OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINANTS	NORMAL
OIL CONDITION	NORMAL

Area
(C-FDYP)
Machine Id
[C-FDYP] FLEET 80 4226912
Component
Piston Aircraft Engine
Fluid
SHELL AEROSHELL W 15W50 MGR (5 LTR)

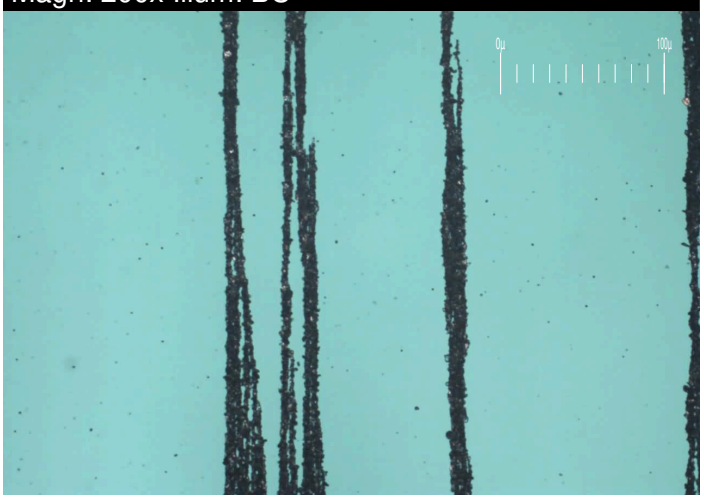
RECOMMENDATION

Resample at the next service interval to monitor.

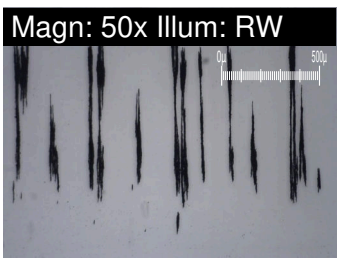
WEAR

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

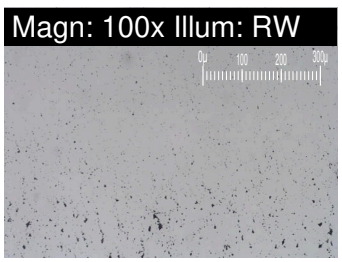
Magn: 200x Illum: BC



Magn: 50x Illum: RW



Magn: 100x Illum: RW



Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0725559	---	---
Sample Date		Client Info		07 May 2024	---	---
TSN	hrs	Client Info		3325	---	---
TSO	hrs	Client Info		1109	---	---
Oil Age	hrs	Client Info		17	---	---
Filter Age	hrs	Client Info		17	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---
Iron	ppm	ASTM D5185(m)	>90	11	---	---
Chromium	ppm	ASTM D5185(m)	>20	0	---	---
Nickel	ppm	ASTM D5185(m)	>15	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>5	0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	4	---	---
Lead	ppm	ASTM D5185(m)	>20000	1934	---	---
Copper	ppm	ASTM D5185(m)	>25	4	---	---
Tin	ppm	ASTM D5185(m)	>30	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Large Particles		DR-Ferr*		44.4	---	---
Small Particles		DR-Ferr*		32.6	---	---
Total Particles		DR-Ferr*	>---	77	---	---
Large Particles Percentage	%	DR-Ferr*		15.3	---	---
Severity Index		DR-Ferr*		524	---	---
Ferrous Rubbing	Scale 0-10	ASTM D7684*		4		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		2		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		1		
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*		1		
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				

CONTAMINANTS

There is no indication of any contamination in the oil.

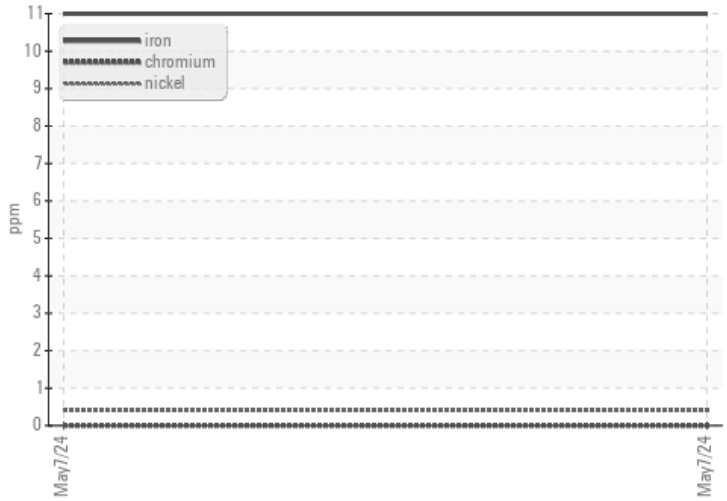
Silicon	ppm	ASTM D5185(m)	>15	**4**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Fuel		WC Method	>4.0	**<1.0**	---	---
Water		WC Method	>0.1	**NEG**	---	---
Glycol		WC Method		**NEG**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>0.1	**NEG**	---	---
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		**1**		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		**2**		

OIL CONDITION

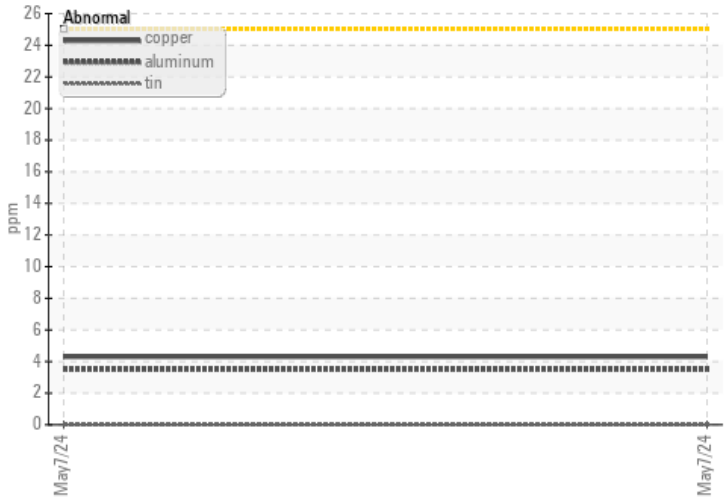
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		**1**	---	---
Boron	ppm	ASTM D5185(m)		**<1**	---	---
Barium	ppm	ASTM D5185(m)		**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	5	**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)	10	**20**	---	---
Calcium	ppm	ASTM D5185(m)	10	**176**	---	---
Phosphorus	ppm	ASTM D5185(m)	1280	**1287**	---	---
Zinc	ppm	ASTM D5185(m)	10	**8**	---	---
Sulfur	ppm	ASTM D5185(m)	1800	**2661**	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.1	**1.65**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	**17.0**	---	---
Lubricant Degradation	Scale 0-10	ASTM D7684*				

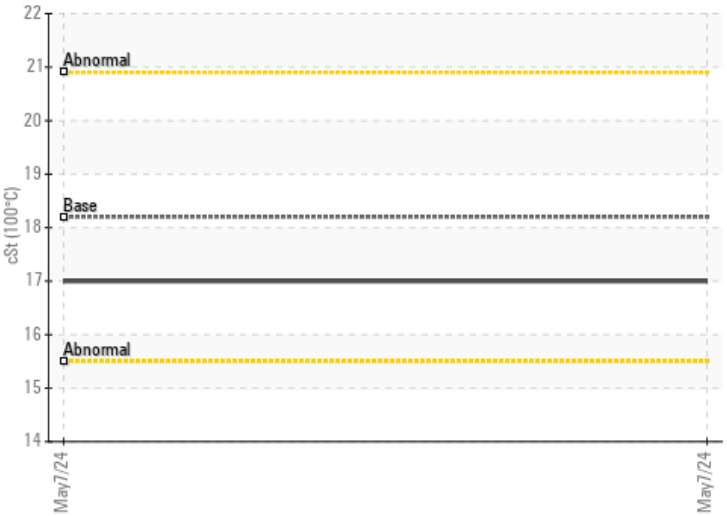
Ferrous Alloys



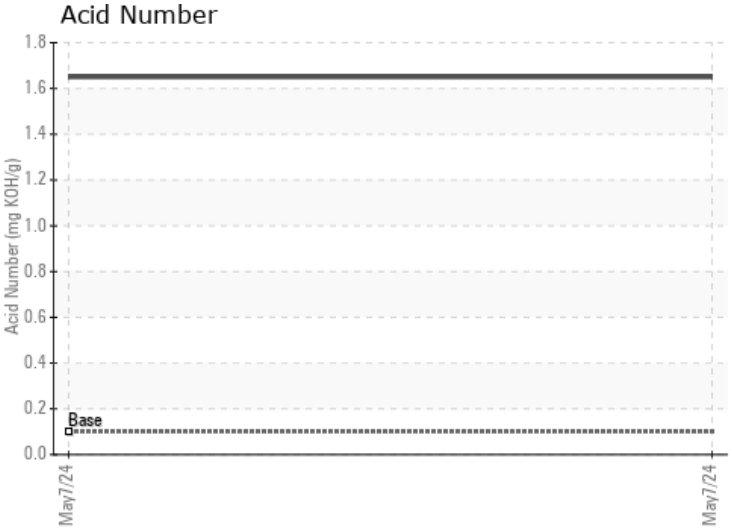
Copper/Aluminum/Tin



Viscosity @ 100°C



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0725559	**Received**	: 10 May 2024
Lab Number	: 02634537	**Tested**	: 10 May 2024
Unique Number	: 5775690	**Diagnosed**	: 14 May 2024 - Kevin Marson
Test Package	: AVI 3		

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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