# LIEBHERR

**CONSTRUCTION EQUIPMENT** 

## LIEBHERR LH50 1216-121548 - Front Differential

Sample No: LH0267183

Oil Type: GEAR OIL SAE 80W90

<b>5</b>					
Sam	ple Infor	mation			
Sample Number		LH0267183	LH0243395	LH0263852	LH0236118
Sample Date		25 Apr 2024	05 Oct 2023	18 Jul 2023	20 Jan 2023
Machine Hours		4279	2969	2422	1172
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
<u> </u>					
Oil Co	ondition	1			
Visc @ 40°C	cSt	O 121	O 122	O 130	O 130
		0	0	0.100	0 100
0	••				
Cont	aminati	on			
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>2</b>	O 1	<b>0</b>	O 1
Sodium	ppm	<b>0</b>	O <1	O <1	0
Potassium	ppm	<b>2</b>	0	O	O 1
<b>**</b>					
Wea	r Metals	5			
Iron	ppm	<b>4</b>	O 2	<b>6</b>	<b>4</b>
Copper	ppm	<b>3</b>	O 2	<b>8</b>	<b>3</b>
Lead	ppm	<b>O</b> <1	O 0	O	O 0
Tin	ppm	<b>0</b> 1	O 0	<b>0</b>	O 0
Aluminum	ppm	<b>O</b> <1	O 0	O 0	O 0
Chromium	ppm	<b>O</b> <1	O 0	O 0	0
Molybdenum	ppm	<b>O</b> <1	O 0	O <1	<1
Nickel	ppm	<b>O</b> <1	O 0	O 0	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<b>0</b> <1	<b>0</b> 0	O <1	<1
Vanadium	ppm	<1	0	0	0
Addi	tives				
	tives				
Calcium	ppm	<b>36</b>	<b>47</b>	<b>35</b>	38
Magnesium	ppm	<b>4</b>	O 2	<b>9</b>	4

**1**4

882

0

31

0

02

848



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#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
Unique No: 11019235
Signed: Sean Felton
Report Date: 10 May 2024

**18** 

**837** 

0

ppm

ppm

ppm

ppm

Zinc

Barium

Boron

Phosphorus

# CONSTRUCTION EQUIPMENT





### **Graphs**

