



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**(CGMEC)**  
Machine Id  
**RL-306-61AC**  
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>WC0882929</b>	WC0706033	WC0706054
Sample Date		Client Info		<b>23 Feb 2024</b>	13 Oct 2023	15 Aug 2023
TSN	hrs	Client Info		<b>0</b>	0	0
TSO	hrs	Client Info		<b>404</b>	296	199
Oil Age	hrs	Client Info		<b>64</b>	48	55
Filter Age	hrs	Client Info		<b>64</b>	48	55
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>47</b>	39	53
Chromium	ppm	ASTM D5185(m)	>20	<b>9</b>	9	16
Nickel	ppm	ASTM D5185(m)	>15	<b>4</b>	5	9
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>11</b>	10	14
Lead	ppm	ASTM D5185(m)	>20000	<b>9389</b>	9909	8360
Copper	ppm	ASTM D5185(m)	>25	<b>11</b>	14	▲ 44
Tin	ppm	ASTM D5185(m)	>30	<b>0</b>	0	2
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

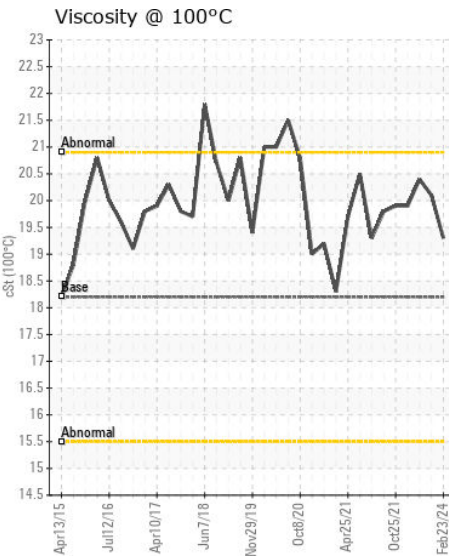
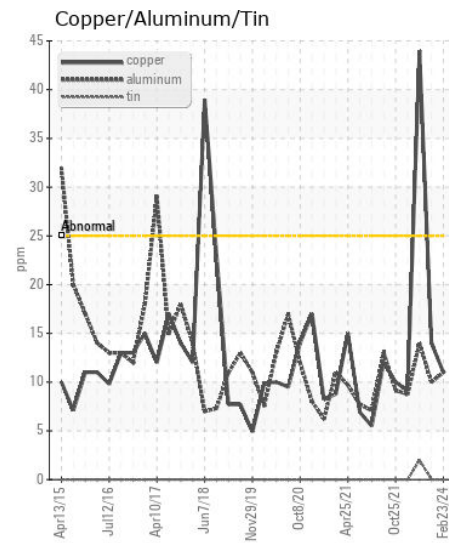
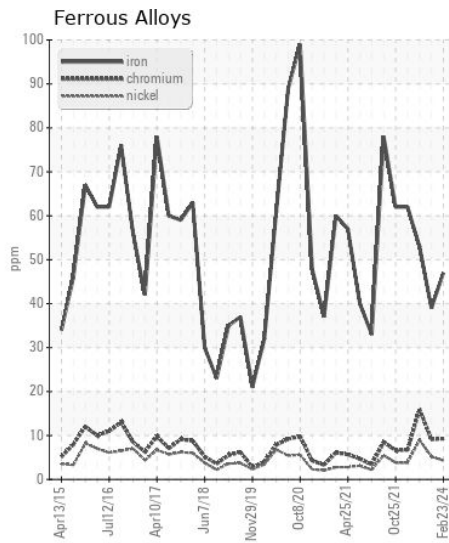
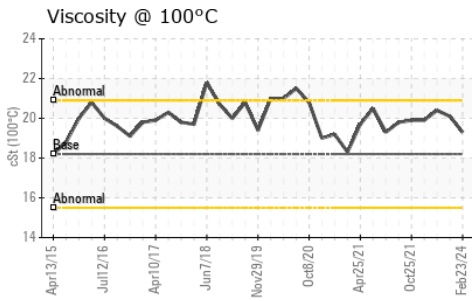
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>4</b>	6	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	▲ MODER
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>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	1
Boron	ppm	ASTM D5185(m)		<b>0</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>11</b>	7	10
Calcium	ppm	ASTM D5185(m)	10	<b>3</b>	1	1
Phosphorus	ppm	ASTM D5185(m)	1280	<b>1091</b>	1097	1090
Zinc	ppm	ASTM D5185(m)	10	<b>7</b>	5	13
Sulfur	ppm	ASTM D5185(m)	1800	<b>1293</b>	1502	1341
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	<b>19.3</b>	20.1	20.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0882929  
**Lab Number** : 02618955  
**Unique Number** : 5736065  
**Test Package** : AVI 1  
**Received** : 29 Feb 2024  
**Tested** : 29 Feb 2024  
**Diagnosed** : 29 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.