

OIL ANALYSIS REPORT

Area (N4407M) [N4407M] BOMBARDIER DHC-8-400 PCE-FA0929

Component Left Jet Turbine

MOBIL JET OIL II (25 LTR)

Recommendation

Resample at the next service interval to monitor.

Wear

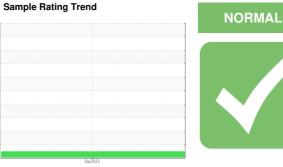
All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

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.

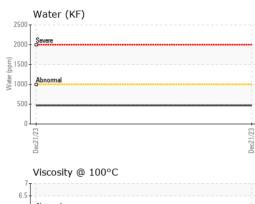




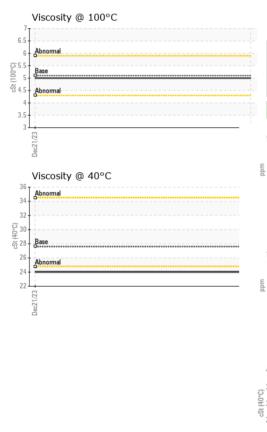
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0638687		
Sample Date		Client Info		21 Dec 2023		
TSN	hrs	Client Info		16892		
TSO	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
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	0		
Aluminum	ppm	ASTM D5185(m)	>2	<1		
Lead	ppm	ASTM D5185(m)	>3	0		
Copper	ppm	ASTM D5185(m)	>3	0		
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)		<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)		2639		
Zinc	ppm	ASTM D5185(m)		<1		
Sulfur	ppm	ASTM D5185(m)		0		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	0		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>.1	0.046		
ppm Water	ppm	ASTM D6304*	>1000	468		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.03	0.40		



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White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NONE NONE NONE NORML	NONE NONE NONE VLITE NONE	 	
Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NORML	NONE NONE VLITE		
Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NORML	NONE VLITE		
Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual*	NONE NORML	VLITE		
Sand/Dirt Appearance Odor	scalar scalar scalar scalar	Visual* Visual* Visual*	NONE NORML			
Appearance Odor	scalar scalar scalar	Visual* Visual*	NORML	NONE		
Odor	scalar scalar	Visual*				
	scalar			NORML		
		Vieuel*	NORML	NORML		
Emulsified Water	scalar	visual	>.1	NEG		
Free Water	ooala	Visual*		NEG		
FLUID PROPERTI	ES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	27.6	24.0		
Visc @ 100°C	cSt	ASTM D7279(m)		5		
Viscosity Index (VI)	Scale	ASTM D2270*		138		
SAMPLE IMAGES			limit/beee		bietorut	biotom 0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						
Ferrous Alloys						
iron 6 4 2 0 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Dec21/23			
Non-ferrous Metals			Dec21/23			
Viscosity @ 40°C				Acid Number		
35 Abnormal			(D)3.00 Bull (D) Bull	Severe Abnormal		
30 Base			ළ 2.00 ම	+ 0		-
25 - Abnormal			g 1.00			
20			00.0 Acid	Base		
Dec21/23			Dec21/23	Dec21/23		Dec21/23
WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WC0638687 Recieved : 09 Jan 2024 02607489 Diagnosed : 17 Jan 2024 5708575 Diagnostician : Kevin Marson AVI 3					SMART AVIATION 775 COUNTY ROAD 64 BRIGHTON, ON CA KOK 1H0 Contact: Naji Karroum	

Test Package : AVI 3 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.

T: (647)215-1688 F:

naji.karroum@smartams.ca

CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number

Unique Number

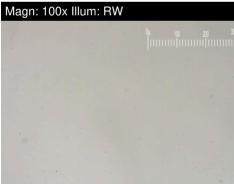
FERROGRAPHY REPORT

Area (N4407M) Machine Id [N4407M] BOMBARDIER DHC-8-400 PCE-FA0929 Component

Left Jet Turbine Fluid MOBIL JET OIL II (25 LTR)

Magn: 200x Illum: BC

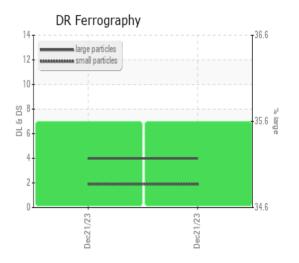




DR-FERROGRAF	PHY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		4.0		
Small Particles		DR-Ferr*		1.9		
Total Particles		DR-Ferr*	>	5.9		
Large Particles Percentage	%	DR-Ferr*		35.6		
Severity Index		DR-Ferr*		8		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous 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*				
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1		

WEAF

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



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