



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(C-GFGI)
Machine Id
[C-GFGI] GRUMMAN AA5A L-43567-27A
Component
Piston Aircraft Engine
Fluid
SHELL AEROSHELL W 15W50 MGR (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0858329	WC0778521	WC0666494
Sample Date		Client Info		10 Jun 2024	03 Jul 2023	28 Dec 2022
TSN	hrs	Client Info		4593	4565	0
TSO	hrs	Client Info		1323	1295	1273
Oil Age	hrs	Client Info		28	22	39
Filter Age	hrs	Client Info		28	22	39
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	37	25	42
Chromium	ppm	ASTM D5185(m)	>20	6	3	6
Nickel	ppm	ASTM D5185(m)	>15	1	1	1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	9	5	6
Lead	ppm	ASTM D5185(m)	>20000	2503	2742	3513
Copper	ppm	ASTM D5185(m)	>25	11	10	11
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

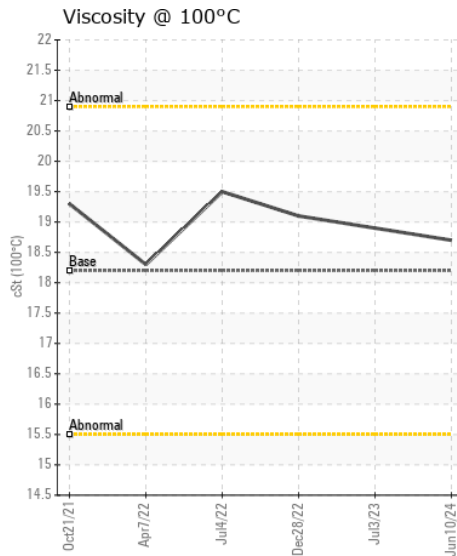
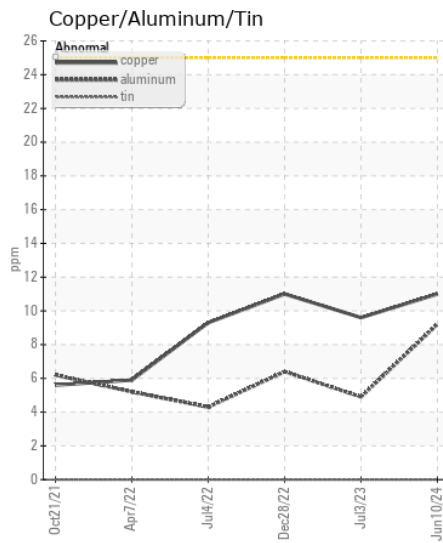
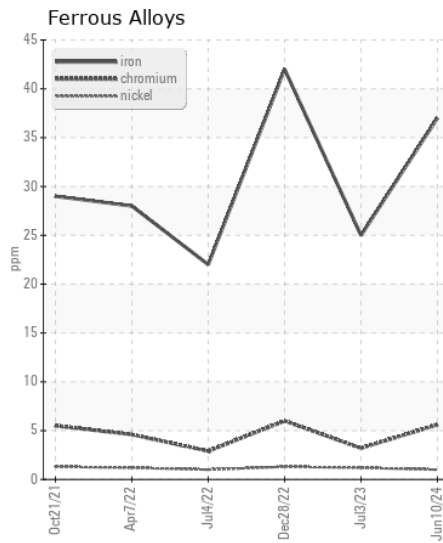
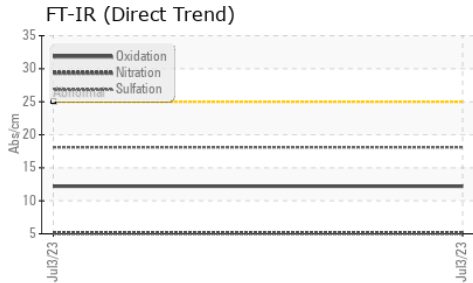
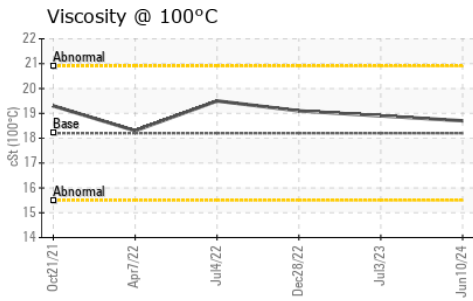
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	3	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		---	0	---
Nitration	Abs/cm	ASTM D7624*	>20	---	5.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	---	18.1	---
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
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	NEG	NEG	NEG

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	<1	<1	1
Calcium	ppm	ASTM D5185(m)	10	1	1	2
Phosphorus	ppm	ASTM D5185(m)	1280	1066	1151	1111
Zinc	ppm	ASTM D5185(m)	10	10	10	11
Sulfur	ppm	ASTM D5185(m)	1800	982	933	1142
Oxidation	Abs/.1mm	ASTM D7414*	>25	---	12.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	18.7	18.9	19.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0858329 **Received** : 12 Jun 2024
Lab Number : 02641391 **Tested** : 12 Jun 2024
Unique Number : 5798930 **Diagnosed** : 12 Jun 2024 - Kevin Marson
Test Package : AVI 1 (Additional Tests: FT-IR)

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.

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