WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL



## Machine Id **LIEBHERR LH50 142548-1216**

Component Front Left Wheel Hub Fluid GEAR OIL SAE 80W90 ( GAL)	)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.	Sample Number		Client Info		LH0264760	LH0272486	LH0243155
	Sample Date		Client Info		20 May 2024	30 Oct 2023	11 Jan 2023
	Machine Age	hrs	Client Info		3013	1993	473
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR  All component wear rates are normal.	Iron	ppm	ASTM D5185m	>325	48	39	68
	Chromium	ppm	ASTM D5185m	>3	<1	0	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	0	0	2
	Lead	ppm	ASTM D5185m	>4	0	0	<1
	Copper	ppm	ASTM D5185m	>75	11	16	19
	Tin	ppm	ASTM D5185m	>3	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	2	2	15
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	<1	2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	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	3	4	4
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	0	<1	3
	Barium	ppm	ASTM D5185m	200	0	0	0
	Molybdenum	ppm	ASTM D5185m	12	2	0	2
	Manganese	ppm	ASTM D5185m		2	1	3
	Magnesium	ppm	ASTM D5185m		4	10	16
	Calcium	ppm	ASTM D5185m		50	27	102
	Phosphorus	ppm	ASTM D5185m		912	644	1382
	Zinc	ppm	ASTM D5185m	125	31	23	34

Sulfur

Visc @ 40°C

26601

120

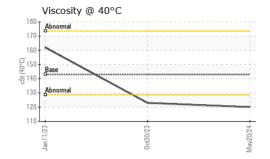
ppm ASTM D5185m 22500

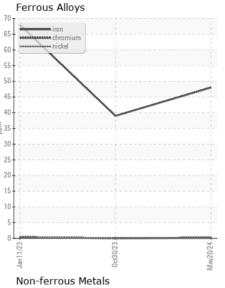
ASTM D445 143

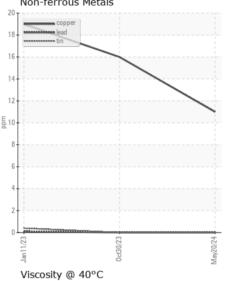
23156

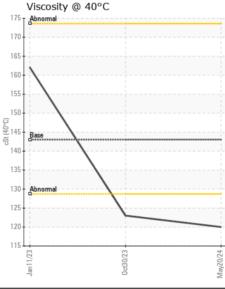
21291

123











Certificate L2367

Laboratory Sample No.

: LH0264760 Lab Number : 06191360 Unique Number : 11048112 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested** : 28 May 2024

Diagnosed : 28 May 2024 - Wes Davis

AMERICAN STATE EQUIPMENT CO. 2400 NORTH 14TH AVENUE

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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)