

# FILTER DEBRIS ANALYSIS

Sample Rating Trend



Machine Id  
**Adhoc – MPG (Port) Ratchet System Filter (S/N XX-80201)**  
Component  
**Filter**  
Fluid  
**PETRO CANADA TURBOFLO EP 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

A sample was submitted of a sintered metal piece inside of hose adapter. Filter patch is non-ferrous, made note of potential varnish, performed toluene drop test - result was negative. Material appears to be dirt and wear particles.

### Wear Particles

The filter contained no appreciable wear particles. All filter wear levels are normal.

### Contaminants

Wear particle analysis indicates that the sand/dirt and other {unknown} particles are abnormal.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC</b>	---	---
Sample Date	Client Info	<b>27 Jan 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## CONTAMINATION

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

## FILTER WEAR PARTICLES

method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10 ASTM D7684*	<b>1</b>		
Ferrous Sliding	Scale 0-10 ASTM D7684*	<b>1</b>		
Ferrous Cutting	Scale 0-10 ASTM D7684*			
Ferrous Rolling	Scale 0-10 ASTM D7684*	<b>1</b>		
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*	<b>1</b>		
Nonferrous Other	Scale 0-10 ASTM D7684*			

## FILTER CONTAMINANTS

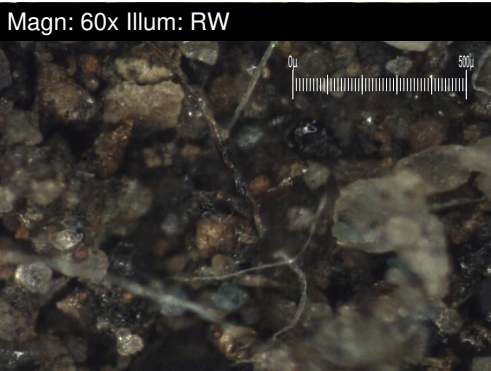
method	limit/base	current	history1	history2
Sand/Dirt	Scale 0-10 ASTM D7684*	<b>5</b>		
Fibres	Scale 0-10 ASTM D7684*	<b>2</b>		
Spheres	Scale 0-10 ASTM D7684*			
Other	Scale 0-10 ASTM D7684*	<b>5</b>		
Patch Weight	mg ASTM D7684*	<b>93</b>	---	---

## SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			<i>no image</i>	<i>no image</i>
Bottom			<i>no image</i>	<i>no image</i>

# FILTER REPORT

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## WEAR

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