

WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

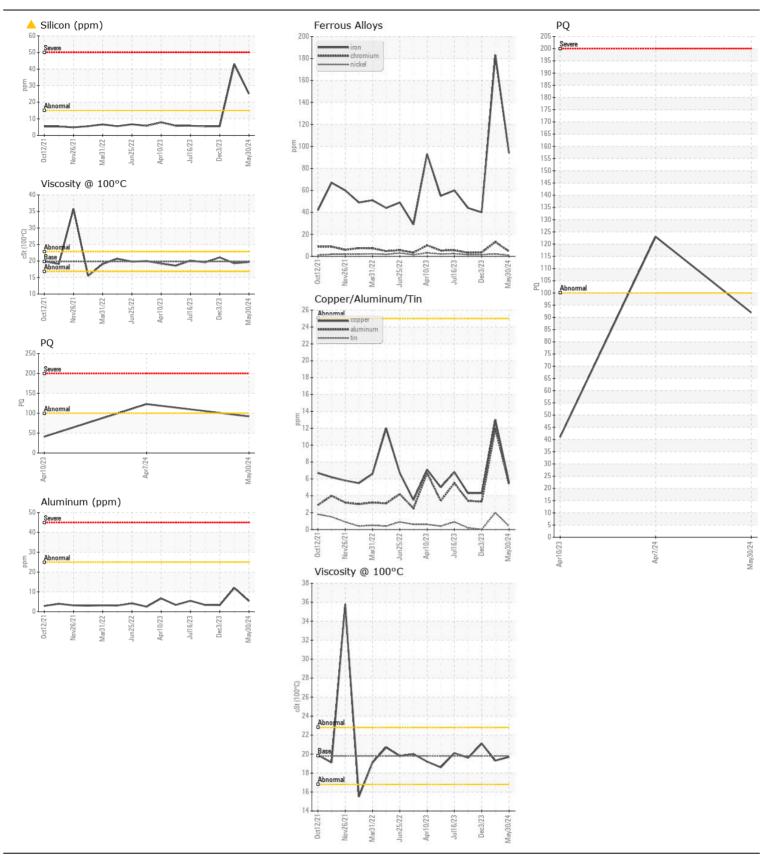
Area

(C-FRRG)

CESSNA 32175-D-5-C

Piston Aircraft Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number	OOW	Client Info	LITTIO/NOTI	WC0827563	WC0827564	
	Sample Date		Client Info		30 May 2024		03 Dec 2023
	TSN	hrs	Client Info		0	0	0
	TSO	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184*		92	123	
WLAN	Iron	ppm	ASTM D5185(m)	~90	94	▲ 183	40
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		5	13	4
	Nickel	ppm	ASTM D5185(m)		<1	2	2
	Titanium	ppm	ASTM D5185(m)	710	0	0	0
	Silver	ppm	ASTM D5185(m)	>5	0	0	<1
	Aluminum	ppm	ASTM D5185(m)		5	12	3
	Lead	ppm		>20000	1782	3356	2174
	Copper	ppm	ASTM D5185(m)	>25	6	13	4
	Tin	ppm	\ /	>30	<1	2	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		<u>^</u> 25	<u>43</u>	5
There is a moderate concentration of dirt present in the oil.	Potassium	ppm	ASTM D5185(m)		<1	<1	0
	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method	NONE	NEG	NEG	NEG
	Silt	scalar	Visual*	NONE	VLITE	VLITE	NONE
	Debris	scalar	Visual* Visual*	NONE	NONE	NONE NONE	NONE
	Sand/Dirt Appearance	scalar scalar	Visual*	NONE NORML	NONE NORML	NORML	NORMI
	Odor	scalar	Visual*	NORML	NORML	NORML	NORMI
	Emulsified Water		Visual*	>0.1	NEG	NEG	.2%
ELUID CONDITION							
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185(m) ASTM D5185(m)		<1 1	<1 <1	<1 <1
The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185(m) ASTM D5185(m)		0	0	<1
	Molybdenum	ppm	ASTM D5185(III) ASTM D5185(m)		0	0	0
	Manganese	ppm	ASTM D5185(m)		<1	1	0
	Magnesium	ppm	ASTM D5185(m)		3	5	3
	Calcium	ppm	ASTM D5185(m)		2	5	2
	Phosphorus	ppm	ASTM D5185(m)		1	3	<1
	Zinc	ppm	ASTM D5185(m)		2	4	2
	Sulfur	ppm	ASTM D5185(m)		863	920	881
	-	PP				0_0	001





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0827563 Lab Number : 02639392

Unique Number : 5788554

Received **Tested** Diagnosed

: 03 Jun 2024 : 04 Jun 2024 - Kevin Marson

: 03 Jun 2024

Test Package : AVI 1 (Additional Tests: PQ)

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.

William Pressey

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