



**LIEBHERR LH50M 1203-88008** 

Component Swing Drive

LIEBHERR 90LS (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LHMC130741		
Sample Date		Client Info		17 Aug 2018		
Machine Age	hrs	Client Info		980		
Oil Age	hrs	Client Info		980		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185m	>350	177		
Chromium	ppm	ASTM D5185m	>15	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>5	<1		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>300	33		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	LIGHT		
Yellow Metal	scalar	*Visual	NONE	NONE		
0:1:			45	•		
Silicon	ppm	ASTM D5185m	>15	3		
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>0.2	NEG		
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	>0.2	NEG		
Sodium	ppm	ASTM D5185m		5		
Boron	ppm	ASTM D5185m		23		
Barium	ppm	ASTM D5185m		1		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		- 38		
Calcium	ppm	ASTM D5185m		19		
Phosphorus	ppm	ASTM D5185m		1991		
Zinc	ppm	ASTM D5185m		18		
Sulfur	ppm	ASTM D5185m		22022		
				175 7		

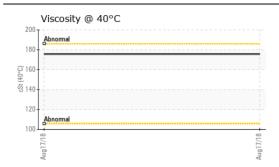
Visc @ 40°C

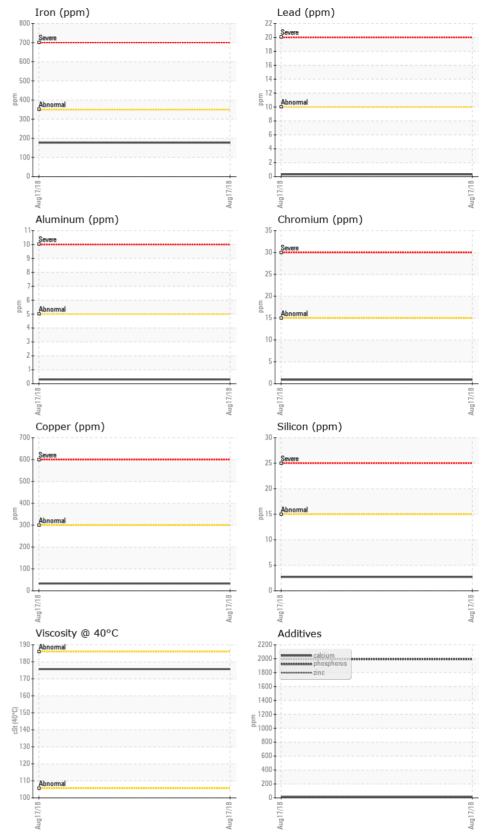
cSt

ASTM D445

Contact/Location: Service Manager - JRVJOH

175.7





**JR VINAGRO** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : LHMC130741 Recieved : 30 Aug 2018 2208 PLAINFIELD PIKE Lab Number : 30 Aug 2018 JOHNSTON, RI :04542114 Diagnosed : 8315946 Unique Number Diagnostician : Wes Davis US 02919 Test Package : MOB 1 Contact: Service Manager Certificate L2367 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. T:

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

Contact/Location: Service Manager - JRVJOH