



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR PARTICLES

Area
(C-GZQK)
 Machine Id
[C-GZQK] TAIL #923 BC3
 Component
Chip Detector Jet Turbine
 Fluid
{not provided} (--- GAL)



DIAGNOSIS

Recommendation

We recommend a resample in 25 hours to monitor this sample.

Wear

One particle was submitted from a chip detector for analysis. The particle is strongly magnetic and measures 7.20mm x 0.14mm. The particle was oxidized, and digestion of the particle was difficult. ICP Spectrometric analysis indicates the particle is likely nickel. Form is stringer.

Contamination

{not applicable}

Fluid Condition

{not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PP	---	---
Sample Date	Client Info		21 Jan 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >8	218	---	---
Chromium	ppm	ASTM D5185(m) >2	0	---	---
Nickel	ppm	ASTM D5185(m) >2	103	---	---
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	2	---	---
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*	▲ 2		
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*	NA	---	---



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ADDITIVES	method	limit/base	current	history1	history2
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m)	1	---	---
Calcium	ppm	ASTM D5185(m)	48	---	---
Zinc	ppm	ASTM D5185(m)	2	---	---
Sulfur	ppm	ASTM D5185(m)	71	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

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
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP **Recieved** : 22 Jan 2024
Lab Number : 02610493 **Diagnosed** : 22 Jan 2024
Unique Number : 5711579 **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: Jason Thibault
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 T: (647)454-7933
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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.



FILTER REPORT

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