



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**(C-GKSP)**  
Machine Id  
**L-1508-68A**  
Component  
**Right Piston Aircraft Engine**  
Fluid  
**SHELL AEROSHELL W 15W50 MGR (10 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0706058</b>	WC0706060	WC0706029
Sample Date		Client Info		<b>27 Jan 2024</b>	06 Jan 2024	02 Nov 2023
TSN	hrs	Client Info		<b>0</b>	0	0
TSO	hrs	Client Info		<b>1659</b>	1622	1471
Oil Age	hrs	Client Info		<b>37</b>	50	54
Filter Age	hrs	Client Info		<b>37</b>	50	54
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>39</b>	72	65
Chromium	ppm	ASTM D5185(m)	>20	<b>5</b>	12	11
Nickel	ppm	ASTM D5185(m)	>15	<b>5</b>	14	8
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>8</b>	11	12
Lead	ppm	ASTM D5185(m)	>20000	<b>6209</b>	7396	6770
Copper	ppm	ASTM D5185(m)	>25	<b>9</b>	10	10
Tin	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

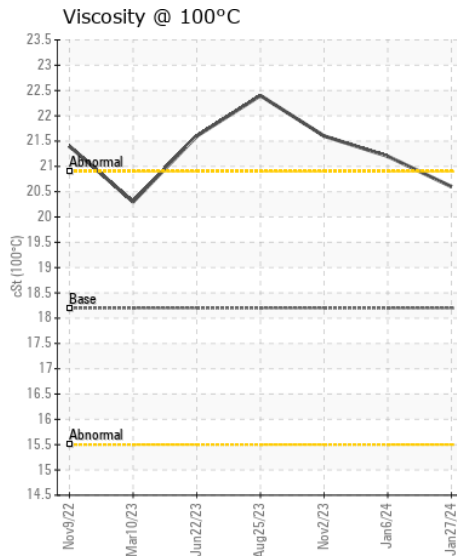
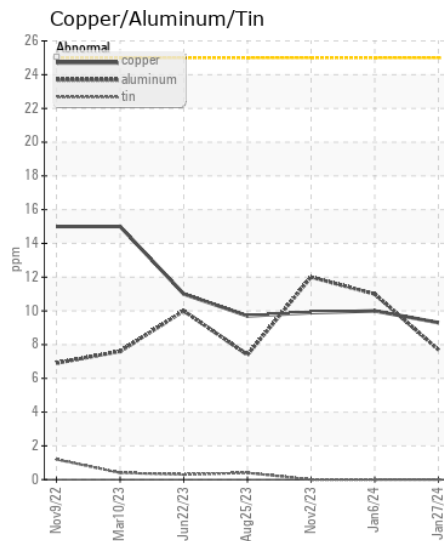
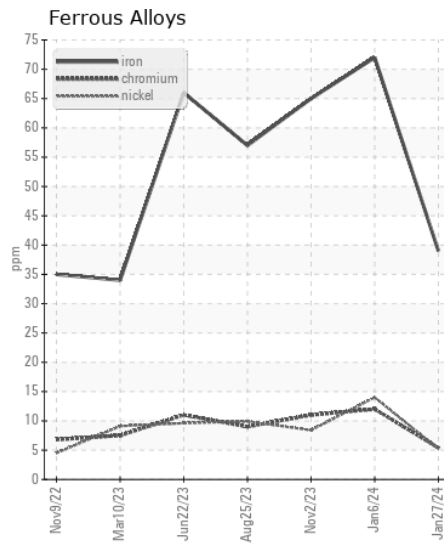
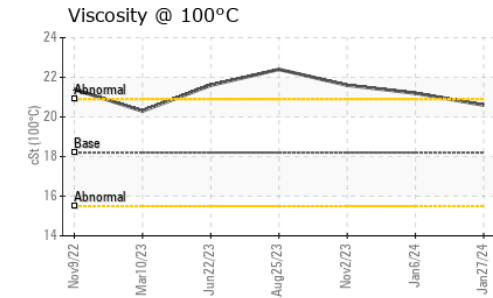
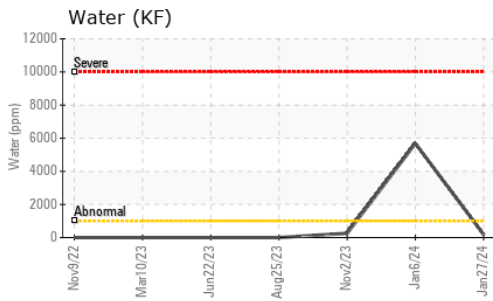
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>5</b>	5	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	%	ASTM D6304*	>0.1	<b>0.018</b>	▲ 0.567	0.025
ppm Water	ppm	ASTM D6304*	>1000	<b>186</b>	▲ 5679	259.7
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	LIGHT	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>.2%</b>	▲ .2%	.2%

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	10	<b>4</b>	4	3
Calcium	ppm	ASTM D5185(m)	10	<b>3</b>	1	1
Phosphorus	ppm	ASTM D5185(m)	1280	<b>1063</b>	1067	644
Zinc	ppm	ASTM D5185(m)	10	<b>10</b>	7	7
Sulfur	ppm	ASTM D5185(m)	1800	<b>1793</b>	1731	2236
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	<b>20.6</b>	21.2	21.6



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0706058  
**Lab Number** : 02615952  
**Unique Number** : 5733062  
**Test Package** : AVI 1 ( Additional Tests: KF )

**Received** : 15 Feb 2024  
**Tested** : 16 Feb 2024  
**Diagnosed** : 16 Feb 2024 - Kevin Marson

**KASI AVIATION SERVICES INC**  
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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.