

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



Machine Id

# [C-GGTR] DEHAVILLAND DHC-8-402 C-GGTR

Right Jet Turbine

{not provided} (--- GAL)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal. The ferrography 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.

## **Oil Condition**

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

				Jun 2024			
CAMPLE INCODE	MATION	اه ماله میر	l::		المستعددات	۰ سماما	
SAMPLE INFOR	MATION		limit/base		history1	history2	
Sample Number		Client Info		WC0954078			
Sample Date		Client Info		13 Jun 2024			
TSN .	hrs	Client Info		0			
rso	hrs	Client Info		0			
Oil Age	hrs	Client Info		0			
Oil Changed		Client Info		N/A			
Sample Status				NORMAL			
WEAR METALS		method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185(m)	>8	0			
Chromium	ppm	ASTM D5185(m)	>2	0			
Nickel	ppm	ASTM D5185(m)	>2	0			
Γitanium	ppm	ASTM D5185(m)	>2	0			
Silver	ppm	ASTM D5185(m)	>2	0			
Aluminum	ppm	ASTM D5185(m)	>2	0			
_ead	ppm	ASTM D5185(m)	>3	0			
Copper	ppm	ASTM D5185(m)	>3	0			
in	ppm	ASTM D5185(m)	>2	0			
Antimony	ppm	ASTM D5185(m)		0			
/anadium	ppm	ASTM D5185(m)		0			
Beryllium	ppm	ASTM D5185(m)		0			
Cadmium	ppm	ASTM D5185(m)		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<1			
Barium	ppm	ASTM D5185(m)		0			
Molybdenum	ppm	ASTM D5185(m)		0			
Manganese	ppm	ASTM D5185(m)		0			
Magnesium	ppm	ASTM D5185(m)		<1			
Calcium	ppm	ASTM D5185(m)		0			
Phosphorus	ppm	ASTM D5185(m)		2633			
Zinc	ppm	ASTM D5185(m)		<1			
Sulfur	ppm	ASTM D5185(m)		5			
_ithium	ppm	ASTM D5185(m)		<1			
CONTAMINANTS	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>8	3			
Sodium	ppm	ASTM D5185(m)		<1			
Potassium	ppm	ASTM D5185(m)	>20	0			
Vater	%	ASTM D6304*	>0.1	0.076			
opm Water	ppm	ASTM D6304*	>1000	761			
FLUID DEGRADA	ATION_	method	limit/base	current	history1	history2	

0.35

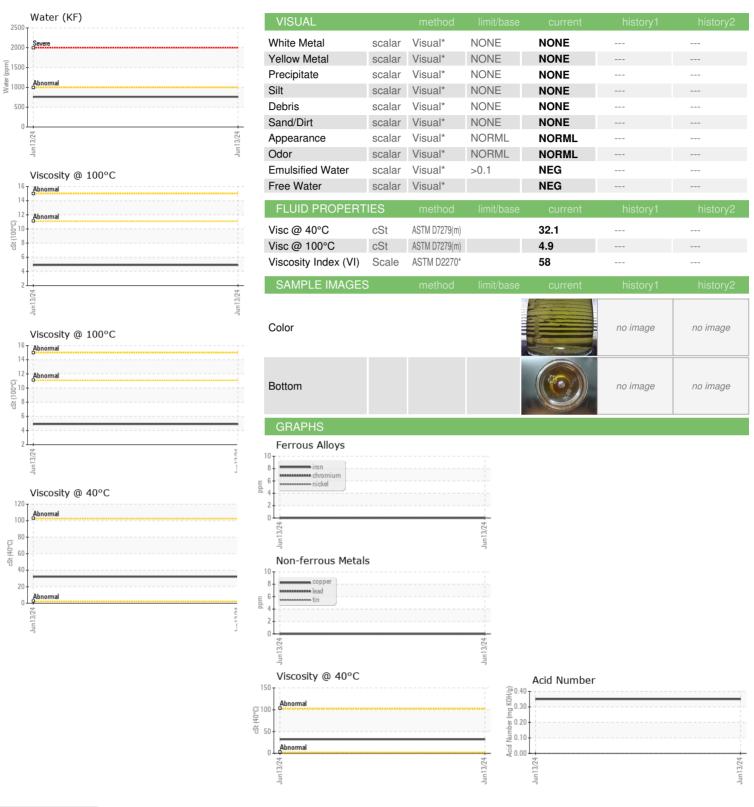
Acid Number (AN)

mg KOH/g ASTM D974\*

Contact/Location: Mark Rinaldi - SMABRI



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5799498

: WC0954078 : 02641959

Test Package : AVI 3

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 14 Jun 2024 **Tested** Diagnosed

: 17 Jun 2024 : 17 Jun 2024 - 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.

**SMART AVIATION** 775 COUNTY ROAD 64 BRIGHTON, ON CA K0K 1H0

Contact: Mark Rinaldi mark.rinaldi@smartams.ca

T: (343)645-4361

Report Id: SMABRI [WCAMIS] 02641959 (Generated: 06/17/2024 15:27:11) Rev: 1

Contact/Location: Mark Rinaldi - SMABRI

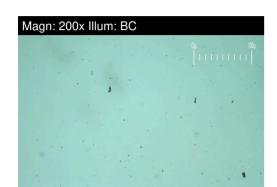


# **FERROGRAPHY REPORT**

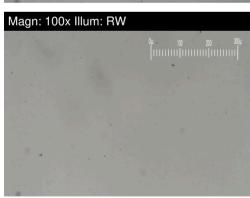
Machine Id

# [C-GGTR] DEHAVILLAND DHC-8-402 C-GGTR

Right Jet Turbine
Fluid
{not provided} (--- GAL)



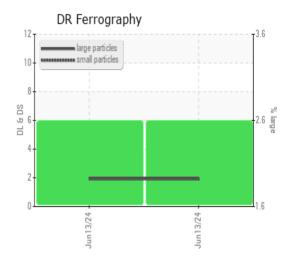




DR-FERROGRAP	ΉY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		2.0		
Small Particles		DR-Ferr*		1.9		
Total Particles		DR-Ferr*	>	3.9		
Large Particles Percentage	%	DR-Ferr*		2.6		
Severity Index		DR-Ferr*		0		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	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*				
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 ferrography results are normal indicating no abnormal wear in the system.



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