

OIL ANALYSIS REPORT

(C-FGRC) [C-FGRC] DEHAVILLAND DHC-8-102 PCE-120329

Right Jet Turbine

BP TURBO OIL 2380 (20 QTS)

Sample Rating Trend



	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		WC997218		
	Sample Date		Client Info		14 Oct 2023		
	TSN	hrs	Client Info		62314		
-	TSO	hrs	Client Info		0		
nal	Oil Age	hrs	Client Info		5		
	Oil Changed		Client Info		Changed		
	Sample Status				NORMAL		

WEAR METALS		method				history2
Iron	ppm	ASTM D5185(m)	>8	0		
Chromium	ppm	ASTM D5185(m)	>2	0		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>2	0		
Lead	ppm	ASTM D5185(m)	>3	0		
Copper	ppm	ASTM D5185(m)	>3	<1		
Tin	ppm	ASTM D5185(m)	>2	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		mothod	limit/baco	ourront	hictory1	hictory?

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	0		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	0	0		
Calcium	ppm	ASTM D5185(m)	0	<1		
Phosphorus	ppm	ASTM D5185(m)	2500	2706		
Zinc	ppm	ASTM D5185(m)	0	<1		
Sulfur	ppm	ASTM D5185(m)	0	2		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	<1		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water	%	ASTM D6304*	>0.1	0.038		
ppm Water	ppm	ASTM D6304*	>1000	386.6		

0.50

FLUID DEGRADATION method limit/base

Acid Number (AN) mg KOH/g ASTM D974* 0.43

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal. The directreading & analytical ferrographic results are norm indicating no abnormal wear in the system.

Contaminants

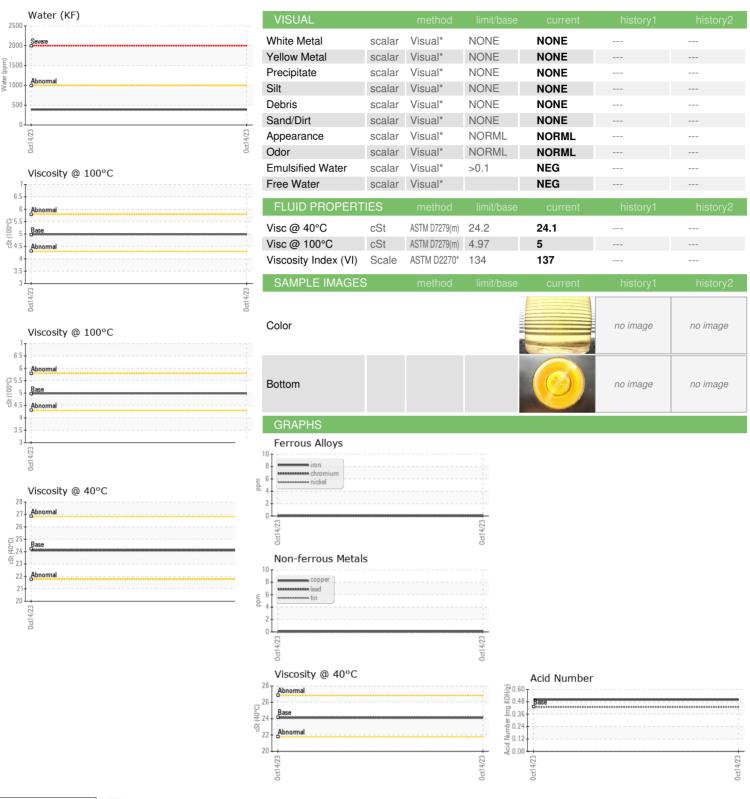
The water content is negligible. There is no indication of any contamination in the oil.

Oil Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WC997218 : 02589982

: 5659048 Test Package : AVI 3

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 18 Oct 2023 Diagnosed

Diagnostician

: 20 Oct 2023 : 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.

PERIMETER AVIATION

626 FERRY ROAD WINNIPEG, MB CA R3H 0T7 Contact: Lindsey Braund

lindsey@denolfaviation.ca

T: F: (204)784-4689

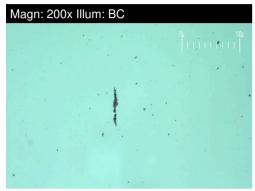


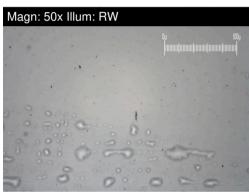
FERROGRAPHY REPORT

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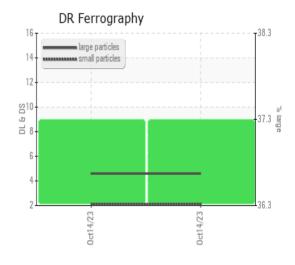




DR-FERROGRAP	ΉY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		4.6		
Small Particles		DR-Ferr*		2.1		
Total Particles		DR-Ferr*	>	6.7		
Large Particles Percentage	%	DR-Ferr*		37.3		
Severity Index		DR-Ferr*		11		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		2		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1		

WEAR

All component wear rates are normal. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system.



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