# LIEBHERR

## **CONSTRUCTION EQUIPMENT**

### LIEBHERR LH50 1216-115016 - Rear Differential

Sample No: LH0156672

Oil Type: GEAR OIL SAE 75W140

CAM	DI E INEOI	RMATION			
	PLE INFO				
Sample Number		LH0156672	LH0156616	LH0156714	LH0156560
Sample Date		30 Aug 2023	25 Apr 2023	25 Jan 2023	21 Nov 2019
Machine Hours		16752	15594	14552	473
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Not Changd
Sample Status		NORMAL	ATTENTION	ABNORMAL	NORMAL
OILC	ONDITIO	N			
Visc @ 40°C	cSt	86.9	95.0	87.2	161
-L			0 0010		
CON.	TAMINAT	ION			
Silicon	ppm	<b>7</b>	O 19	O 108	O 12
Sodium	ppm	<b>1</b>	O <1	<b>o</b> 5	<b>4</b>
Potassium	ppm	<b>0</b> 0	<b>3</b>	O <1	O 7
<b>WEA</b>	R METALS	5			
Iron	ppm	<b>37</b>	<b>60</b>	O 413	<b>46</b>
Copper	ppm	<b>7</b>	<b>O</b> 4	<b>36</b>	O 31
Lead	ppm	<b>0</b> 0	<b>0</b> 0	O <1	O 0
Tin	ppm	<b>0</b> 0	O 0	O 0	0
Aluminum	ppm	O <1	02	<b>7</b>	0 1
Chromium	ppm	<b>0</b> 0	0 0	<b>3</b>	0<1
Molybdenum	ppm	01	02	0 1	2
Nickel	ppm	<b>0</b>	0 0	0 2	0<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	O <1	0 1	O 5	1
Vanadium	ppm	<1	0	<1	0
ADD	ITIVES				
Calcium	ppm	O 50	O 33	O 71	185
Magnesium	ppm	<b>3</b> 3	0 8	02	3
Zinc		① 193	0 68	O 186	44
	ppm	637	O 767	O 1255	1941
Phosphorus	ppm			0 1255	5
Barium	ppm	0 0	0 0	_	
Boron	ppm	<b>4</b>	<b>15</b>	<b>89</b>	12



#### **BOISE WHITE PAPER**

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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.

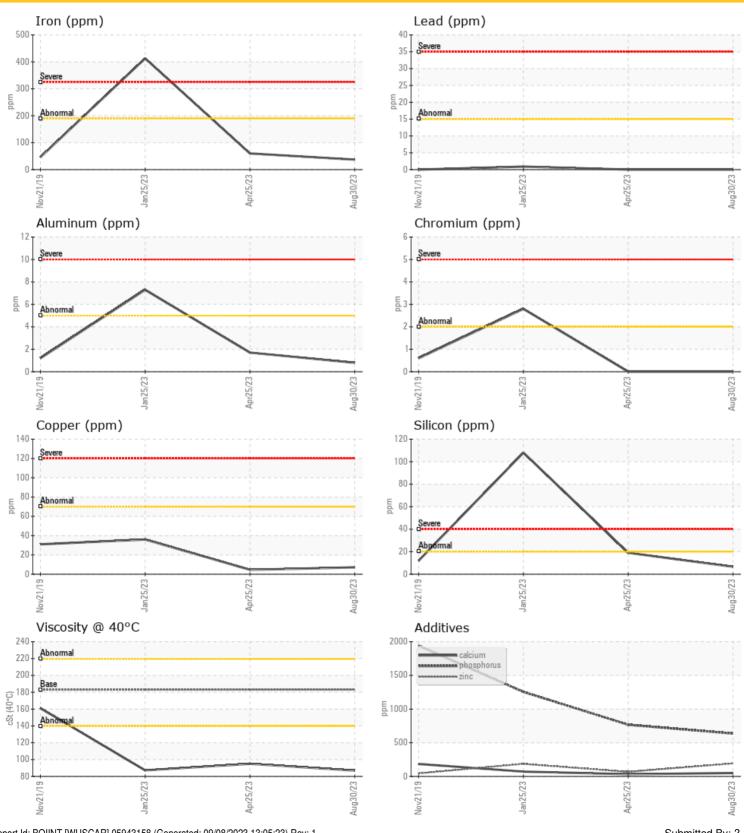
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#### **GRAPHS**



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