

OIL ANALYSIS REPORT

Nonferrous Other

Sand/Dirt

Fibres

Other

Spheres

Patch Weight

Scale 0-10 ASTM D7684*

ASTM D7684*

Sample Rating Trend



FA0876 DIAGNOSTIC LAYER (S/N 4391)

Left Jet Turbine

NOT GIVEN (--- GAL)

Recommendation

A particle from a chip detector was submitted for analysis. The particle was digested and analysed by ICP Spectroscopy.

Particle form is chunk. Particle size is 1000µm x 500µm. The most likely alloy match is Low alloy steel 92XX (92XX).

Contamination

{not applicable}

Fluid Condition

{not applicable}

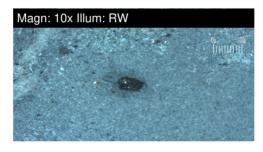
	Aug2023					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP		
Sample Date		Client Info		29 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	420		
Chromium	ppm	ASTM D5185(m)	>2	1		
Nickel	ppm	ASTM D5185(m)	>2	3		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>2	2		
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)		<1		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*				
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*				

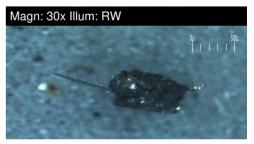
6.0

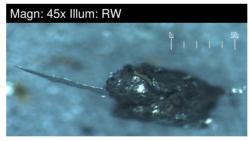


OIL ANALYSIS REPORT

ADDITIVES		method	limit/base	current	history1	history2
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese	ppm	ASTM D5185(m)		3		
Magnesium	ppm	ASTM D5185(m)		1		
Calcium	ppm	ASTM D5185(m)		35		
Zinc	ppm	ASTM D5185(m)		0		
Sulfur	ppm	ASTM D5185(m)		63		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	6		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image









CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: PP : 02579539 Unique Number : 5632599

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 30 Aug 2023 : 01 Sep 2023 Diagnostician : Bill Quesnel

Test Package : FLTRO (Additional Tests: ICP, ICP-DIGEST, PQ)

PORTER AIRLINES INC BILLY BISHOP TORONTO CITY AIRPORT, HANGAR 5 TORONTO, ON CA M5V 1A1

Contact: Jennifer Wagner jennifer.wagner@flyporter.com T: (416)203-8100

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.

F: (416)203-9198

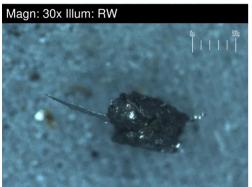


FILTER REPORT

FA0876 DIAGNOSTIC LAYER (S/N 4391)

Component
Left Jet Turbine
Fluid
NOT GIVEN (--- GAL)







FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*				
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*				
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*				
Patch Weight	mg	ASTM D7684*		6.0		

WEAR

Particle form is chunk. Particle size is $1000\mu m \times 500\mu m$. The most likely alloy match is Low alloy steel 92XX (92XX).

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