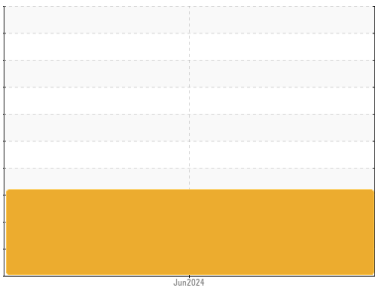
FILTER DEBRIS ANALYSIS

Sample Rating Trend



WEAR PARTICLES

Machine Id
FORD 24112-A
Component
Filter
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation
We understand that this sample is for warranty/insurance purposes. Diagnostician's Note: The filter debris was normal except for a few large aluminum sliding wear particles (likely bearing wear). The large amount of debris in the filter is the filter media. Engine fire suspected due to burnt cellulose filter media and water present in filter.

Wear Particles
Wear particle analysis indicates that the patch weight particles are abnormal. Wear particle analysis indicates that the nonferrous rolling particles are marginal. Bearing wear is indicated. One large non-ferrous platelet measuring approximately 2.0mm x 1.2mm was found in the filter. Platelet tests positive for aluminum via wet chemistry.

Contaminants
The filter contained only normal levels of contaminants, and debris. All filter contaminant levels are normal.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0959457**	---	---
Sample Date		Client Info		**24 Jun 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		**NEG**	---	---

FILTER WEAR PARTICLES		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		**2**		
Ferrous Sliding	Scale 0-10	ASTM D7684*		**1**		
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		**1**		
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*		**2**		
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*		**2**		
Nonferrous Other	Scale 0-10	ASTM D7684*				

FILTER CONTAMINANTS		method	limit/base	current	history1	history2
Sand/Dirt	Scale 0-10	ASTM D7684*		**2**		
Fibres	Scale 0-10	ASTM D7684*		**1**		
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		**6**		
Patch Weight	mg	ASTM D7684*		**591**	---	---

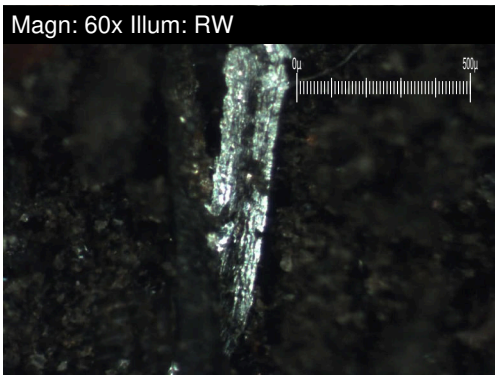
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

FILTER REPORT

Machine Id
FORD 24112-A
Component
Filter
Fluid
{not provided} (--- GAL)

Magn: 10x Illum: RW

Magn: 60x Illum: RW



WEAR

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