## LIEBHERR

## **CONSTRUCTION EQUIPMENT**

## LIEBHERR LH50 1216-116574 - Front Differential

Sample No: LH0272159

Iron

Copper

Aluminum

Chromium

Nickel

Silver

Titanium

Manganese

Molybdenum

Lead

Tin

Oil Type: GEAR OIL SAE 80W90

ppm

**7** 

**3** 

0

0 <1

**0** 

**0** 

**3** 

 $\bigcirc$  0

0

<1

0

Sample Number		LH0272159	LH0171172	LH0171116	LH0171102
Sample Date		20 Dec 2023	29 Aug 2023	27 Apr 2023	27 Jan 2023
Machine Hours		19776	17910	16726	14930
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	ABNORMAL
/isc @ 40°C	cSt I <b>TAMINA</b>	(a) 124		○ 190	○ 186
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>1</b>	O <1	O <1	<b>9</b>
Sodium	ppm	<b>1</b>	O 1	O 2	O 3
Potassium	ppm	<b>0</b> 0	0	0 2	0

23

0

0

0 <1

 $\bigcirc$  0

02

 $\bigcirc$  0

 $\bigcirc$  0

0 <1

 $\bigcirc$  0

0

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F.	
	170100

#### **BOISE WHITE PAPER**

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#### Diagnosis

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.

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.

9	1-1-	-								
Vanadium	ppm	0	<1	0	0					
THE STATE OF THE S										
ADDITIVES										
Calcium	ppm	<b>99</b>	<b>45</b>	<b>3</b>	7					
Magnesium	ppm	<b>20</b>	0 8	O 0	2					
Zinc	ppm	<b>38</b>	O 11	0	23					
Phosphorus	ppm	<b>723</b>	927	2119	1158					
Barium	ppm	<b>0</b>	O	O 0	393					
Boron	ppm	<b>26</b>	<b>5</b>	O 2	<1					

Depot:BOIINTUnique No:10844586Signed:Wes DavisReport Date:23 Jan 2024

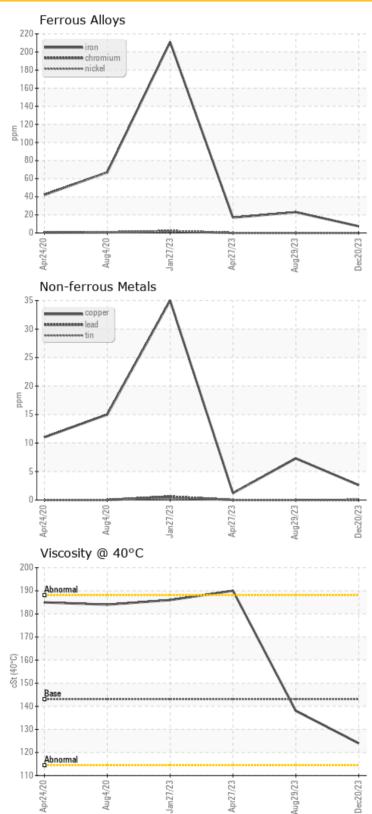
# LIEBHERR







### **GRAPHS**



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