



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**(C-GMEC)**  
Machine Id  
**L-7898-61A**  
Component  
**Left Piston Aircraft Engine**  
Fluid  
**SHELL AEROSHELL W 15W50 MGR (12 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0882930</b>	WC0706034	WC0706056
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>2271</b>	2163	2065
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	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>60</b>	61	77
Chromium	ppm	ASTM D5185(m)	>20	<b>9</b>	11	15
Nickel	ppm	ASTM D5185(m)	>15	<b>8</b>	11	13
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>8</b>	9	10
Lead	ppm	ASTM D5185(m)	>20000	<b>7579</b>	9012	8029
Copper	ppm	ASTM D5185(m)	>25	<b>10</b>	10	15
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

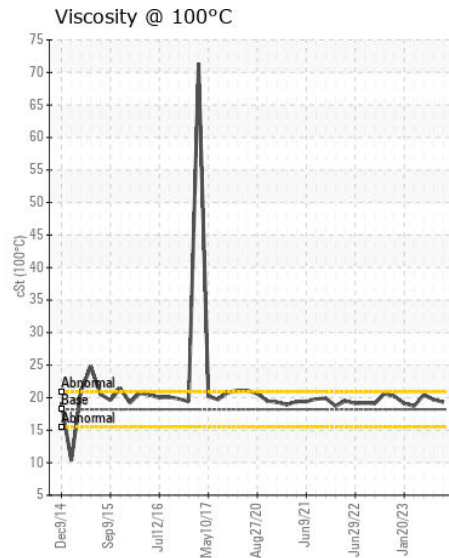
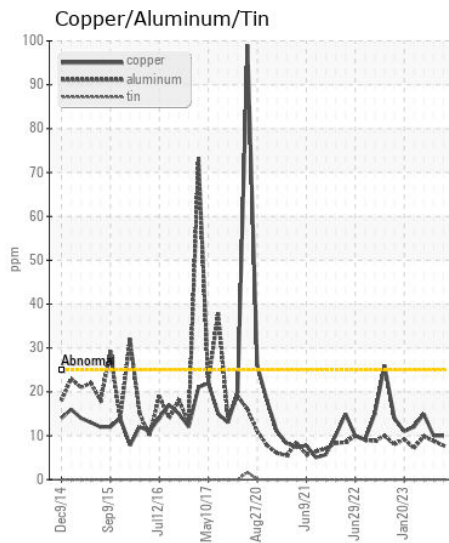
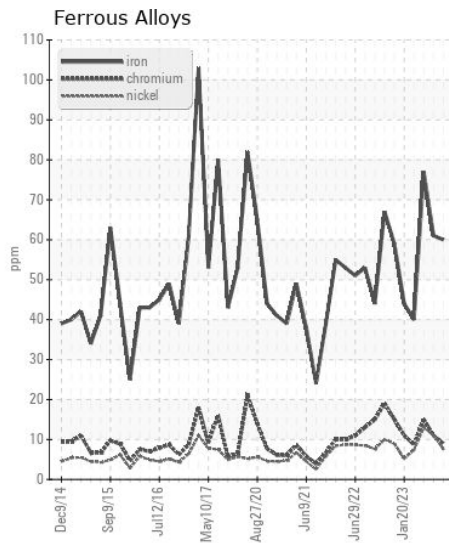
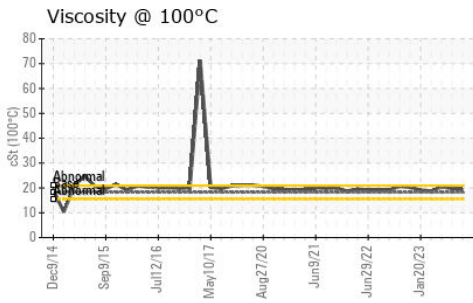
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>4</b>	5	4
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>NONE</b>	NONE	LIGHT
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>3</b>	2	2
Calcium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	1	1
Phosphorus	ppm	ASTM D5185(m)	1280	<b>1138</b>	1237	1194
Zinc	ppm	ASTM D5185(m)	10	<b>7</b>	7	11
Sulfur	ppm	ASTM D5185(m)	1800	<b>1429</b>	1557	1473
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	<b>19.3</b>	19.7	20.4



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0882930  
**Lab Number** : 02618956  
**Unique Number** : 5736066  
**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.