

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Area (C-GVRA) Machine Id AVRO LANCASTER

4 Piston Aircraft Engine Fluid SHELL AEROSHELL W 120 (30 GAL)

DIAGNOSIS

A Recommendation

We advise that you check the efficiency of the lube oil purifier. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of dirt present in the oil.

Fluid Condition

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886512	WC0737258	WC0585910
Sample Date		Client Info		06 Jul 2024	25 Nov 2023	17 Nov 2021
TSN	hrs	Client Info		0	49	458
TSO	hrs	Client Info		75	49	458
Oil Age	hrs	Client Info		24	49	26
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	17	25	10
Chromium	ppm	ASTM D5185(m)	>20	6	12	1
Nickel	ppm	ASTM D5185(m)	>15	2	2	2
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>5	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	14	16	8
Lead	ppm	ASTM D5185(m)	>20000	1275	2034	1301
Copper	ppm	ASTM D5185(m)	>25	11	17	11
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		2	2	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		<1	<1	0
Molybdenum	ppm	ASTM D5185(m)		1	<1	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		5	2	<1
Calcium	ppm	ASTM D5185(m)		5	20	2
Phosphorus	ppm	ASTM D5185(m)		3	4	2
Zinc	ppm	ASTM D5185(m)		3	8	2
Sulfur	ppm	ASTM D5185(m)	5100	3998	3008	3994
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	4 20	18	9
Sodium	ppm	ASTM D5185(m)		3	1	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1

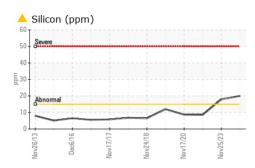


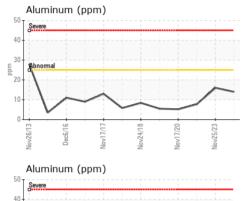
3 ppm 20

10

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OIL ANALYSIS REPORT





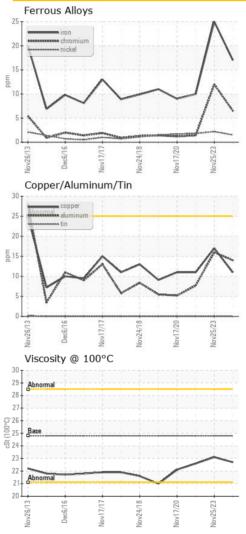
71/71v

ov24/18

lov17/20

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE	VLITE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	24.8	22.7	23.1	22.6

GRAPHS



CANADIAN WARPLANE HERITAGE



F: (905)679-4186

Accredited Laboratory Test Package : AVI 1 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.

: WC0886512

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received

Diagnosed

Tested

: 15 Jul 2024

: 15 Jul 2024

: 16 Jul 2024 - Kevin Marson

Report Id: CANMOU [WCAMIS] 02647998 (Generated: 07/16/2024 09:40:16) Rev: 1

CALA

ISO 17025:2017

Laboratory

Sample No.

Lab Number : 02647998

Unique Number : 5813550

Contact/Location: Jim Van Dyk - CANMOU Page 2 of 2