

WEAR CONTAMINATION **FLUID CONDITION**

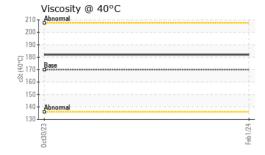
NORMAL **NORMAL NORMAL**

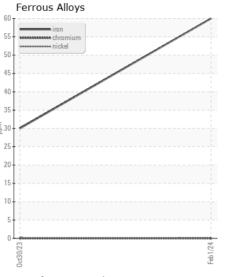


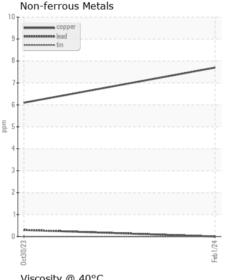
LIEBHERR LH40M MH-12 (S/N 142301)

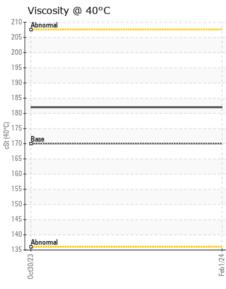
Component Rear Axle

LIEBHERR GEAR BASIC 90 LS	(22 LTR)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0272196	LH0258589	
	Sample Date		Client Info		01 Feb 2024	30 Oct 2023	
	Machine Age	hrs	Client Info		4277	2954	
	Oil Age	hrs	Client Info		1323	1195	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>500	60	30	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	
	Nickel	ppm	ASTM D5185m	>10	0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	0	<1	
	Lead	ppm	ASTM D5185m	>25	0	<1	
	Copper	ppm	ASTM D5185m	>50	8	6	
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	5	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	1	
	Water		WC Method	>0.2	NEG	NEG	
	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	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	1	1	
	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m	0	0	0	
	Manganese	ppm	ASTM D5185m	0	1	1	
	Magnesium	ppm	ASTM D5185m	<1	0	1	
	Calcium	ppm	ASTM D5185m	<1	82	77	
	Phosphorus	ppm	ASTM D5185m		2165	2249	
	Zinc	ppm	ASTM D5185m		25	19	
	Sulfur	ppm	ASTM D5185m		26535	27350	
	Visc @ 40°C	cSt	ASTM D445	170	182	182	











Certificate L2367

Laboratory

Sample No.

Lab Number : 06086331 Unique Number: 10873776

: LH0272196

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024

Tested : 13 Feb 2024 Diagnosed : 13 Feb 2024 - Wes Davis

2208 PLAINFIELD PIKE JOHNSTON, RI US 02919 Contact: Service Manager

JR VINAGRO

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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F: