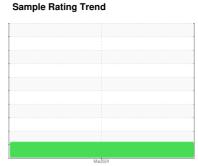


OIL ANALYSIS REPORT



DEGRADATION



BSE 85K

Component

Circulating Reciprocating Compressor

BITZER BSE 85K (--- GAL)

DIAGNOSIS

Recommendation

The component was not specified so we have determined that this is a reciprocating compressor based on the fluid type in use. Please specify the correct component type on your next sample. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable.

				Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0871106		
Sample Date		Client Info		11 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	0		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)		<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	<1		
Lead	ppm	ASTM D5185(m)	>25	0		
Copper	ppm	ASTM D5185(m)	>50	<1		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185(m)	0	<1		
Barium	ppm	ASTM D5185(m)		0		
	ppm	(/	0	0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)	0	<1		
Calcium	ppm	. ,	0	0		
	ppm	ASTM D5185(m)	1200	1131		
Phosphorus Zinc	ppm	ASTM D5185(m)		<1		
Sulfur	ppm	ASTM D5185(m)	0	0		
	ppm	ASTM D5185(m)	0			
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.015	0.009		
ppm Water	ppm	ASTM D6304*	>150	94		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	4931		
Particles >6µm		ASTM D7647	>2500	1601		
Particles >14μm		ASTM D7647	>320	174		
Particles >21µm		ASTM D7647	>80	56		
Particles >38μm		ASTM D7647	>20	7		
Particles >71μm		ASTM D7647	>4	1		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/18/15		



OIL ANALYSIS REPORT

