

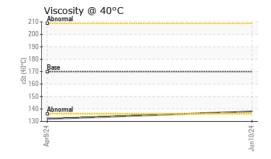
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL** NORMAL

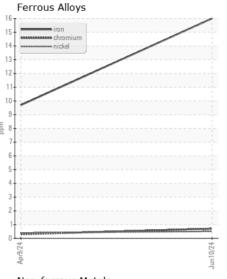


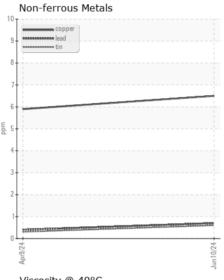
Machine Id 145797-1218 LIEBHERR LH80M 145797-1218

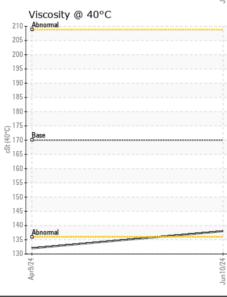
Rear Differential

LIEBHERR GEAR BASIC 90 LS	(GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0257707	LH0257721	
	Sample Date		Client Info		10 Jun 2024	09 Apr 2024	
	Machine Age	hrs	Client Info		2017	1579	
	Oil Age	hrs	Client Info		1000	500	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>150	16	10	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	<1	<1	
	Nickel	ppm	ASTM D5185m	>10	<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m	>5	2	2	
	Lead	ppm	ASTM D5185m	>5	<1	<1	
	Copper	ppm	ASTM D5185m	>125	6	6	
	Tin	ppm	ASTM D5185m	>5	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	3	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	2	
	Water		WC Method	>0.2	NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	LIGHT	
	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		3	2	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	109	146	
	Barium	ppm	ASTM D5185m	0	1	<1	
	Molybdenum	ppm	ASTM D5185m	0	5	6	
	Manganese	ppm	ASTM D5185m	0	1	<1	
	Magnesium	ppm	ASTM D5185m	<1	29	34	
	Calcium	ppm	ASTM D5185m	<1	107	85	
	Phosphorus	ppm	ASTM D5185m	2143	2506	2401	
	Zinc	ppm	ASTM D5185m	<1	78	57	
	Sulfur	ppm	ASTM D5185m		22931	20351	
	Visc @ 40°C	cSt	ASTM D445	170	138	132	











Certificate L2367

Laboratory Sample No.

: LH0257707 Lab Number : 06222710 Unique Number : 11100907 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Jun 2024 **Tested** : 28 Jun 2024

Diagnosed : 29 Jun 2024 - Don Baldridge

TEXAS PORT RECYCLING - HOUSTON PORT 8945 MANCHESTER ST

HOUSTON, TX US 77012

Contact: Dale Shaw dale.shaw@tmrecycling.com

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)

F: (713)921-5545 Contact/Location: Dale Shaw - TEXHOUWC

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