WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL

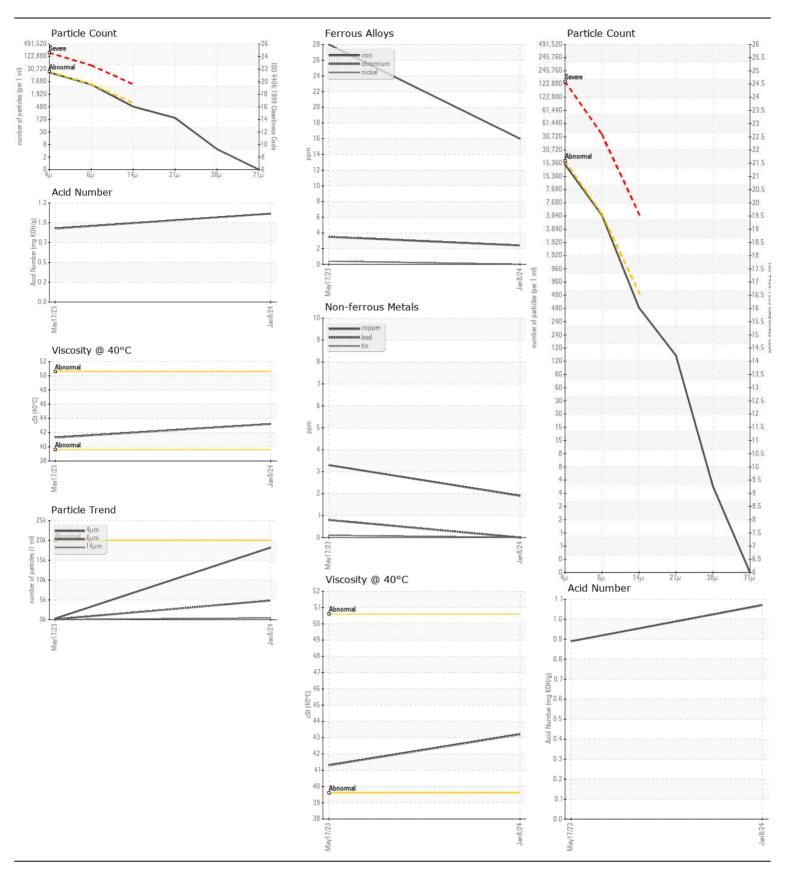


LIEBHERR LH40M 122207-1215

Component **Hydraulic System**

{not provided} (--- GAL)

DECOMMENDATION.	_				$\langle \cdot \rangle$.	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Posample at the payt convice interval to maniter	Sample Number		Client Info		LH0273225	LH0244669	
Resample at the next service interval to monitor.	Sample Date		Client Info		08 Jan 2024	,	
	Machine Age	hrs	Client Info		3977	2962	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>60	16	28	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>40	2	4	
	Nickel	ppm	ASTM D5185m	>10	0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>5	0	0	
	Lead	ppm	ASTM D5185m	>5	0	<1	
	Copper	ppm	ASTM D5185m		2	3	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	70	0	0	
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		Scalai	Visuai	INOINE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	1	2	
OOMIAMINATION	Potassium	ppm	ASTM D5185m		0	2	
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water	pp	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		18208	284	
	Particles >6µm		ASTM D7647		4821	88	
	Particles >14μm		ASTM D7647		430	16	
	Particles >21μm		ASTM D7647		123	6	
	Particles >38µm		ASTM D7647		4	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness				_	-	
		o o o lo v	ISO 4406 (c)		21/19/16	15/14/11	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Codium	nnm	ACTM DE10Em		2	-1	
TEOID CONDITION	Sodium Boron	ppm	ASTM D5185m		0	<1 0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.		ppm	ASTM D5185m				
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		0	9	
	Calcium	ppm	ASTM D5185m		1046	1066	
	Phosphorus	ppm	ASTM D5185m		531	512	
	Zinc	ppm	ASTM D5185m		612	651	
	Sulfur	ppm	ASTM D5185m		4164	4840	
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.07	0.89	
	Visc @ 40°C	cSt	ASTM D445		43.2	41.3	





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06060984 : 10832366 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 : LH0273225 Diagnosed : 17 Jan 2024 : Jonathan Hester Diagnostician

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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