

WEAR CONTAMINATION FLUID CONDITION

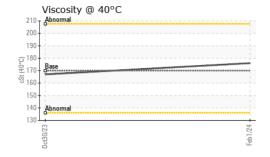
NORMAL NORMAL NORMAL

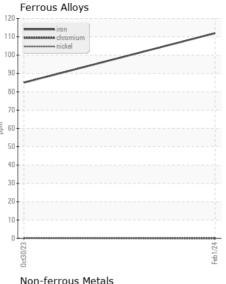


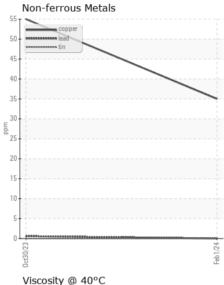
LIEBHERR LH40M MH-12 (S/N 142301)

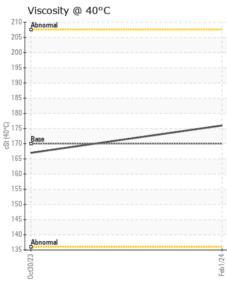
Front Left Final Drive

	(4 LTR)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0272193	LH0258583	
	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		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>350	112	85	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	1	3	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		35	55	
	Tin	ppm	ASTM D5185m		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	>45	15	14	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	4	
	Water			>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	
<u></u>	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		12	6	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	0	0	
	Barium	ppm	ASTM D5185m	0	<1	0	
	Molybdenum	ppm	ASTM D5185m	0	0	0	
	Manganese	ppm	ASTM D5185m	0	4	3	
	Magnesium	ppm	ASTM D5185m	<1	4	2	
	Calcium	ppm	ASTM D5185m	<1	134	86	
	Phosphorus	ppm	ASTM D5185m	2143	2073	1837	
	Zinc	ppm	ASTM D5185m	<1	61	33	
	Sulfur	ppm	ASTM D5185m	23468	25865	24288	
	Visc @ 40°C	cSt	ASTM D445	4 0	176	167	













Certificate L2367

Laboratory Sample No.

: LH0272193 Lab Number : 06086330 Unique Number : 10873775 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

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)

T:

F: