

No relevant graphs to display

RECOMMENDATION	PROBLEMATIC TEST RESULTS						
We recommend an early resample to monitor this	Sample Status	MARGINAL NORMAL NORMAL					
condition.	Ferrous Rubbing Scale 0-10 ASTM D7684*	▲ 3 1 1					
	PrtFilter	no image no image					

Customer Id: TRA545RIC Sample No.: WC0632580 Lab Number: 02579352 Test Package: AVI 3



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 <u>gloria.gonzalez@wearcheck.com</u>

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

30 May 2023 Diag: Kevin Marson

22 Jun 2023 Diag: Kevin Marson



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03 May 2023 Diag: Kevin Marson

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view report



OIL ANALYSIS REPORT

Area (C-GSUR) [C-GSUR] DEHAVILLAND DASH-8-100 PCE-120123 Component

Left Jet Turbine

EASTMAN TURBO OIL 2380 (18 LTR)

DIAGNOSIS

A Recommendation

We recommend an early resample to monitor this condition.

📥 Wear

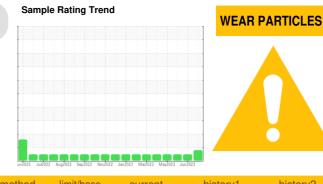
Wear particle analysis indicates that the ferrous rubbing particles are marginal. All other component wear rates are normal.

Contaminants

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

Oil Condition

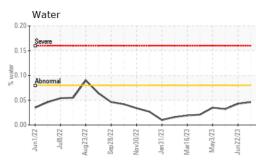
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

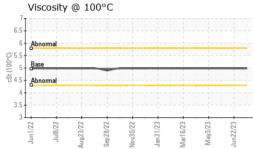


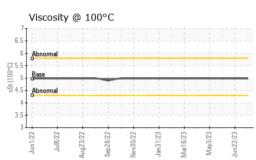
	history2
	C0632574
Sample Date Client Info 29 Aug 2023 22 Jun 2023 30	May 2023
TSN hrs Client Info 24175 23890 238	804
TSO hrs Client Info 1704 1419 133	33
Oil Age hrs Client Info 1704 1419 133	33
Oil Changed Client Info Not Changd Not Changd No	t Changd
	ORMAL
WEAR METALS method limit/base current history1	history2
Iron ppm ASTM D5185(m) >8 0 0	0
Chromium ppm ASTM D5185(m) >2 0 0	0
Nickel ppm ASTM D5185(m) >2 <1 <1	0
Titanium ppm ASTM D5185(m) >2 0 0	0
Silver ppm ASTM D5185(m) >2 0 0	0
Aluminum ppm ASTM D5185(m) >2 0 0	0
	<1
	0
Tin ppm ASTM D5185(m) >2 0 0	0
Antimony ppm ASTM D5185(m) 0 0	<1
	0
	0
	0
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185(m) 0 <1 <1	0
	0
Barium ppm ASTM D5185(m) 0 0 0	
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 0 0	0
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 0	0
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0	0 0 0
Barium ppm ASTM D5185(m) 0 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1	0 0 0 <1
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1	0 0 <1 0
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1	0 0 <1 0 2711
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 0 <1 <1 1 Phosphorus ppm ASTM D5185(m) 2500 2667 2588 Zinc ppm ASTM D5185(m) 0 1 1 Sulfur ppm ASTM D5185(m) 0 1 0	0 0 <1 0 2711 <1
Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1 0 Calcium ppm ASTM D5185(m) 0 <1 <1 Phosphorus ppm ASTM D5185(m) 2500 2667 2588 Zinc ppm ASTM D5185(m) 0 1 1 Sulfur ppm ASTM D5185(m) 0 1 0	0 0 <1 0 2711 <1 0
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1	0 0 <1 0 2711 <1 0 0
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1	0 0 <1 0 2711 <1 0 0 0 history2
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1	0 0 <1 0 2711 <1 0 0 0 history2 <1
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1	0 0 <1 0 2711 <1 0 0 0 history2 <1 <1
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 0 <1 <1 1 Phosphorus ppm ASTM D5185(m) 2500 2667 2588 2588 Zinc ppm ASTM D5185(m) 0 1 1 1 Sulfur ppm ASTM D5185(m) 0 1 0 1 1 Lithium ppm ASTM D5185(m) 0 1 <1 1 Solicon ppm ASTM D5185(m) 0 1 <1 1 Solicon ppm ASTM D5185(m) >8 6 <1 <1 Solicon ppm ASTM D5185(m) >20	0 0 <1 0 2711 <1 0 0 0 history2 <1 <1 0
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1	0 0 <1 0 2711 <1 0 0 0 history2 <1 <1 0 0 0.032

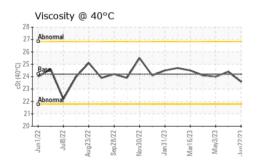


OIL ANALYSIS REPORT





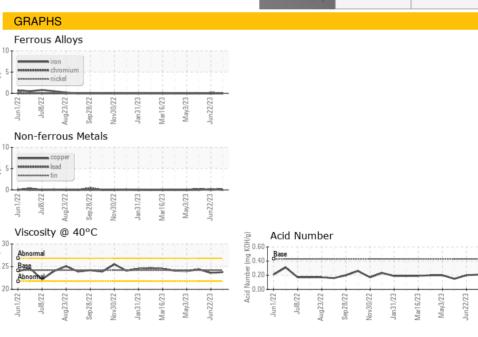




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.08	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	24.2	23.8	23.6	24.4
Visc @ 100°C	cSt	ASTM D7279(m)	4.97	5	5	5
Viscosity Index (VI)	Scale	ASTM D2270*	134	141	143	134
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom						

PrtFilter

30 cSt (40°C)



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 TRANSPORT CANADA AIRCRAFT SERVICES Laboratory CALA Sample No. : WC0632580 Received : 30 Aug 2023 MILLION AIR FBO, 5455-G AIRPORT ROAD SOUTH Lab Number : 02579352 Diagnosed : 07 Sep 2023 RICHMOND, BC ISO 17025:2017 Accredited Laboratory : 5632412 Diagnostician : Kevin Marson CA V7B 1B5 Unique Number Test Package : AVI 3 (Additional Tests: Bottom, BottomAnalysis, FilterPatch) Contact: Robert Copeland To discuss this sample report, contact Customer Service at 1-800-268-2131. robert.copeland@tc.gc.ca Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: Validity of results and interpretation are based on the sample and information as supplied. F:

no image

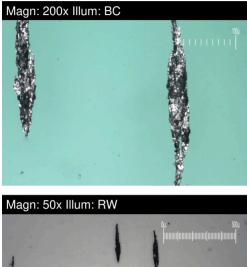
no image

FERROGRAPHY REPORT

Area (C-GSUR) Machine Id [C-GSUR] DEHAVILLAND DASH-8-100 PCE-120123

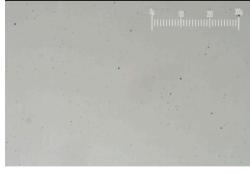
Left Jet Turbine

EASTMAN TURBO OIL 2380 (18 LTR)





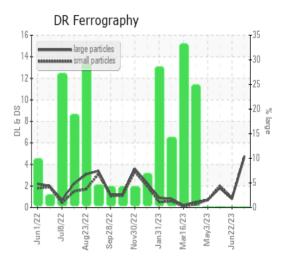
Magn: 100x Illum: RW



DR-FERROGRAP	PHY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		4.6	0.8	1.8
Small Particles		DR-Ferr*		4.7	0.9	2.0
Total Particles		DR-Ferr*	>	9.3	1.7	3.8
Large Particles Percentage	%	DR-Ferr*		0	0	0
Severity Index		DR-Ferr*		0	0	0
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		a 3	1	1
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1	1	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	1	1
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1	1	1

WEAR

Wear particle analysis indicates that the ferrous rubbing particles are marginal. All other component wear rates are normal.



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