

WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



Machine Id LIEBHERR L550 017976

Component Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for visible metal particles in the oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.



Light concentration of visible metal present.

CONTAMINATION

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

FLUI	D CO	ITION	

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0277614	LHMC011007	
Sample Date		Client Info		08 Jan 2024	29 Jul 2009	
Machine Age	hrs	Client Info		5671	2370	
Oil Age	hrs	Client Info		0	2370	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		N/A	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	
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Iron	ppm	ASTM D5185(m)	>20	10	4	
Chromium	ppm	ASTM D5185(m)	>10	<1	2	
Nickel	ppm	ASTM D5185(m)	>10	0	1	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>10	3	<1	
Lead	ppm	ASTM D5185(m)	>10	2	17	
Copper	ppm	ASTM D5185(m)	>75	32	4	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	🔺 LIGHT	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>20	4	2	
Potassium	ppm	ASTM D5185(m)	>20	2	0	
Water	%	ASTM D6304*	>0.1	0.022		
ppm Water	ppm	ASTM D6304*	>1000	221		
Particles >4µm		ASTM D7647	>20000	A 87216	137768	
Particles >6µm		ASTM D7647	>5000	A 24682	▲ 75048	
Particles >14µm		ASTM D7647	>640	▲ 650 00	▲ 12786	
Particles >21µm		ASTM D7647	>160	82	4 314	
Particles >38µm		ASTM D7647	>40	3	▲ 666	
Particles >71µm		ASTM D7647	>10	1	▲ 68	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 24/22/17	▲ 24/23/21	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	LIGHT NONE	
Sand/Dirt	scalar scalar	Visual* Visual*	NONE	NONE NORML	NORML	
Appearance Odor		Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*		.2%	NEG	
	scalar	visuai	>0.1	.2%	INEG	
Sodium	ppm	ASTM D5185(m)		8	3	
Boron	ppm	ASTM D5185(m)		<1	4	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)		5	8	
Calcium	ppm	ASTM D5185(m)		653	1297	
Phosphorus	ppm	ASTM D5185(m)		429	336	
Zinc	ppm	ASTM D5185(m)		517	395	
Sulfur	ppm	ASTM D5185(m)		1974	3521	
Visc @ 40°C	cSt	ASTM D7279(m)		42.7	66.62	
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