

PROBLEM SUMMARY

Sample Rating Trend

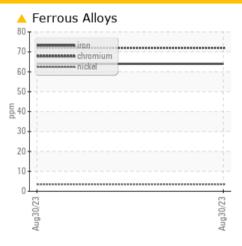
DIRT

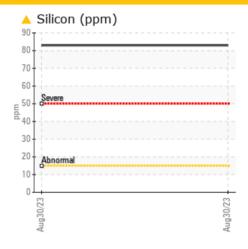
Machine Id CESSNA C-FJTM

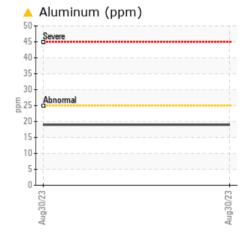
Front Piston Aircraft Engine

PHILLIPS 66 AVIATION TYPE M SAE 20W50 (12 QTS)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check the engine magneto timing. 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. (Customer Sample Comment: Engine is during break in after cylinder work)

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	
Chromium	ppm	ASTM D5185(m)	>20	^ 72	
Aluminum	ppm	ASTM D5185(m)	>25	<u> </u>	
Silicon	ppm	ASTM D5185(m)	>15	<u></u> 83	

Customer Id: CAMGAR **Sample No.:** WC0809642 Lab Number: 02579660 Test Package: AVI 1



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Change Filter			?	We recommend you service the filters on this component.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.			
Check Timing			?	We advise that you check the engine magneto timing.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



CESSNA C-FJTM

Front Piston Aircraft Engine

PHILLIPS 66 AVIATION TYPE M SAE 20W50 (12 QTS)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check the engine magneto timing. 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. (Customer Sample Comment: Engine is during break in after cylinder work)

Wear

Chromium ppm levels are abnormal. Aluminum ppm levels are noted. Ring wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

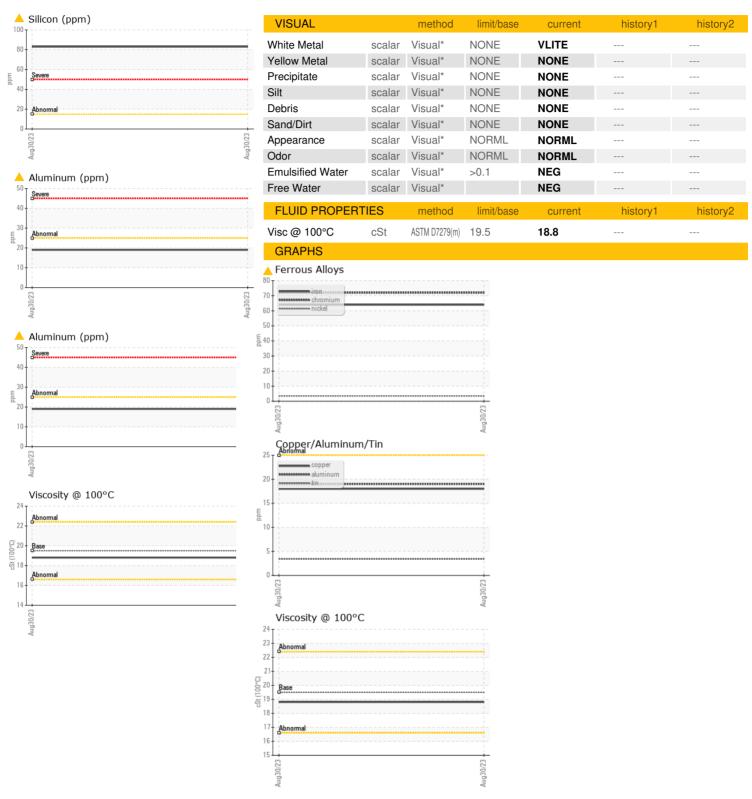
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

60 (12 QTS)			Aug2023			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0809642		
Sample Date		Client Info		30 Aug 2023		
TSN	hrs	Client Info		261		
TSO	hrs	Client Info		261		
Oil Age	hrs	Client Info		7		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	64		
Chromium	ppm	ASTM D5185(m)	>20	<u>^</u> 72		
Nickel	ppm	ASTM D5185(m)	>15	4		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)	>25	<u> </u>		
Lead	ppm	ASTM D5185(m)	>20000	941		
Copper	ppm	ASTM D5185(m)	>25	18		
Tin	ppm	ASTM D5185(m)	>30	3		
Antimony	ppm	ASTM D5185(m)		<1		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		3		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		1		
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese	ppm	ASTM D5185(m)		5		
Magnesium	ppm	ASTM D5185(m)		1		
Calcium	ppm	ASTM D5185(m)		2		
Phosphorus	ppm	ASTM D5185(m)		28		
Zinc	ppm	ASTM D5185(m)		6		
Sulfur	ppm	ASTM D5185(m)		1091		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS)	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	▲ 83		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	<1		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number Test Package : AVI 1

: WC0809642 : 02579660 : 5632720

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 31 Aug 2023 : 01 Sep 2023 Diagnosed

Diagnostician : Kevin Marson

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.

CAMX AEROSPACE 8281 AVIATION RD GARSON, ON

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