

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



LIEBHERR LH50M 1203-75955

Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

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



All component wear rates are normal.

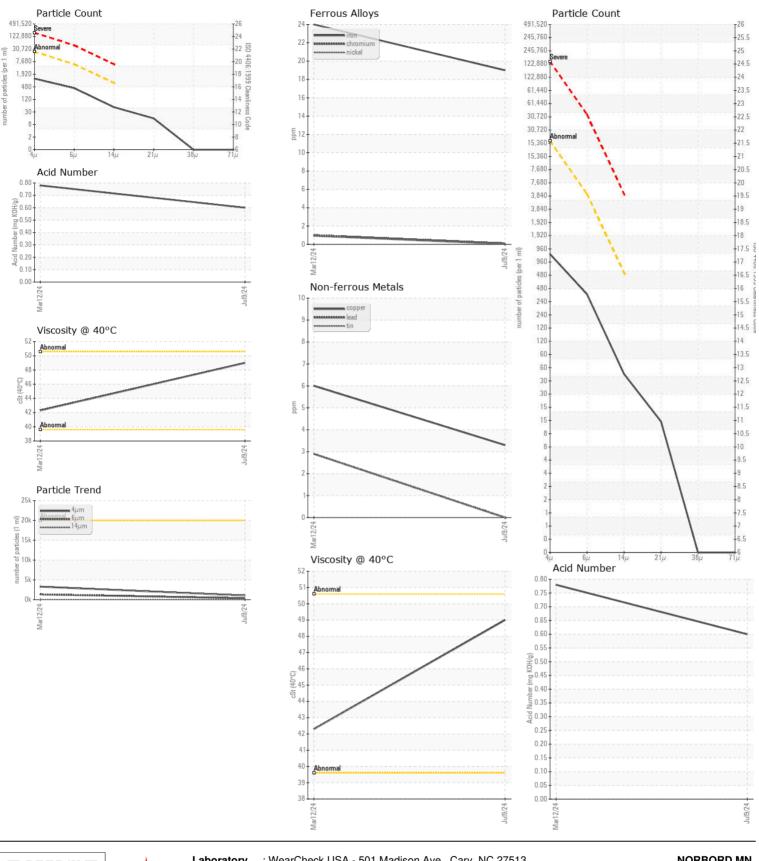
CONTAMINATION

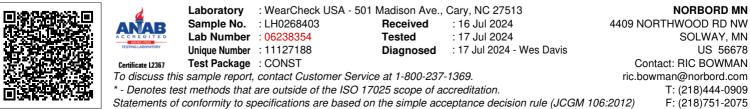
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLU	CON	דוחנ	ION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2			
Sample Number		Client Info		LH0268403	LH0258884				
Sample Date		Client Info		09 Jul 2024	12 Mar 2024				
Machine Age	hrs	Client Info		1517	1517				
Oil Age	hrs	Client Info		0	0				
Filter Age	hrs	Client Info		0	0				
Oil Changed		Client Info		Not Changd	Not Changd				
Filter Changed		Client Info		Changed	Changed				
Sample Status				NORMAL	NORMAL				
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Iron	ppm	ASTM D5185m	>60	19	24				
Chromium	ppm	ASTM D5185m	>40	<1	1				
Nickel	ppm	ASTM D5185m	>10	0	<1				
Titanium	ppm	ASTM D5185m		0	<1				
Silver	ppm	ASTM D5185m		0	0				
Aluminum	ppm	ASTM D5185m		<1	<1				
Lead	ppm	ASTM D5185m	>5	0	3				
Copper	ppm	ASTM D5185m	>15	3	6				
Tin	ppm	ASTM D5185m	>5	0	3				
Vanadium	ppm	ASTM D5185m		0	<1				
White Metal	scalar	*Visual	NONE	NONE	NONE				
Yellow Metal	scalar	*Visual	NONE	NONE	NONE				
Silicon	ppm	ASTM D5185m	>15	2	3				
Potassium	ppm	ASTM D5185m	>20	<u>د</u> <1	2				
Water	ppiii	WC Method	>0.1	NEG	NEG				
Particles >4µm		ASTM D7647	>20000	1036	3292				
Particles >6µm		ASTM D7647	>5000	363	1335				
Particles >14µm		ASTM D7647		45	61				
Particles >21µm		ASTM D7647	>160	13	8				
Particles >38µm		ASTM D7647		0	1				
Particles >71µm		ASTM D7647	>10	0	0				
Oil Cleanliness		ISO 4406 (c)	>21/19/16	17/16/13	19/18/13				
Silt	scalar	*Visual	NONE	NONE	NONE				
Debris	scalar	*Visual	NONE	NONE	NONE				
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				
Sodium	ppm	ASTM D5185m		2	3				
Boron	ppm	ASTM D5185m		0	2				
Barium	ppm	ASTM D5185m		0	0				
Molybdenum	ppm	ASTM D5185m		0	<1				
Manganese	ppm	ASTM D5185m		<1	1				
Magnesium	ppm	ASTM D5185m		11	2				
Calcium	ppm	ASTM D5185m		496	771				
Phosphorus	ppm	ASTM D5185m		478	451				
Zinc	ppm	ASTM D5185m		537	495				
Sulfur	ppm	ASTM D5185m		2618	3204				
Acid Number (AN)	mg KOH/g	ASTM D8045		0.60	0.78				
Visc @ 40°C	cSt	ASTM D445		49.0	42.3				





Contact/Location: RIC BOWMAN - NORSOLLH Page 2 of 2