## LIEBHERR

### **CONSTRUCTION EQUIPMENT**

### LIEBHERR LH50 1216-116574 - Rear Differential

Sample No: LH0171173

Oil Type: GEAR OIL SAE 80W90

ā					
SAMI	PLE INFOR	MATION			
Sample Number		LH0171173	LH0171117	LH0171103	LH0171089
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
<u> </u>					
OIL CO	ONDITION				
Visc @ 40°C	cSt	① 142	O 181	O 155	O 168
-1		<b>U</b> 1 12	<b>O</b> 101	<b>O</b> 100	0 .00
CONT	'AMINATIO				
CONI	AMINAII				
Silicon	ppm	<b>3</b>	<b>4</b>	<b>9</b>	O 7
Sodium	ppm	<b>3</b>	O 2	○ 3	○ 3
Potassium	ppm	<b>0</b>	O 2	O 0	O <1
© WEAL					
WEA	R METALS				
Iron	ppm	<b>77</b>	O 77	<u>203</u>	O 52
Copper	ppm	<b>14</b>	O 12	<b>5</b> 3	○ 21
Lead	ppm	<b>0</b> 0	O 0	<b>1</b>	O 0
Tin	ppm	<b>0</b>	O 0	<b>0</b>	O 0
Aluminum	ppm	<b>0</b> <1	O <1	O 0	O 0
Chromium	ppm	<b>0</b>	O <1	<b>1</b>	O <1
Molybdenum	ppm	<b>2</b>	O <1	<1	O <1
Nickel	ppm	<b>0</b>	<b>0</b>	<b>()</b> <1	<b></b> <1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<b>1</b>	O 2	4	O 2
Vanadium	ppm	<1	<1	0	0
WI I					
ADDI	TIVES				
Calcium	ppm	<b>39</b>	O 15	57	○ 85
Magnesium	ppm	<b>6</b>	0 1	2	O 2
Zinc	ppm	<b>16</b>	O 7	47	O 23
Phosphorus	ppm	<b>1096</b>	O 2176	1833	O 1963



#### **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. 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: 10633784
Signed: Sean Felton
Report Date: 08 Sep 2023

**21** 

ppm

Boron

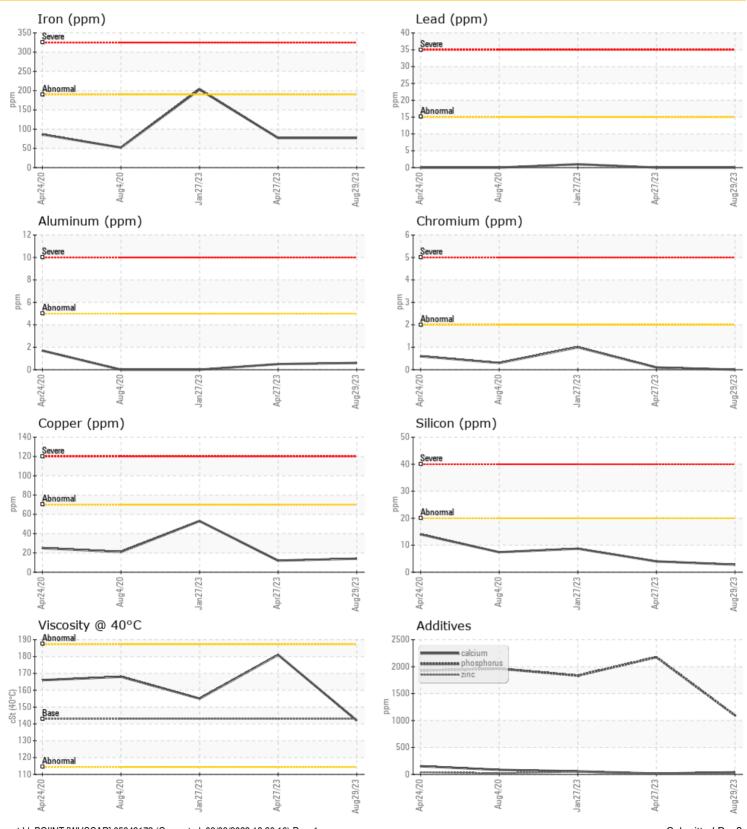
# LIEBHERR

CONSTRUCTION EQUIPMENT





#### **GRAPHS**



Report Id: BOIINT [WUSCAR] 05943172 (Generated: 09/08/2023 13:30:16) Rev: 1