

(C-GNLR) Machine Id [C-GNLR] CESSNA 172N L-7986-76T Piston Aircraft Engine

SHELL AEROSHELL W 15W50 MGR (6 LTR)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

WEAR	

All component wear rates are normal.

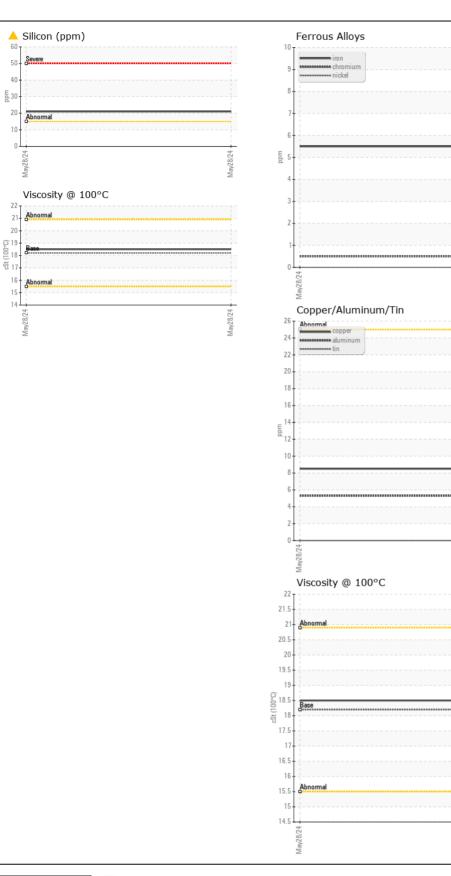
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITIO	
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The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0931371		
Sample Date		Client Info		28 May 2024		
TSN	hrs	Client Info		0		
TSO	hrs	Client Info		530		
Oil Age	hrs	Client Info		15		
Filter Age	hrs	Client Info		15		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185(m)	>90	6		
Chromium	ppm	ASTM D5185(m)	>20	<1		
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	5		
Lead	ppm	ASTM D5185(m)	>20000	2271		
Copper	ppm	ASTM D5185(m)	>25	8		
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		
Silicon			. 16	2 1		
Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>15 >20	▲ 21 0		
Fuel	ppm	WC Method	>20	ہ <1.0		
Water		WC Method	>4.0	×1.0 NEG		
Glycol		WC Method	>0.1	NEG		
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		
		v isuai	>0.1			
Sodium	ppm	ASTM D5185(m)		1		
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	10	<1		
Calcium	ppm	ASTM D5185(m)	10	1		
Phosphorus	ppm	ASTM D5185(m)	1280	1121		
Phosphorus Zinc	ppm ppm	ASTM D5185(m) ASTM D5185(m)	1280 10	1121 3		
		,				
Zinc	ppm	ASTM D5185(m)	10	3		



HANDFIELD AVIATION Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sample No. Received : 03 Jun 2024 4920 RTE DE L'AEROPORT : WC0931371 Lab Number : 02639395 Tested : 04 Jun 2024 ST-HUBERT, QC Unique Number : 5788557 Diagnosed : 04 Jun 2024 - Kevin Marson CA J3Y 8Y9 Test Package : AVI 1 Contact: Pierre To discuss this sample report, contact Customer Service at 1-800-268-2131. maintenance@handfieldaviation.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (450)462-8511 Validity of results and interpretation are based on the sample and information as supplied. F:

May28/24

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CALA

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