



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(C-GKSX)
Machine Id
RL-3123-61A
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		WC0882974	WC0882970	WC0706062
Sample Date		Client Info		08 Jun 2024	27 Apr 2024	22 Nov 2023
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		1475	1382	1183
Oil Age	hrs	Client Info		45	49	0
Filter Age	hrs	Client Info		45	49	27
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	74	89	35
Chromium	ppm	ASTM D5185(m)	>20	12	15	6
Nickel	ppm	ASTM D5185(m)	>15	12	13	4
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>5	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	9	11	7
Lead	ppm	ASTM D5185(m)	>20000	8781	11536	6862
Copper	ppm	ASTM D5185(m)	>25	11	10	5
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

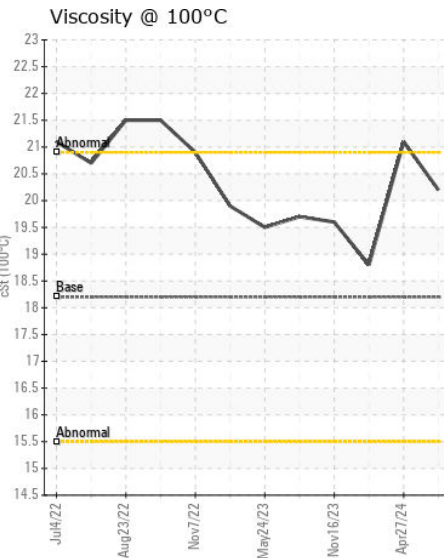
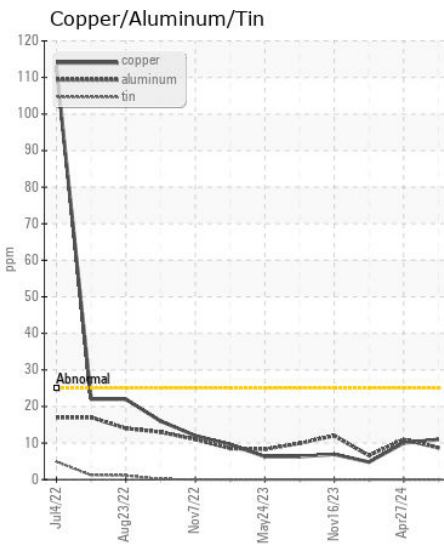
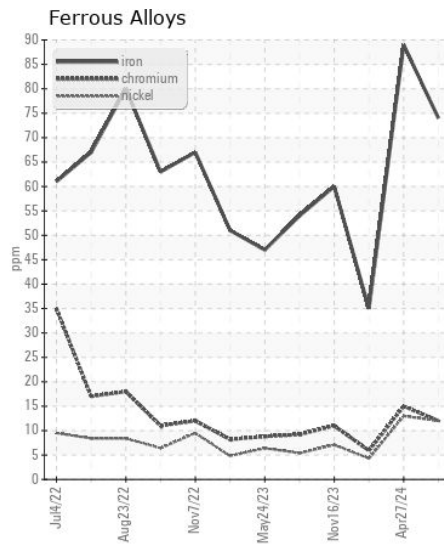
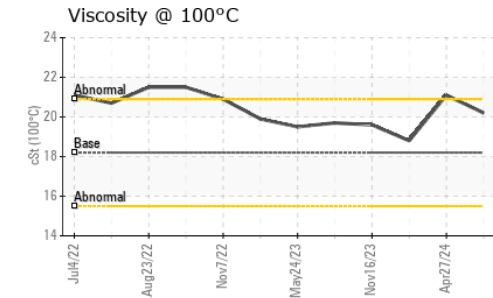
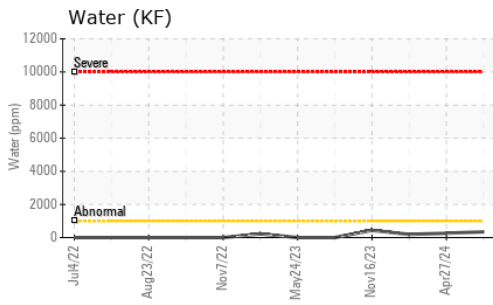
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	5	4	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water	%	ASTM D6304*	>0.1	0.034	0.026	0.019
ppm Water	ppm	ASTM D6304*	>1000	348	263	193
Glycol		WC Method		NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	VLITE	VLITE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	.2%	.2%	.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	1
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	10	3	4	3
Calcium	ppm	ASTM D5185(m)	10	1	<1	1
Phosphorus	ppm	ASTM D5185(m)	1280	1037	963	1082
Zinc	ppm	ASTM D5185(m)	10	4	3	3
Sulfur	ppm	ASTM D5185(m)	1800	1453	1637	1521
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	20.2	21.1	18.8



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0882974
Lab Number : **02645101**
Unique Number : 5802640
Test Package : AVI 1 (Additional Tests: KF)

Received : 02 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 2024 - Kevin Marson

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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.