



PROBLEM SUMMARY

Sample Rating Trend



WEAR PARTICLES



Machine Id
PCE-FA0624 R/H (S/N 818)
 Component
Chip Detector Jet Turbine
 Fluid
NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

Material was submitted from a chip detector for analysis. A single large wear particle (size 1000µm x 500µm, form platelet / rolling fatigue) was digested and analysed by ICP Spectroscopy. The most likely alloy match is Case Hardening Steel (AMS 6265). We recommend that you resample in 25 hours to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			MARGINAL	---	---
Ferrous Rolling	Scale 0-10	ASTM D7684*	▲ 2		

Customer Id: PORTORTOR
Sample No.: PP
Lab Number: 02578952
Test Package: FLTRO



To manage this report scan the QR code

To discuss the diagnosis or test data:
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 (289)291-4641 x4641
Bill.Quesnel@wearcheck.com

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR PARTICLES



Machine Id
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DIAGNOSIS

Recommendation

Material was submitted from a chip detector for analysis. A single large wear particle (size 1000µm x 500µm, form platelet / rolling fatigue) was digested and analysed by ICP Spectroscopy. The most likely alloy match is Case Hardening Steel (AMS 6265). We recommend that you resample in 25 hours to monitor.

Wear

Wear particle analysis indicates that the ferrous rolling particles are marginal.

Contamination

There is no indication of any contamination in the component(unconfirmed).

Fluid Condition

{not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PP	---	---
Sample Date	Client Info		27 Aug 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			MARGINAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >8	214	---	---
Chromium	ppm	ASTM D5185(m) >2	5	---	---
Nickel	ppm	ASTM D5185(m) >2	15	---	---
Titanium	ppm	ASTM D5185(m) >2	0	---	---
Silver	ppm	ASTM D5185(m) >2	4	---	---
Aluminum	ppm	ASTM D5185(m) >2	22	---	---
Lead	ppm	ASTM D5185(m) >3	2	---	---
Copper	ppm	ASTM D5185(m) >3	4	---	---
Tin	ppm	ASTM D5185(m) >2	6	---	---
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*	2		
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*	1		
Nonferrous Sliding	Scale 0-10	ASTM D7684*	1		
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*	2		
Fibres	Scale 0-10	ASTM D7684*	2		
Spheres	Scale 0-10	ASTM D7684*			
Other	Scale 0-10	ASTM D7684*			
Patch Weight	mg	ASTM D7684*	79	---	---

ADDITIVES

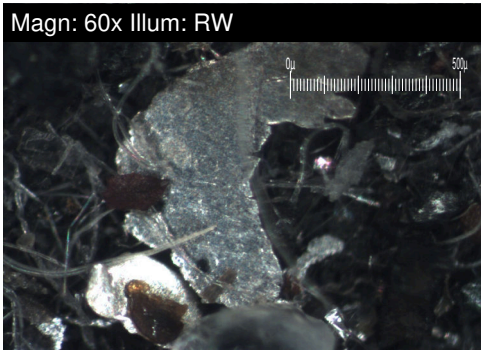
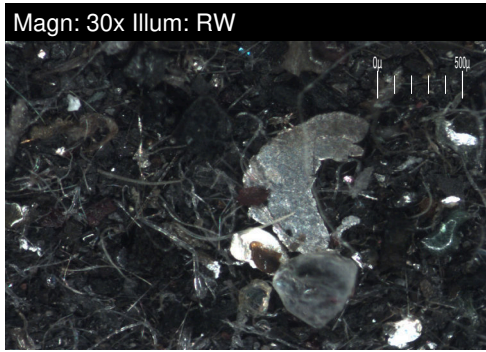
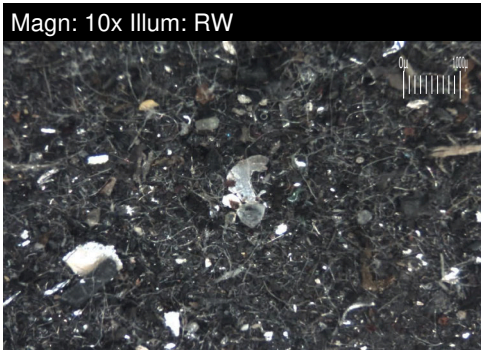
	method	limit/base	current	history1	history2
Molybdenum	ppm	ASTM D5185(m)	<1	---	---
Manganese	ppm	ASTM D5185(m)	2	---	---
Magnesium	ppm	ASTM D5185(m)	18	---	---
Zinc	ppm	ASTM D5185(m)	7	---	---
Sulfur	ppm	ASTM D5185(m)	94	---	---

OIL ANALYSIS REPORT

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >8	8	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



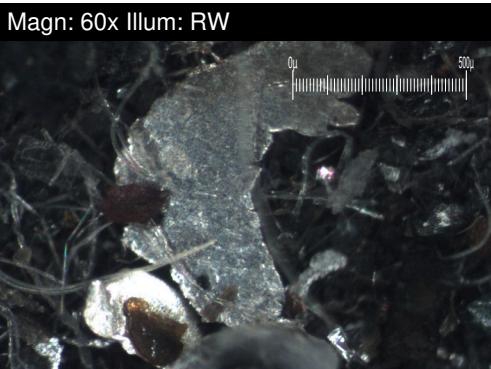
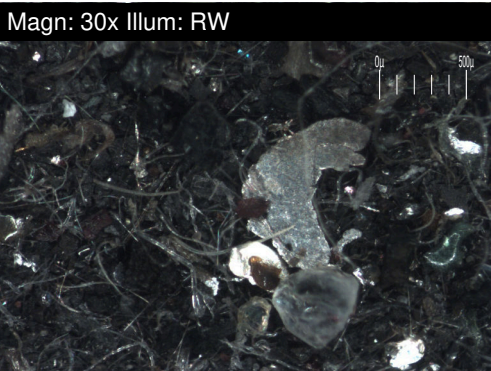
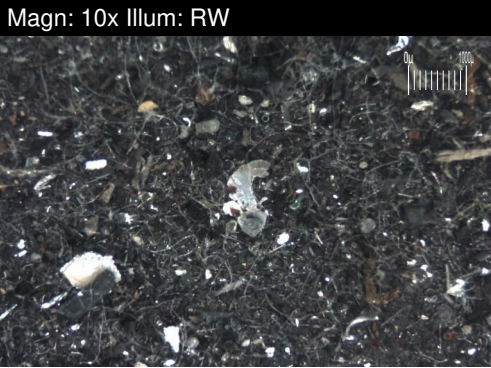
Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP **Received** : 28 Aug 2023
Lab Number : **02578952** **Diagnosed** : 29 Aug 2023
Unique Number : 5632012 **Diagnostician** : Bill Quesnel
Test Package : FLTRO (Additional Tests: ICP, ICP-DIGEST, PQ)

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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

Machine Id
PCE-FA0624 R/H (S/N 818)
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Chip Detector Jet Turbine
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Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		▲ 2		
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*		■ 1		
Nonferrous Sliding	Scale 0-10	ASTM D7684*		■ 1		
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*		■ 2		
Fibres	Scale 0-10	ASTM D7684*		■ 2		
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*				
Patch Weight	mg	ASTM D7684*		79	---	---

WEAR

Wear particle analysis indicates that the ferrous rolling particles are marginal.

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