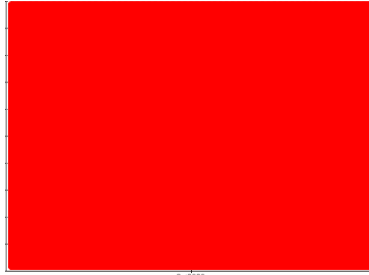




OIL ANALYSIS REPORT

Sample Rating Trend

WEAR PARTICLES



Machine Id
102323
Component
Fluid
Fluid
NOT GIVEN (--- QTS)

DIAGNOSIS



Recommendation

I used a scraper to pull some of the debris out of the bottle and smeared it on a patch, so please disregard the drag marks on the patch itself when reviewing the images. The debris consists of extremely oxidized steel (more commonly called black oxides), steel spheres, and red oxides. This combination is what I would expect from welding or grinding contamination, so your suspicion about the debris being from uncleaned pipes is most likely correct. If you have any questions about this, please feel free to contact me.

SAMPLE INFORMATION

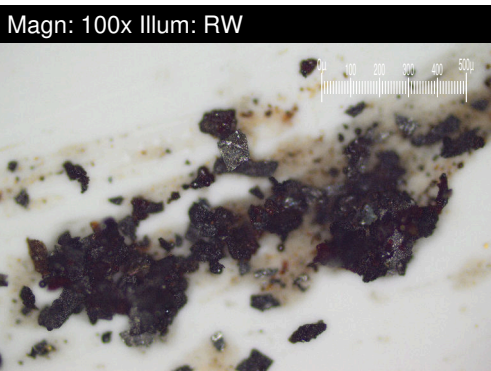
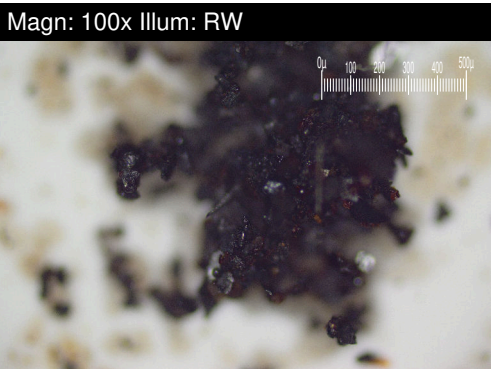
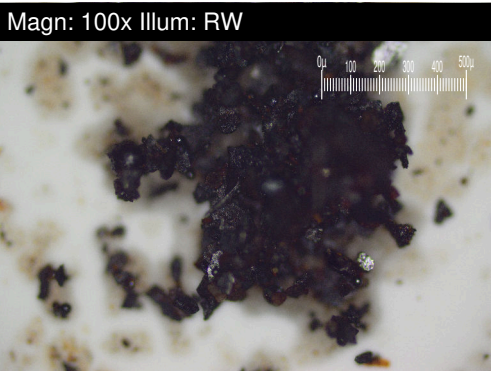
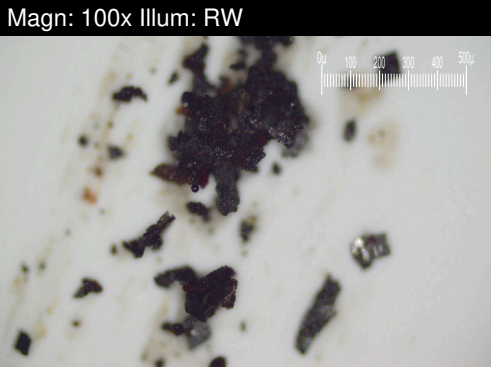
	method	limit/base	current	history1	history2
Sample Number	Client Info		WC05996132	---	---
Sample Date	Client Info		31 Oct 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed		Client Info	N/A	---	---
Sample Status			SEVERE	---	---

SAMPLE IMAGES

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

FERROGRAPHY REPORT

Machine Id
102323
 Component
Fluid
 Fluid
NOT GIVEN (--- QTS)



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			
Ferrous Break-in	Scale 0-10	*ASTM D7684			
Ferrous Spheres	Scale 0-10	*ASTM D7684	● 7		
Ferrous Black Oxides	Scale 0-10	*ASTM D7684	● 7		
Ferrous Red Oxides	Scale 0-10	*ASTM D7684	● 7		
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			
Carbonaceous Material	Scale 0-10	*ASTM D7684			
Lubricant Degradation	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			

WEAR