

OIL ANALYSIS REPORT

(C-FGRC) [C-FGRC] DEHAVILLAND DHC-8-102 PCE-120396

Left Jet Turbine

BP TURBO OIL 2380 (20 QTS)



Sample Rating Trend



DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	h	istory1	
Recommendation	Sample Number		Client Info		WC997219			
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Oct 2023			
Wear	TSN	hrs	Client Info		63213			
All component wear rates are normal. The direct-	TSO	hrs	Client Info		0			
reading & analytical ferrographic results are normal	Oil Age	hrs	Client Info		5			
indicating no abnormal wear in the system.	Oil Changed		Client Info		Changed			

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

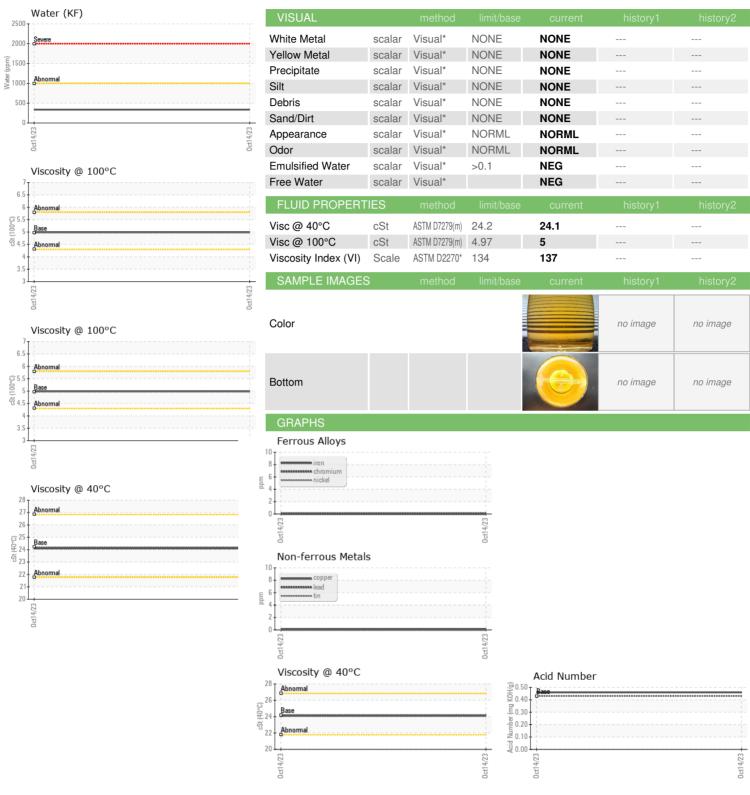
Oil Condition

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

Sample Date		Client Info		14 Oct 2023		
TSN	hrs	Client Info		63213		
TSO	hrs	Client Info		0		
Oil Age	hrs	Client Info		5		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	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		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185(m)	limit/base	current 0	history1	history2
	ppm				,	,
Boron		ASTM D5185(m)	0	0		,
Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	0	0 <1		
Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	0 <1 0		
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0	0 <1 0		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0	0 <1 0 0		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0	0 <1 0 0 0		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 2500	0 <1 0 0 0 0 0 2674		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 2500	0 <1 0 0 0 0 0 2674 <1		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 2500	0 <1 0 0 0 0 0 0 2674 <1 <1		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 2500 0	0 <1 0 0 0 0 0 0 2674 <1 <1 <1		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 2500 0 0	0 <1 0 0 0 0 0 0 2674 <1 <1 <1 current	 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 2500 0 0	0 <1 0 0 0 0 0 0 2674 <1 <1 <1 <1 <1	history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 2500 0 0 limit/base	0	history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 2500 0 0 limit/base >8	0	history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water	ppm	ASTM D5185(m)	0 0 0 0 0 2500 0 0 limit/base >8 >20 >0.1	0 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	history1	history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: WC997219 : 02589983

: 5659049 : AVI 3

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 18 Oct 2023 Received Diagnosed : 20 Oct 2023

> : Kevin Marson Diagnostician

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: Jacob Kan Jacob.Kan@perimeter.ca T: 2(047)838-0000 F: (204)784-4689

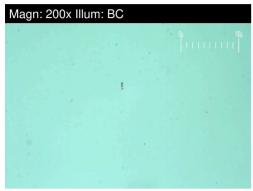


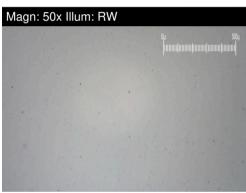
FERROGRAPHY REPORT

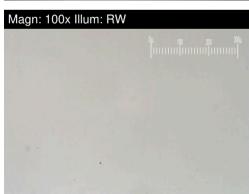
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Left Jet Turbine

BP TURBO OIL 2380 (20 QTS)



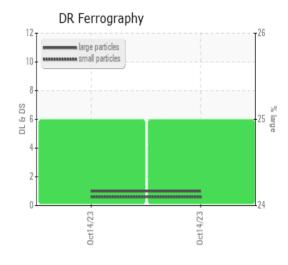




DR-FERROGRAP	ΉY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		1.0		
Small Particles		DR-Ferr*		0.6		
Total Particles		DR-Ferr*	>	1.6		
Large Particles Percentage	%	DR-Ferr*		25		
Severity Index		DR-Ferr*		0		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1		
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*				
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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