WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

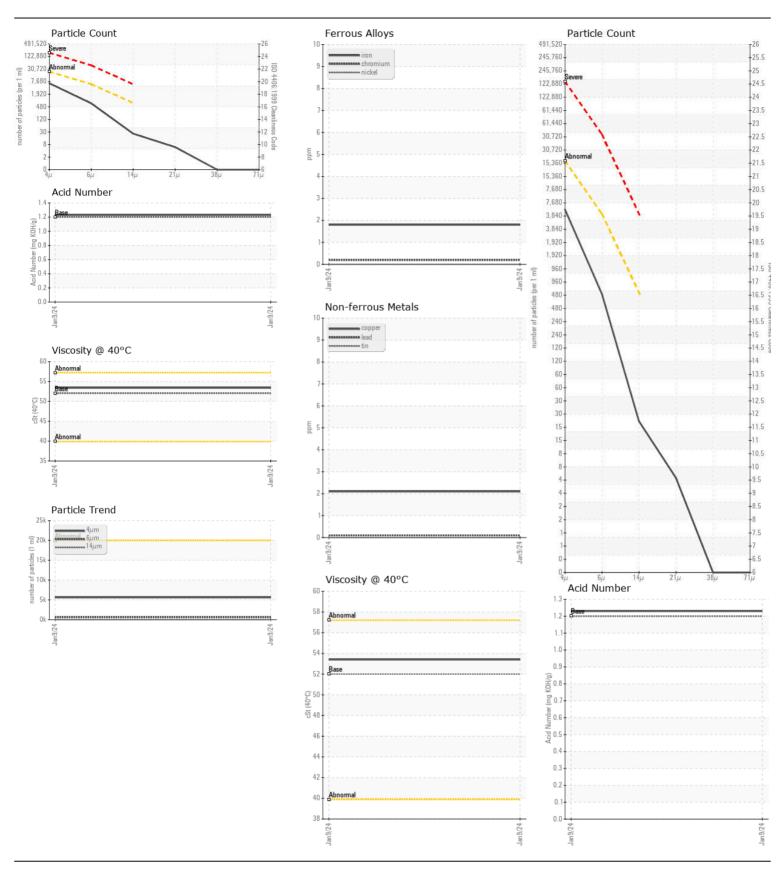


LIEBHERR LH22M 135268-1250

Component **Hydraulic System**

LIEBHERR HYDRAULIC HVI (--- GAL)

LIEBHERR HYDRAULIC HVI (- GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0258220		
Resample at the next service interval to monitor.	Sample Date		Client Info		09 Jan 2024		
	Machine Age	hrs	Client Info		65		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	Iron	nnm	ASTM D5185m	>60	2		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	710	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>5	2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m	>15	2		
	Tin	ppm	ASTM D5185m	>5	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	0:1:		AOTA DE40E	4.5			
	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		6 1		
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water	ppm	WC Method		NEG		
	Particles >4µm		ASTM D7647		5621		
	Particles >6µm		ASTM D7647		613		
	Particles >14μm		ASTM D7647		22		
	Particles >21µm		ASTM D7647		5		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/16/12		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m	7	4		
	Calcium	ppm	ASTM D5185m		1560		
	Phosphorus	ppm	ASTM D5185m		633		
	Zinc	ppm	ASTM D5185m		751		
	Sulfur	ppm	ASTM D5185m	4000	5188		
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.23		
	Visc @ 40°C	cSt	ASTM D445	52	53.4		





Certificate L2367

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

: LH0258220 : 06060184 : 10831566 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024

: 18 Jan 2024 Diagnosed : Jonathan Hester Diagnostician

M&F CONCRETE PRODUCTS CO

4002 CATLETT RD CATLETT, VA US 20119

Contact: Service Manager

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

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

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

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