CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1216-116574 - Front Differential

Sample No: LH0171172

Oil Type: **GEAR OIL SAE 80W90**

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J SAM	PLE INFO	RMATION			
Sample Number		LH0171172	LH0171116	LH0171102	LH0171088
Sample Date		29 Aug 2023	27 Apr 2023	27 Jan 2023	04 Aug 2020
Machine Hours		17910	16726	14930	2000
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Not Changd
Sample Status		NORMAL	NORMAL	ABNORMAL	NORMAL
A Status		1101111111111		7.12.101.1111.12	
OILC	ONDITIO	N			
Visc @ 40°C	cSt	138	190	O 186	O 184
and the second					
CON	TAMINAT	ION			
Silicon			0 1	O 9	O 5
	ppm	O <1	0 <1	0	_
Sodium	ppm	01	0 2	3	03
Potassium	ppm	0	0 2	0	() <1
(Ö) WEA					
WEA	R METALS	5			
Iron	ppm	23	1 7	O 211	6 7
Copper	ppm	7	O 1	35	O 15
Lead	ppm	0	O 0	<1	O 0
Tin	ppm	0	O 0	<1	O 0
Aluminum	ppm	0 <1	O <1	1	O 0
Chromium	ppm	0	O 0	<u>2</u>	O <1
Molybdenum	ppm	2	0	<1	O <1
Nickel	ppm	0	0	O 2	O <1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	O 1	5	0 2
Vanadium	ppm	<1	0	0	0
III.					
ADD	ITIVES				
Calcium		45	3	7	0 5
Magnesium	ppm	0 45	00	2	0 <1
Zinc	ppm	_	0	23	0 < 1
	ppm	○ 11○ 927	2119	1158	•
Phosphorus	ppm				0 1081
Barium	ppm	0 0	0 0	393	369
Boron	ppm	5	O 2	<1	3





BOISE WHITE PAPER

3RD AVE AND HWY 11, 400 2ND ST INTERNATIONAL FALLS, MN US 56649

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Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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: **BOIINT Unique No:** 10633779 Signed: Sean Felton **Report Date:** 08 Sep 2023

LIEBHERR

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GRAPHS

