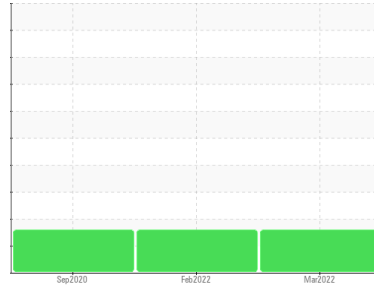




# PROBLEM SUMMARY

Area  
**(C-FXWT)**  
 Machine Id  
**BOMBARDIER 5824 L/T**  
 Component  
**Chip Detector Jet Turbine**  
 Fluid  
**SHELL AEROSHELL 500 (7 QTS)**

Sample Rating Trend



WEAR PARTICLES



## COMPONENT CONDITION SUMMARY

No relevant graphs to display

## RECOMMENDATION

We advise that you check for visible metal particles in the oil. We advise that you perform a compression test, and a borescope exam. We recommend that you drain the oil from the component if this has not already been done. We recommend a resample in 25 hours to monitor this sample.

## PROBLEMATIC TEST RESULTS

Sample Status	Scale 0-10	ASTM D7684	ABNORMAL	ABNORMAL	ABNORMAL
Ferrous Rolling	3	3	3	3	3

Customer Id: CUSANY  
 Sample No.: WC1234567  
 Lab Number: 01234567  
 Test Package: FLTRO



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Bill Quesnel CLS, OMA II, MLA-III, LLA-I +1  
 (905)569-8600 x4641  
[Bill.Quesnel@wearcheck.com](mailto:Bill.Quesnel@wearcheck.com)

To change component or sample information:  
 Gloria Gonzalez +1 (905)569-8600 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Monitor	---	---	?	We advise that you perform a compression test, and a borescope exam.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend a resample in 25 hours to monitor this sample.
Check For Visual Metal	---	---	?	We advise that you check for visible metal particles in the oil.

## HISTORICAL DIAGNOSIS

### 28 Feb 2022 Diag: Bill Quesnel

#### WEAR PARTICLES



We advise that you check for visible metal particles in the oil. We advise that you perform a compression test, and a borescope exam. We recommend that you drain the oil from the component if this has not already been done. We recommend a resample in 25 hours to monitor this sample. One ferrous wear particle, measuring 3.3mm by 1.4mm was submitted (form platelet) for analysis from a chip detector. The particle was digested and analysed by ICP Spectroscopy. Closest alloy match is AMS 5510 or AMS 5512 Austenitic Low Alloy Stainless Steel. {not applicable} {not applicable}

view report



### 06 Sep 2020 Diag: Bill Quesnel

#### WEAR PARTICLES



We advise that you check for visible metal particles in the oil. We advise that you perform a compression test, and a borescope exam. We recommend that you drain the oil from the component if this has not already been done. We recommend a resample in 25 hours to monitor this sample. One ferrous wear particle, measuring 2.1mm by 0.5mm was submitted (form platelet) for analysis from a chip detector. The particle was digested and analysed by ICP Spectroscopy. Closest alloy match is AMS 5510 or AMS 5512 Austenitic Low Alloy Stainless Steel. {not applicable} {not applicable}

view report

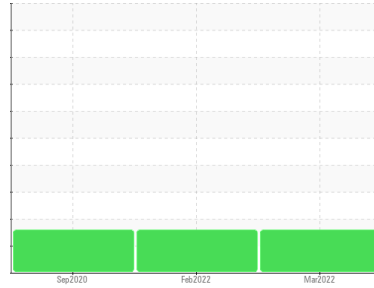




# OIL ANALYSIS REPORT

## Sample Rating Trend

WEAR PARTICLES



Area  
**(C-FXWT)**  
Machine Id  
**BOMBARDIER 5824 L/T**  
Component  
**Chip Detector Jet Turbine**  
Fluid  
**SHELL AEROSHELL 500 (7 QTS)**

### DIAGNOSIS

#### Recommendation

We advise that you check for visible metal particles in the oil. We advise that you perform a compression test, and a borescope exam. We recommend that you drain the oil from the component if this has not already been done. We recommend a resample in 25 hours to monitor this sample.

#### Wear

One ferrous wear particle, measuring 5.9mm by 0.5mm was submitted (form platelet) for analysis from a chip detector. The particle was digested and analysed by ICP Spectroscopy. Closest alloy match is AMS 5510 or AMS 5512 Austenitic Low Alloy Stainless Steel.

#### Contamination

{not applicable}

#### Fluid Condition

{not applicable}

### SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			<b>PP</b>	PP	PP
Sample Date			<b>14 Mar 2022</b>	28 Feb 2022	06 Sep 2020
Machine Age	hrs		<b>3687</b>	3675	3314
Oil Age	hrs		<b>0</b>	0	0
Oil Changed			<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185(m)	>8	<b>61</b>	57	18
Chromium	ppm ASTM D5185(m)	>2	<b>15</b>	14	4
Nickel	ppm ASTM D5185(m)	>2	<b>6</b>	5	2
Titanium	ppm ASTM D5185(m)	>2	<b>0</b>	0	---
Copper	ppm ASTM D5185(m)	>3	---	---	<1
Vanadium	ppm ASTM D5185(m)		---	---	<1

### FERROGRAPHY

	method	limit/base	current	history 1	history 2
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		<b>▲ 3</b>	▲ 3	▲ 3
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		<b>N/A</b>	N/A	N/A

### ADDITIVES

	method	limit/base	current	history 1	history 2
Molybdenum	ppm ASTM D5185(m)	0	---	---	<1
Manganese	ppm ASTM D5185(m)	0	<b>&lt;1</b>	<1	2
Sulfur	ppm ASTM D5185(m)	0	<b>2</b>	2	---

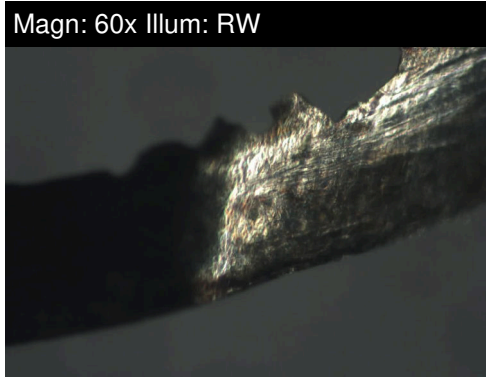
### CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185(m)	>8	<b>&lt;1</b>	<1	<1

# OIL ANALYSIS REPORT

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS

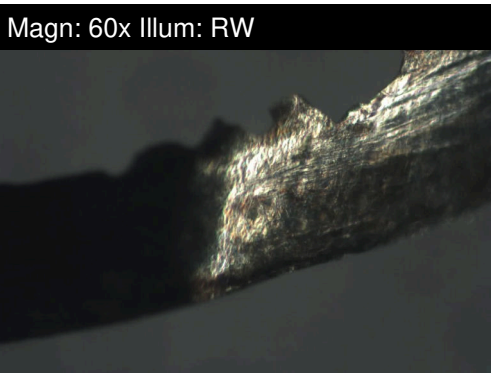


**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC1234567      **Received** : 16 Mar 2022  
**Lab Number** : 01234567      **Diagnosed** : 18 Mar 2022  
**Unique Number** : 12345678      **Diagnostician** : Bill Quesnel  
**Test Package** : FLTRO ( Additional Tests: ICP, ICP-Digest, PQ )  
*To discuss this sample report, contact Customer Service at 1-800-268-2131.*  
*(m) Denotes a modified test method, (e) Denotes a test conducted using an external laboratory.*

**Cusany Logistics Inc.**  
 1212 Industrial Place  
 Centerville, OH  
 USA 75900  
 Contact: Jim Leduc  
[jim.leduc@cusanylogisticsinc.com](mailto:jim.leduc@cusanylogisticsinc.com)  
 T: (305)555-1212  
 F: (305)555-1222

# FILTER REPORT

Area  
**(C-FXWT)**  
 Machine Id  
**BOMBARDIER 5824 L/T**  
 Component  
**Chip Detector Jet Turbine**  
 Fluid  
**SHELL AEROSHELL 500 (7 QTS)**



FERROGRAPHY		method	limit/base	current	history 1	history 2
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		▲ 3	▲ 3	▲ 3
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		N/A	N/A	N/A

### WEAR

One ferrous wear particle, measuring 5.9mm by 0.5mm was submitted (from platelet) for analysis from a chip detector. The particle was digested and analysed by ICP Spectroscopy. Closest alloy match is AMS 5510 or AMS 5512 Austenitic Low Alloy Stainless Steel.

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