

WEAR	NORMAL
CONTAMINATION	
FLUID CONDITION	NORMAL



RECOMMENDATION

LIEBHERR R934 056484-1550

Hydraulic System

{not provided} (--- GAL)

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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All component wear rates are normal.

## CONTAMINATION

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

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289718		
Sample Date		Client Info		21 Apr 2024		
Machine Age	hrs	Client Info		1004		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed	1110	Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185(m)	>50	5		
Chromium	ppm	ASTM D5185(m)	>15	1		
Nickel	ppm	ASTM D5185(m)	>5	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>8	<1		
Lead	ppm	ASTM D5185(m)	>5	0		
Copper	ppm	ASTM D5185(m)	>15	4		
Tin	ppm	ASTM D5185(m)	>5	0		
Vanadium	mag	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)	>25	2		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>20000	12907		
Particles >6µm		ASTM D7647	>5000	4018		
Particles >14µm		ASTM D7647	>640	402		
Particles >21µm		ASTM D7647	>160	105		
Particles >38µm		ASTM D7647	>40	8		
Particles >71µm		ASTM D7647	>10	1		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/16		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.1	NEG		
Sodium	ppm	ASTM D5185(m)		2		
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		4		
Calcium	ppm	ASTM D5185(m)		1345		
Phosphorus	ppm	ASTM D5185(m)		621		
Zinc	ppm	ASTM D5185(m)		702		
Sulfur	ppm	ASTM D5185(m)		3406		
Visc @ 40°C	cSt	ASTM D7279(m)		42.2		
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