



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINANTS	NORMAL
OIL CONDITION	NORMAL

Area  
**(C-FTEJ)**  
Machine Id  
**[C-FTEJ] CESSNA 150K 900250-OH**  
Component  
**Piston Aircraft Engine**  
Fluid  
**PHILLIPS 66 AVIATION X/C OIL SAE20W50 (5 QTS)**

**RECOMMENDATION**

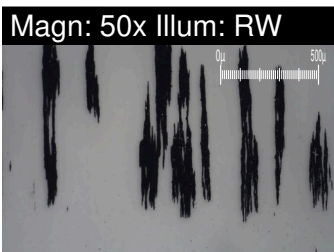
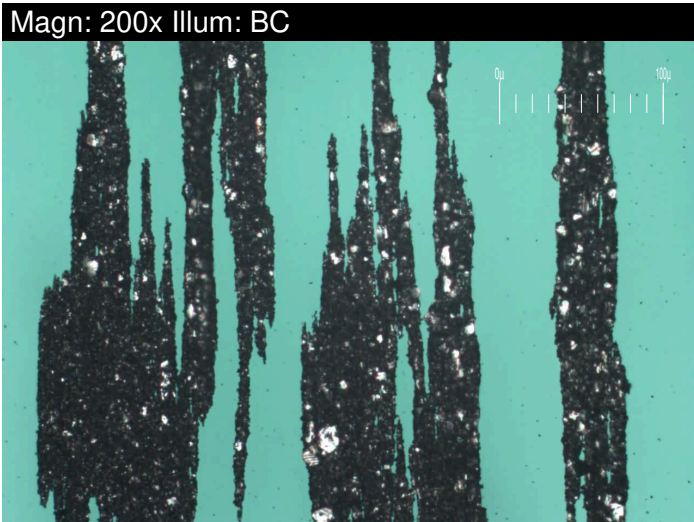
Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0725556</b>	WC0725520	---
Sample Date		Client Info		<b>04 Mar 2024</b>	02 Nov 2022	---
TSN		Client Info		<b>0</b>	0	---
TSO		Client Info		<b>2246</b>	2022	---
Oil Age		Client Info		<b>28</b>	13	---
Filter Age		Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

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

Iron	ppm	ASTM D5185(m)	>90	<b>60</b>	46	---
Chromium	ppm	ASTM D5185(m)	>20	<b>5</b>	7	---
Nickel	ppm	ASTM D5185(m)	>15	<b>2</b>	2	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>6</b>	6	---
Lead	ppm	ASTM D5185(m)	>20000	<b>3062</b>	1836	---
Copper	ppm	ASTM D5185(m)	>25	<b>4</b>	4	---
Tin	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Large Particles		DR-Ferr*		<b>27.5</b>	---	---
Small Particles		DR-Ferr*		<b>12.6</b>	---	---
Total Particles		DR-Ferr*	>---	<b>40.1</b>	---	---
Large Particles Percentage	%	DR-Ferr*		<b>37.2</b>	---	---
Severity Index		DR-Ferr*		<b>410</b>	---	---
Ferrous Rubbing	Scale 0-10	ASTM D7684*		<b>4</b>		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		<b>2</b>		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		<b>1</b>		
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*		<b>1</b>		
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.

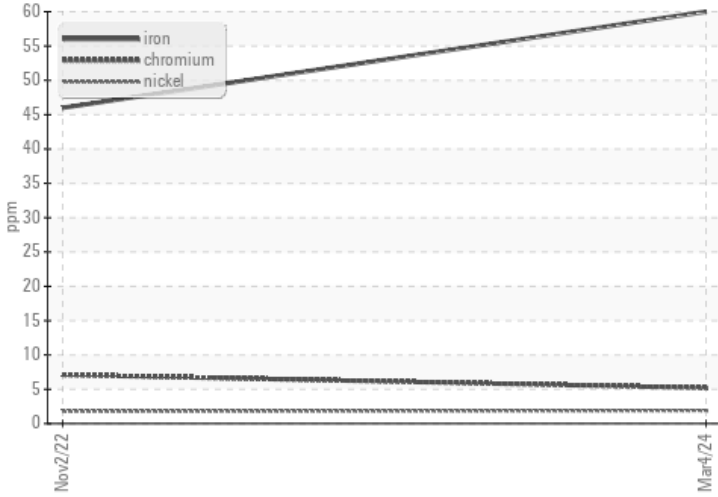
Silicon	ppm	ASTM D5185(m)	>15	<b>9</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	---
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		<b>1</b>		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		<b>1</b>		

## OIL CONDITION

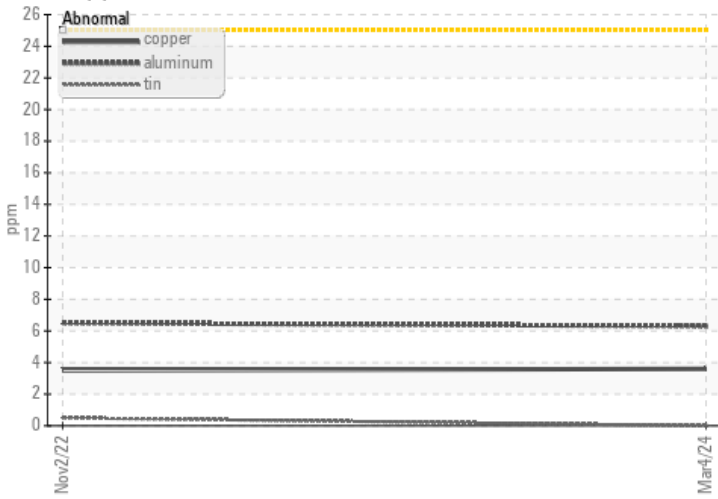
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Boron	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)		<b>4</b>	<1	---
Calcium	ppm	ASTM D5185(m)		<b>2</b>	3	---
Phosphorus	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	---
Zinc	ppm	ASTM D5185(m)		<b>4</b>	4	---
Sulfur	ppm	ASTM D5185(m)		<b>917</b>	1036	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.15	<b>0.41</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	<b>17.8</b>	18.7	---
Lubricant Degradation	Scale 0-10	ASTM D7684*				

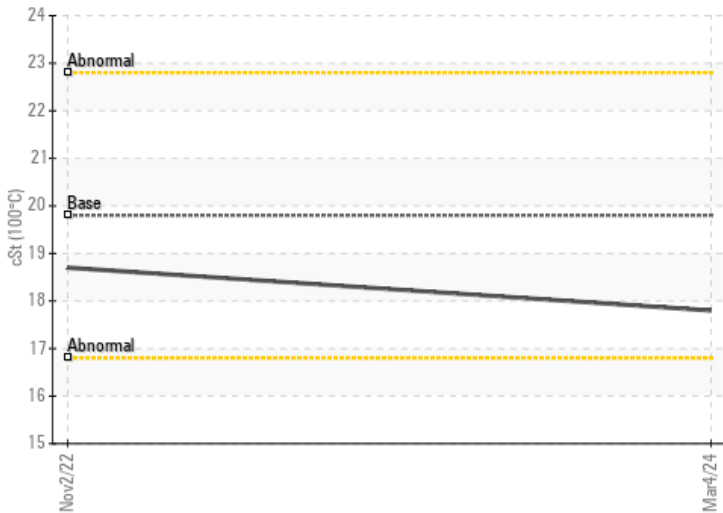
### Ferrous Alloys



### Copper/Aluminum/Tin



### Viscosity @ 100°C



### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0725556  
**Lab Number** : 02620183  
**Unique Number** : 5737293  
**Test Package** : AVI 3  
**Received** : 06 Mar 2024  
**Tested** : 07 Mar 2024  
**Diagnosed** : 08 Mar 2024 - Kevin Marson

**GENERAL AIRSPRAY LTD.**  
 6375 AIRPORT DRIVE, R.R. #1  
 LUCAN, ON  
 CA N0M 2J0  
 Contact: Paul Hodgins  
 genairspray@hotmail.com  
 T: (519)227-4091  
 F: (519)227-1588

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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