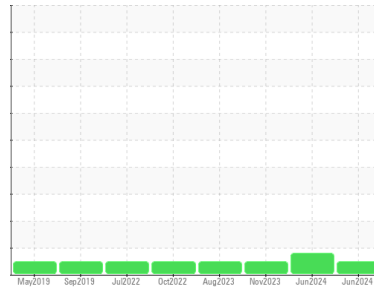




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(N-26AM)**  
 Machine Id  
**[N-26AM] EXTRA 330 L-376-79E**  
 Component  
**Center Piston Aircraft Engine**  
 Fluid  
**SHELL AEROSHELL OIL W 100 PLUS (12 LTR)**

### 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		<b>WC0831807</b>	WC0831806	WC0831804
Sample Date	Client Info		<b>17 Jun 2024</b>	01 Jun 2024	26 Nov 2023
TSN	hrs	Client Info	<b>454</b>	450	424
TSO	hrs	Client Info	<b>454</b>	450	424
Oil Age	hrs	Client Info	<b>4</b>	26	15
Oil Changed		Client Info	<b>Not Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
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

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	<b>13</b>	36	16
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	5	2
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>5</b>	11	7
Lead	ppm	ASTM D5185(m)	>20000	<b>1396</b>	3371	2407
Copper	ppm	ASTM D5185(m)	>25	<b>11</b>	26	18
Tin	ppm	ASTM D5185(m)	>30	<b>0</b>	1	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>3</b>	7	5

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>3</b>	7	7
Calcium	ppm	ASTM D5185(m)	0	<b>4</b>	6	5
Phosphorus	ppm	ASTM D5185(m)		<b>1197</b>	1135	1086
Zinc	ppm	ASTM D5185(m)	0	<b>5</b>	10	7
Sulfur	ppm	ASTM D5185(m)	2600	<b>3117</b>	2949	3147
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

### CONTAMINANTS

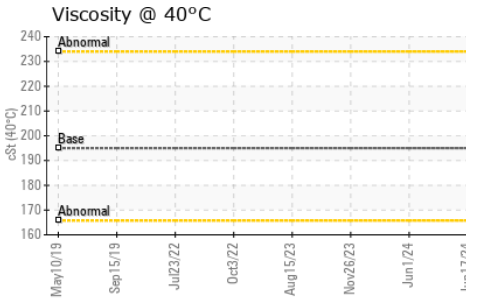
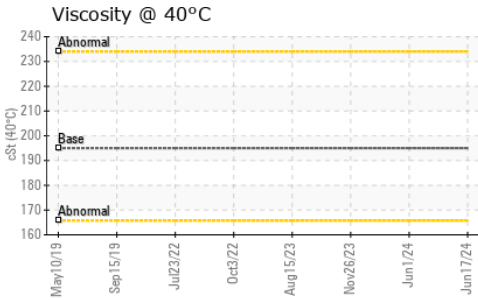
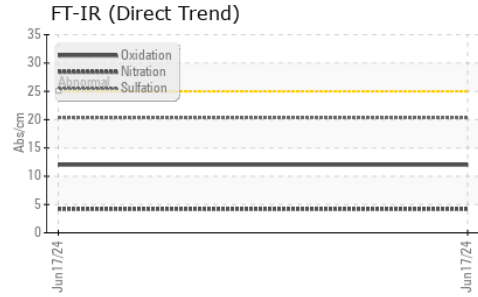
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	<b>8</b>	10	7
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0

### INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.2</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>20.3</b>	---	---



# OIL ANALYSIS REPORT

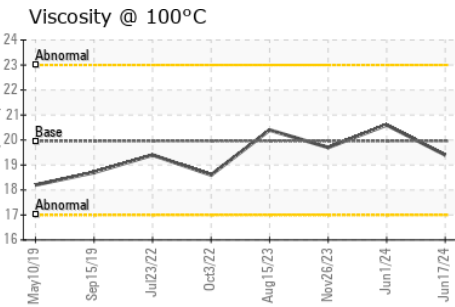
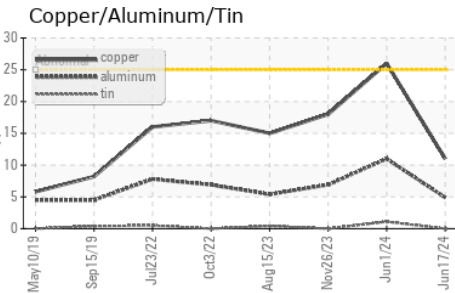
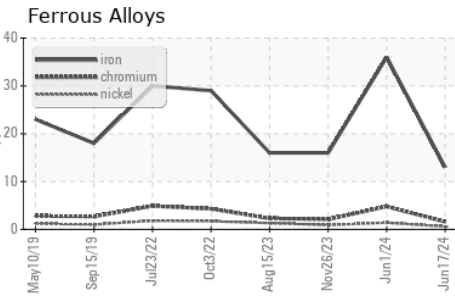


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	>25	<b>12.0</b>	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	195	<b>228</b>	---	---
Visc @ 100°C	cSt ASTM D7279(m)	19.96	<b>19.4</b>	20.6	19.7
Viscosity Index (VI)	Scale ASTM D2270*	116	<b>96</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0831807 **Received** : 18 Jun 2024  
**Lab Number** : **02642487** **Tested** : 18 Jun 2024  
**Unique Number** : 5800026 **Diagnosed** : 19 Jun 2024 - Kevin Marson  
**Test Package** : AVI 1 ( Additional Tests: FT-IR, KV40, VI )

**PETE MCLEOD AERO SPORTS**  
 750 HICKORY STICK KEY  
 LONDON, ON  
 CA N6G 0M9  
 Contact: Patrick Phillips  
 patrick.phillips@rogers.com

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.