



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
(C-GTVX)
 Machine Id
[C-GTVX] MOONEY M20R 679488
 Component
Front Piston Aircraft Engine
 Fluid
PHILLIPS 66 AVIATION X/C OIL SAE20W50 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0842821	---	---
Sample Date	Client Info		14 Mar 2024	---	---
TSN	hrs	Client Info	1395	---	---
TSO	hrs	Client Info	1395	---	---
Oil Age	hrs	Client Info	11	---	---
Oil Changed		Client Info	N/A	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	---	---
Water	WC Method	>0.1	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		37	---	---
Iron	ppm	ASTM D5185(m) >90	170	---	---
Chromium	ppm	ASTM D5185(m) >20	18	---	---
Nickel	ppm	ASTM D5185(m) >15	7	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m) >5	0	---	---
Aluminum	ppm	ASTM D5185(m) >25	39	---	---
Lead	ppm	ASTM D5185(m) >20000	1859	---	---
Copper	ppm	ASTM D5185(m) >25	7	---	---
Tin	ppm	ASTM D5185(m) >30	0	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

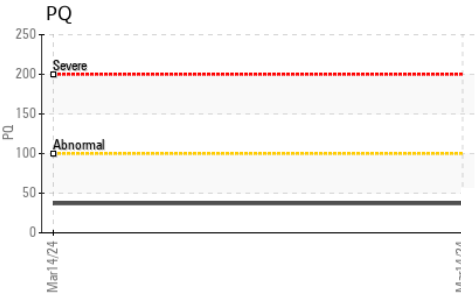
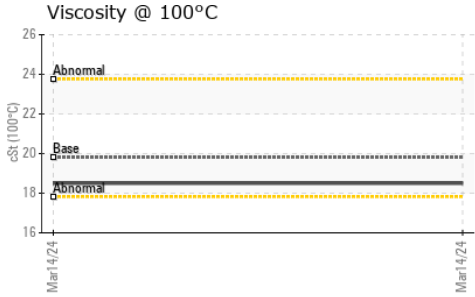
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	18	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m)	2	---	---
Calcium	ppm	ASTM D5185(m)	4	---	---
Phosphorus	ppm	ASTM D5185(m)	136	---	---
Zinc	ppm	ASTM D5185(m)	5	---	---
Sulfur	ppm	ASTM D5185(m)	1105	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	5	---	---
Sodium	ppm	ASTM D5185(m)	<1	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---



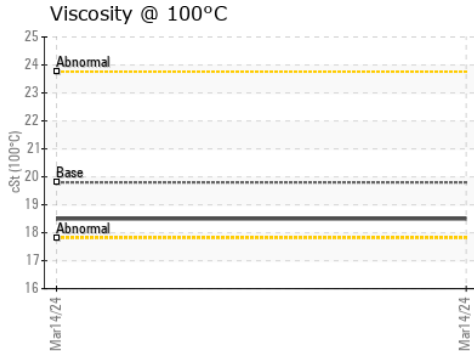
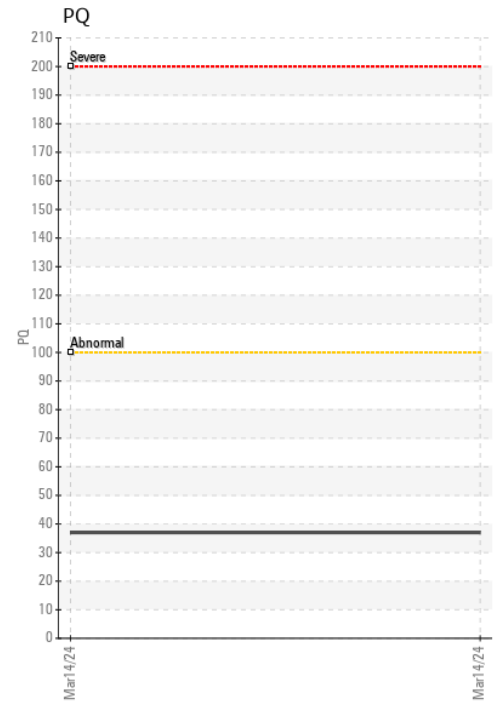
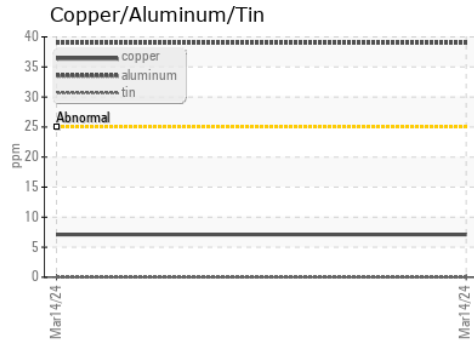
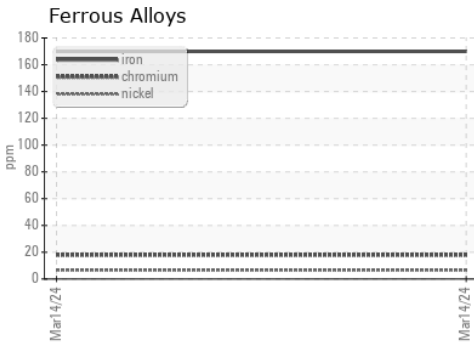
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VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	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	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	18.5	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0842821 **Received** : 26 Mar 2024
Lab Number : 02624609 **Tested** : 27 Mar 2024
Unique Number : 5749728 **Diagnosed** : 27 Mar 2024 - Kevin Marson
Test Package : AVI 1 (Additional Tests: PQ)

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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.