

Machine Id LIEBHERR LB36 115823 Component Hydraulic System Fluid {not provided} (800 LTR)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0286391		
Sample Date		Client Info		21 Mar 2024		
Machine Age	hrs	Client Info		4383		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				ATTENTION		
Iron	ppm	ASTM D5185(m)	>20	2		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>10	<1		
Lead	ppm	ASTM D5185(m)	>10	0		
Copper	ppm	ASTM D5185(m)	>75	1		
Tin	ppm	ASTM D5185(m)	>10	0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
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Silicon	ppm	ASTM D5185(m)	>20	0		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>20000	23389		
Particles >6µm		ASTM D7647	>5000	6704		
Particles >14µm		ASTM D7647	>640	467		
Particles >21µm		ASTM D7647	>160	109		
Particles >38µm		ASTM D7647	>40	4		
Particles >71µm Oil Cleanliness		ASTM D7647	>10	0		
Silt		ISO 4406 (c)	>21/19/16	22/20/16 NONE		
	scalar	Visual* Visual*	NONE			
Debris Sand/Dirt	scalar scalar	Visual*	NONE NONE	NONE NONE		
				-		
Appearance Odor	scalar scalar	Visual* Visual*	NORML NORML	NORML NORML		
Emulsified Water	scalar		>0.1	NEG		
	Scalal	visuai	>0.1	NEG		
Sodium	ppm	ASTM D5185(m)		0		
Boron	ppm	ASTM D5185(m)		1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		12		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		4		
Calcium	ppm	ASTM D5185(m)		32		
Phosphorus	ppm	ASTM D5185(m)		451		
Zinc	ppm	ASTM D5185(m)		213		
Sulfur	ppm	ASTM D5185(m)		1496		
Visc @ 40°C	cSt	ASTM D7279(m)		33.7		
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