9	---

GRAPHS







ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0765792 **Received** : 05 Dec 2023
Lab Number : 02600955 **Tested** : 06 Dec 2023
Unique Number : 5694040 **Diagnosed** : 06 Dec 2023 - 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.

A@Z Aviation
107-23 Rue du ciel
Bromont, QC
CA J2L 2X4
Contact: Alain Guillemette
alain.guillemette@videotron.ca
T: (450)534-1010
F: