

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**



LIEBHERR LIEBHERR LH50M 102002-1216

Front Right Wheel Hub GEAR OIL SAE 80W90 (GAL	.)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		DJJ0023735	DJJ0011145	LH0236557
	Sample Date		Client Info		02 Jul 2024	30 Jan 2024	01 Sep 2022
	Machine Age	hrs	Client Info		12993	12313	9562
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Not Changd	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>325	90	162	89
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	1	<1
	Nickel	ppm	ASTM D5185m		0	<1	2
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	2	3	2
	Lead	ppm	ASTM D5185m	>3	0	<1	0
	Copper	ppm	ASTM D5185m	>70	10	27	10
	Tin	ppm	ASTM D5185m	>2	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>70	11	17	13
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	4	2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	4	5	4
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	<1	0	3
	Barium	ppm	ASTM D5185m	200	<1	1	0
	Molybdenum	ppm	ASTM D5185m	12	0	1	2
	Manganese	ppm	ASTM D5185m		1	2	1
	Magnesium	ppm	ASTM D5185m		4	7	9
	Calcium	ppm	ASTM D5185m		52	33	88
	Phosphorus	ppm	ASTM D5185m		348	400	311
	Zinc	ppm	ASTM D5185m		30	37	41
	Culfur	nnm	ACTM DE10Em	22500	102/5	17407	16060

Sulfur

Visc @ 40°C

18345

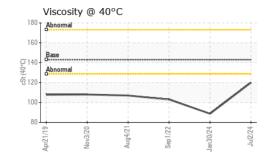
120

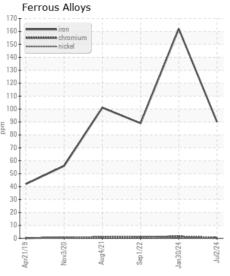
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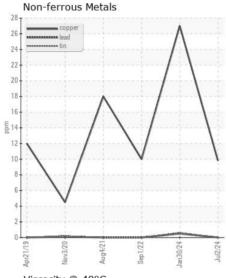
ASTM D445 143

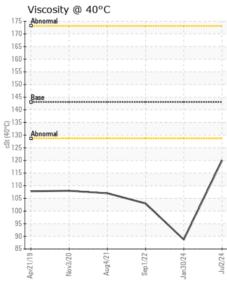
17407 16368

88.7











Certificate L2367

Laboratory Sample No.

Lab Number : 06232634 Unique Number : 11116127

: DJJ0023735

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jul 2024 **Tested**

: 11 Jul 2024 Diagnosed : 11 Jul 2024 - Wes Davis

METAL RECYCLING SERVICES - MONROE

150 S BIVENS RD MONROE, NC US 28112

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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F: