

PROBLEM SUMMARY

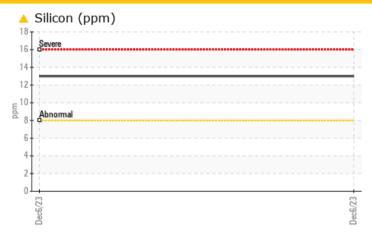
(C-GWUG) Machine Id [C-GWUG] BOMBARDIER DASH 8 Q400 PCE-FA1009

Right Jet Turbine

EASTMAN TURBO OIL 2380 (--- GAL)

Sample Rating Trend DIRT Director23

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL			
Silicon	ppm	ASTM D5185(m)	>8	13			

Customer Id: SKYECH
Sample No.: WC0853660
Lab Number: 02601532
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
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.		
Check Seals			?	Check seals and/or filters for points of contaminant entry.		

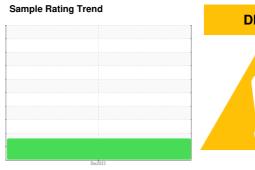


OIL ANALYSIS REPORT

(C-GWUG) Machine Id [C-GWUG] BOMBARDIER DASH 8 Q400 PCE-FA1009

Right Jet Turbine

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DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

Contaminants

Elemental level of silicon (Si) above normal indicating ingress of seal material and/or dirt. The water content is negligible.

Oil Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMA	NOITA	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853660		
Sample Date		Client Info		06 Dec 2023		
TSN I	hrs	Client Info		0		
TSO I	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
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	0		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>2	<1		
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
Boron	ppm	ASTM D5185(m)	0	<1		
Barium	ppm	ASTM D5185(m)	0	<1		
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	0		
Phosphorus	ppm	ASTM D5185(m)	2500	2602		
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	<u> </u>		
	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
	%	ASTM D6304*	>0.1	0.013		
ppm Water	ppm	ASTM D6304*	>1000	132		
ELLID DECDADAT						
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2

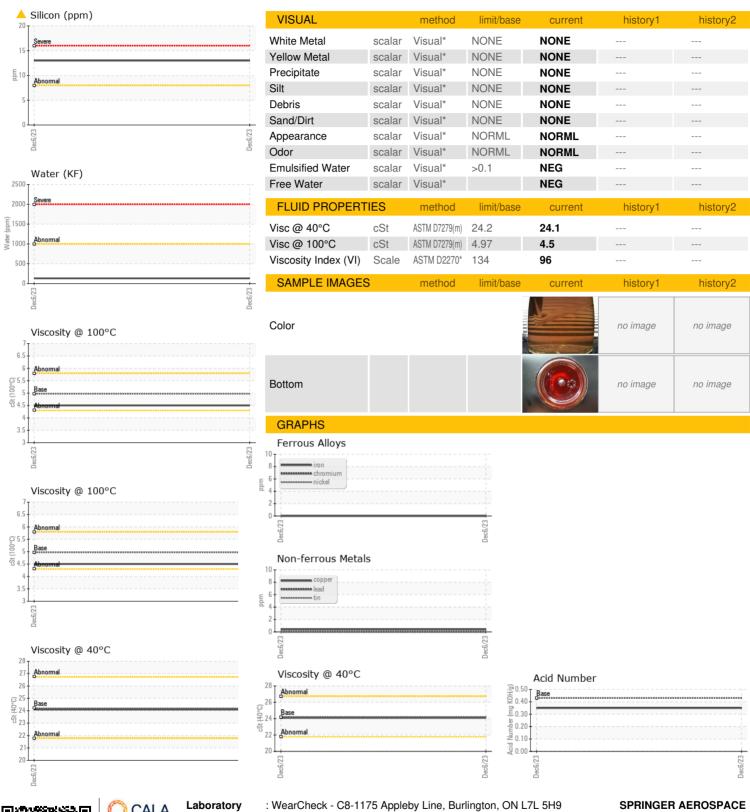
Acid Number (AN)

mg KOH/g ASTM D974* 0.43

0.35



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: WC0853660 : 02601532 : 5694617 : AVI 3

Received Diagnosed Diagnostician

: 07 Dec 2023 : 09 Dec 2023 : Kevin Marson

377 LAKEVIEW, P.O.BOX 269 ECHO BAY, ON

CA POS 1C0 Contact: Robert Hope robert@springeraerospace.com

> T: (705)248-2158 F: (705)248-3397

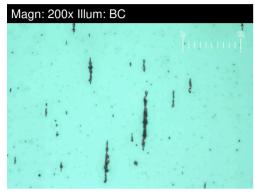


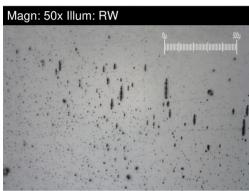
FERROGRAPHY REPORT

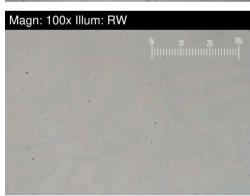
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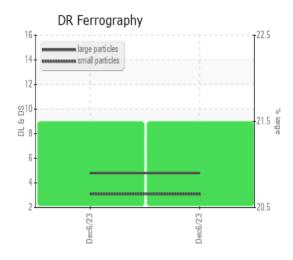




DR-FERROGRAP	ΉY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		4.8		
Small Particles		DR-Ferr*		3.1		
Total Particles		DR-Ferr*	>	7.9		
Large Particles Percentage	%	DR-Ferr*		21.5		
Severity Index		DR-Ferr*		8		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		3		
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*		1		
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*		2		

WEAR

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.



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