



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**(CGLTP)**  
Machine Id  
**[CGLTP] LANCAIR LC40-55DFG 686262**  
Component  
**Front 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>WC0841061</b>	WC0776187	WC0749477
Sample Date		Client Info		<b>20 Feb 2024</b>	24 Jan 2023	28 Oct 2022
TSN	hrs	Client Info		<b>2922</b>	0	0
TSO	hrs	Client Info		<b>0</b>	757	706
Oil Age	hrs	Client Info		<b>23</b>	51	43
Filter Age	hrs	Client Info		<b>23</b>	51	43
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>58</b>	47	70
Chromium	ppm	ASTM D5185(m)	>20	<b>15</b>	14	16
Nickel	ppm	ASTM D5185(m)	>15	<b>25</b>	21	19
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>11</b>	8	11
Lead	ppm	ASTM D5185(m)	>20000	<b>5249</b>	3494	6116
Copper	ppm	ASTM D5185(m)	>25	<b>9</b>	6	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

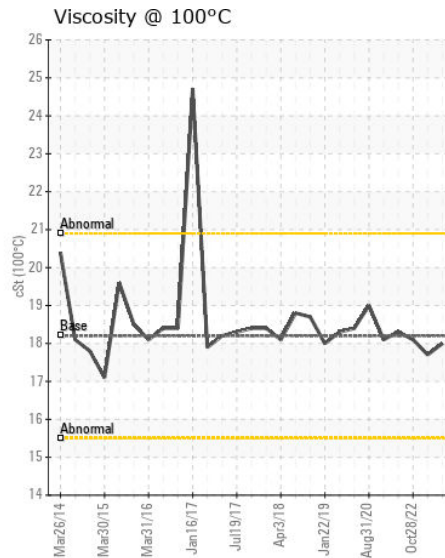
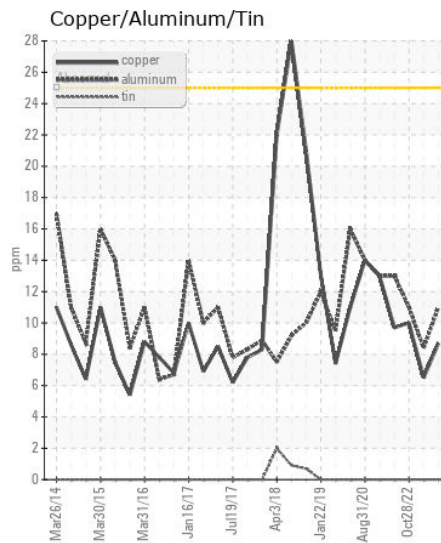
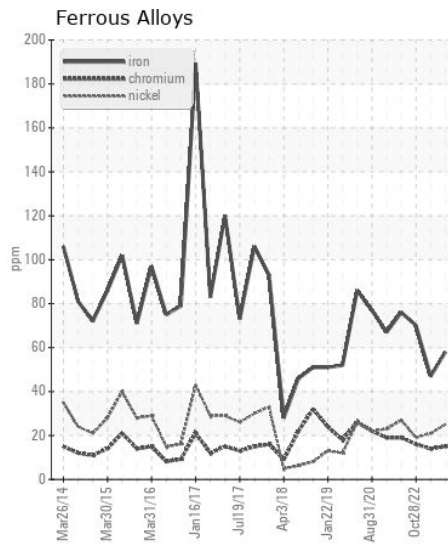
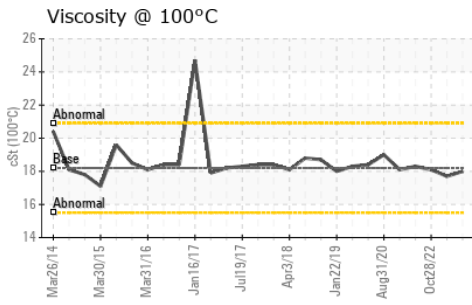
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>7</b>	9	17
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<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>LIGHT</b>	NONE	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>NEG</b>	.2%	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>5</b>	4	7
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	10	<b>2</b>	<1	2
Phosphorus	ppm	ASTM D5185(m)	1280	<b>1147</b>	1262	1135
Zinc	ppm	ASTM D5185(m)	10	<b>10</b>	8	9
Sulfur	ppm	ASTM D5185(m)	1800	<b>1247</b>	1005	1097
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	<b>18.0</b>	17.7	18.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0841061  
**Lab Number** : 02617014  
**Unique Number** : 5734124  
**Test Package** : AVI 1

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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.