

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

(C-GEPV) CPAQ.AERO Machine Id [C-GEPV] DIAMOND DA20-C1 806714 Front 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.

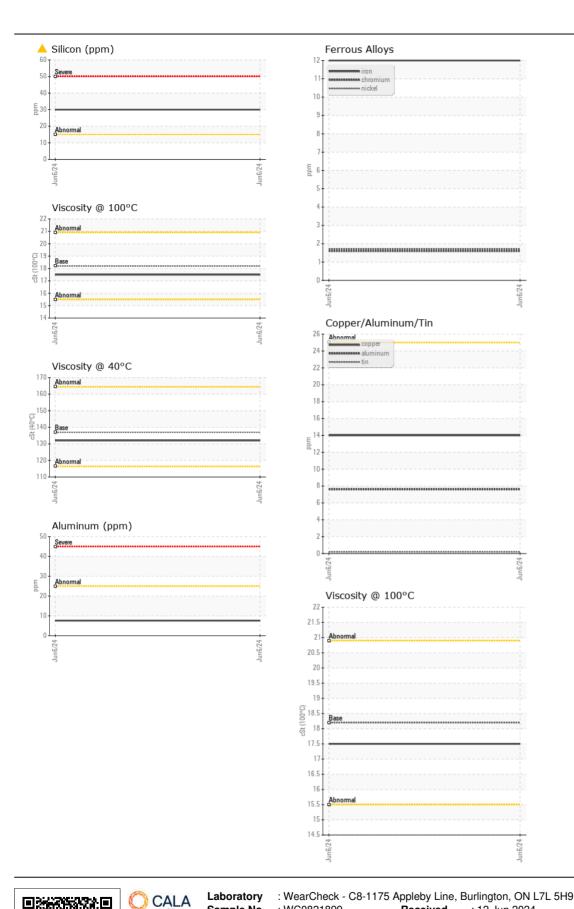
CONTAMINATION

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

FLUID CONDITION

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

Те	est	UOM	Method	Limit/Abn	Current	History1	History2
Sa	mple Number		Client Info		WC0821899		
Sa	ample Date		Client Info		06 Jun 2024		
TS	SN	hrs	Client Info		0		
TS	SO	hrs	Client Info		645		
Oi	l Age	hrs	Client Info		44		
Fil	ter Age	hrs	Client Info		44		
Oi	l Changed		Client Info		N/A		
Fil	ter Changed		Client Info		N/A		
Sa	ample Status				ABNORMAL		
Iro		ppm	ASTM D5185(m)	>90	12		
	nromium	ppm	ASTM D5185(m)	>20	2		
Ni	ckel	ppm	ASTM D5185(m)	>15	2		
	tanium	ppm	ASTM D5185(m)		0		
-	lver	ppm	ASTM D5185(m)	>5	0		
	uminum	ppm	ASTM D5185(m)	>25	8		
-	ad	ppm	ASTM D5185(m)	>20000	4844		
Co	opper	ppm	ASTM D5185(m)	>25	14		
Tir	n	ppm	ASTM D5185(m)	>30	<1		
Va	anadium	ppm	ASTM D5185(m)		0		
W	hite Metal	scalar	Visual*	NONE	NONE		
Ye	ellow Metal	scalar	Visual*	NONE	NONE		
-	licon	ppm	ASTM D5185(m)	>15	▲ 30		
-	otassium	ppm	ASTM D5185(m)	>20	0		
Fu	-		WC Method	>4.0	<1.0		
	ater		WC Method	>0.1	NEG		
	ycol	a a a la v	WC Method		NEG		
Sil		scalar	Visual*	NONE	NONE		
_	ebris	scalar	Visual*	NONE	NONE		
	and/Dirt	scalar	Visual*	NONE	NONE		
	pearance dor	scalar	Visual*	NORML	NORML		
		scalar	Visual*		NORML		
EII	nulsified Water	scalar	Visual*	>0.1	NEG		
Sc	odium	ppm	ASTM D5185(m)		1		
Bo	oron	ppm	ASTM D5185(m)		<1		
Ba	arium	ppm	ASTM D5185(m)		0		
M	olybdenum	ppm	ASTM D5185(m)	5	<1		
	anganese	ppm	ASTM D5185(m)		0		
	agnesium	ppm	ASTM D5185(m)	10	<1		
	alcium	ppm	ASTM D5185(m)	10	2		
	nosphorus	ppm	ASTM D5185(m)	1280	1125		
Zir	•	ppm	ASTM D5185(m)	10	15		
	ılfur	ppm	ASTM D5185(m)	1800	1343		
	sc @ 40°C	cSt	ASTM D7279(m)	137	132		
	sc @ 100°C	cSt	ASTM D7279(m)	18.2	17.5		
	cosity Index (VI)	Scale	ASTM D2270*	148	146		
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HANDFIELD AVIATION 4920 RTE DE L'AEROPORT ST-HUBERT, QC : 13 Jun 2024 - Kevin Marson CA J3Y 8Y9 Contact: Pierre maintenance@handfieldaviation.com T: (450)462-8511 F:

ISO 17025:2017 Accredited Laboratory

Sample No.

Lab Number : 02641387

Unique Number : 5798926

: WC0821899

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test Package : AVI 1 (Additional Tests: FT-IR, KV40, VI)

Validity of results and interpretation are based on the sample and information as supplied.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Received

Diagnosed

Tested

: 12 Jun 2024

: 13 Jun 2024