

GREASE ANALYSIS

Area MILL 450.1005E Press Bottom Infeed Drum Bearing EAST Component

Grease

KLUBER KLUBERLUB PHB 71-461 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. No other corrective action is recommended at this time. Analytical Ferrography: Similar to the other sample submitted, this sample has red oxide (rust) present. The exact source is unknown, so consider investigating the source for possible correction. Iron in metals analysis is elevated due to the red oxide, as there is only nominal amounts of ferrous wear present. Other than red oxide, only normal amounts of external contamination and ferrous rubbing wear is present.

🔺 Wear

Wear particle analysis indicates that the ferrous red oxides particles are marginal. Iron ppm levels are marginal. All other component wear rates are normal.

Grease Condition

The condition of the grease is acceptable for the time in service.

Contaminants

There is no indication of any contamination in the grease.

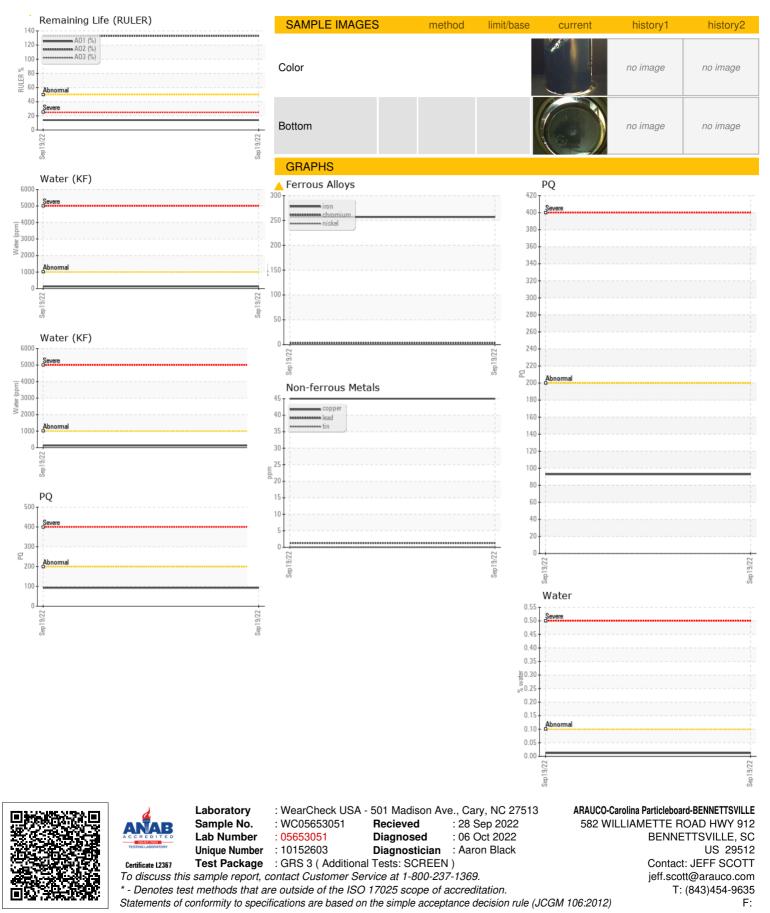
1 0 0 N N	current WC05653051 19 Sep 2022	history1 	history2
limit/base V 1 0 0 0 N N	current WC05653051 I9 Sep 2022		history2
V 1 0 0 N N	WC05653051 9 Sep 2022)		history2
1 0 0 N N	19 Sep 2022))		
0 0 N N)		
0 M M)		
N N			
N	J/A		
11 11 11	MARGINAL		
limit/base	current	history1	history2
>200	93		
>250	257		
>10	3		
>5	<1		
	0		
	<1		
	0		
>25	1		
>75	45		
>5	0		
>5	<1		
limit/base	current	history1	history2
650	142		
	2		
	2		
	-		
1030	1112		
limit/base	current	history1	history2
	3		
	3		
	0		
30			
30	0		
30	0 218		
30	0 218 11		
	0 218 11 1		
11650	0 218 11 1 4225	 	
11650 limit/base	0 218 11 1 4225 current	 history1	 history2
11650 limit/base	0 218 11 1 4225 current 6	 history1	 history2
11650 limit/base >150	0 218 11 1 4225 current 6 1	 history1 	 history2
11650 limit/base >150 >0.1	0 218 11 1 4225 current 6 1 0.012	 history1 	 history2
11650 limit/base >150 >0.1 >1000	0 218 11 1 4225 current 6 1 0.012 126.6	 history1 	 history2
11650 limit/base >150 >0.1 >1000	0 218 11 4225 current 6 1 0.012 126.6 current	 history1 history1	 history2 history2
11650 limit/base >150 >0.1 >1000	0 218 11 4225 current 6 1 0.012 126.6 Current Green	 history1 history1	 history2 history2
11650 limit/base >150 >0.1 >1000	0 218 11 4225 current 6 1 0.012 126.6 Unrent Green Long fiber	history1 history1 history1	 history2 history2 history2
	>5 >25 >75 >5 limit/base 650 860 1030	>10 3 >5 <1	>10 3 >5 <1

Sample Rating Trend

WEAR PARTICLES



GREASE ANALYSIS



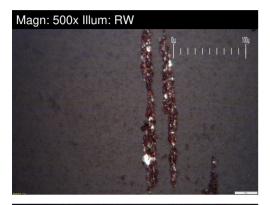
Contact/Location: JEFF SCOTT - ARABEN

FERROGRAPHY REPORT

Area MILL Machine Id 450.1005E Press Bottom Infeed Drum Bearing EAST Component Grease

Fluid

KLUBER KLUBERLUB PHB 71-461 (--- GAL)



Magn: 500x Illum: RW



FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	*ASTM D7684		2		
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				
Ferrous Black Oxides	Scale 0-10	*ASTM D7684				
Ferrous Red Oxides	Scale 0-10	*ASTM D7684		_ 5		
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		2		

Magn: 500x Illum: RW



WEAR

Wear particle analysis indicates that the ferrous red oxides particles are marginal. Iron ppm levels are marginal. All other component wear rates are normal. This page left intentionally blank