

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

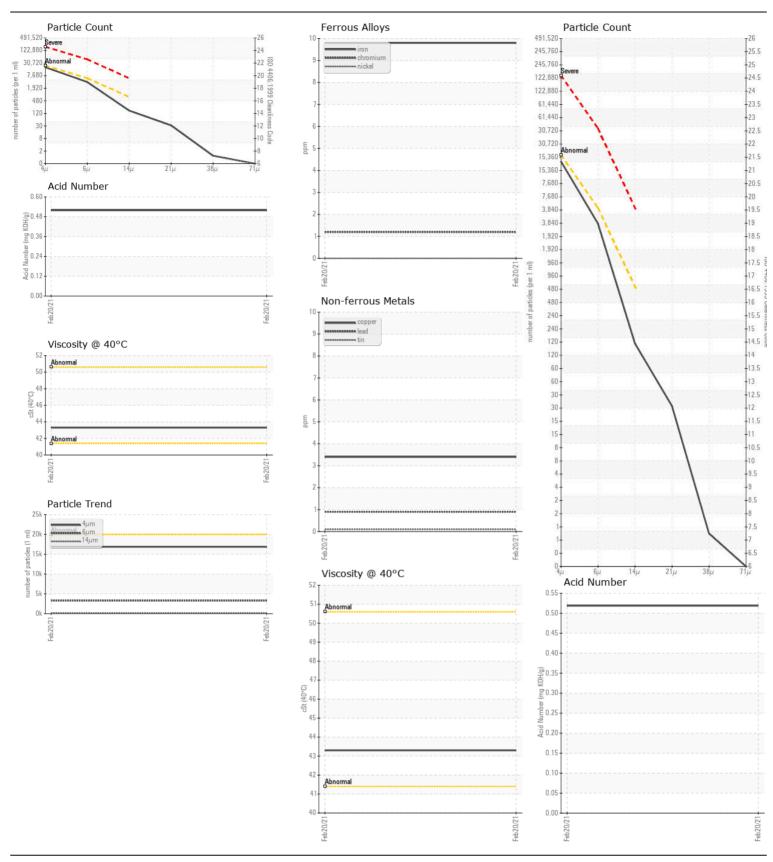


LIEBHERR LH50M 1203-88008

Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LHMC144349		
Resample at the next service interval to monitor.	Sample Date		Client Info		20 Feb 2021		
	Machine Age	hrs	Client Info		3069		
	Oil Age	hrs	Client Info		3069		
	Filter Age	hrs	Client Info		1069		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAD			AOTH DE LOS				
WEAR	Iron	ppm	ASTM D5185m		10		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>40	1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium Silver	ppm	ASTM D5185m		<1 0		
		ppm	ASTM D5185m	. E	-		
	Aluminum Lead	ppm	ASTM D5185m ASTM D5185m		0 <1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		ა <1		
	Vanadium	ppm	ASTM D5185m	20	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			v Iodai				
CONTAMINATION The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>15	3		
	Potassium	ppm	ASTM D5185m	>20	<1		
	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>20000	16867		
	Particles >6µm		ASTM D7647	>5000	3317		
	Particles >14μm		ASTM D7647	>640	144		
	Particles >21µm		ASTM D7647		28		
	Particles >38μm		ASTM D7647		1		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		21/19/14		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.1	NORML NEG		
<u> </u>		Scalai	Visuai	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m		19		
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		8		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		53		
	Calcium	ppm	ASTM D5185m		1953		
	Phosphorus	ppm	ASTM D5185m		573		
	Zinc	ppm	ASTM D5185m		702		
	Sulfur	ppm	ASTM D5185m		3778		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.519		
	Visc @ 40°C	cSt	ASTM D445		43.3		





Certificate L2367

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

: 05202380 : 9403789 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LHMC144349 Recieved : 12 Mar 2021 Diagnosed : 15 Mar 2021

: Don Baldridge Diagnostician

JR VINAGRO 2208 PLAINFIELD PIKE JOHNSTON, RI US 02919 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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