**CONSTRUCTION EQUIPMENT** 

# LIEBHERR R936 048753-1780 - Left Final Drive

Sample No: LH0220968

Oil Type: LIEBHERR GEAR BASIC 90 LS

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Sample Information					
Sample Number	1	LH0220968	LH0173881		
Sample Date		18 Apr 2024	01 Jul 2021		
Machine Hours		7977	844		
Oil Hours		0	844		
Oil Changed		Changed	Changed		
Sample Status		SEVERE	SEVERE		
Sample Status		OLVEILE	OLVERIL		
A 0110	E0-0				
OilC	ondition				
Visc @ 40°C	cSt	<b>178</b>	O 212		
Cont	amination				
		NEO	NEO		
Water	%	NEG	NEG		
Silicon	ppm	<b>477</b>	911		
Sodium	ppm	<b>8</b>	O 20		
Potassium	ppm	<b>28</b>	<b>4</b> 1		
Ø was					
Wea	r Metals				
Iron	ppm	<b>735</b>	O 769		
Copper	ppm	<b>0</b> 0	0 <1		
Lead	ppm	<b>0</b> 0	0 <1		
Tin	ppm	<b>0</b> 0	00		
Aluminum	ppm	O 108	95		
Chromium	ppm	<u> </u>	O 30		
Molybdenum	ppm	<b>0</b>	<b>3</b>		
Nickel	ppm	O <1	3		
Titanium	ppm	<b>11</b>	O 17		
Silver	ppm	0	0		
Manganese	ppm	<b>7</b>	<b>10</b>		
Vanadium	ppm	<1	<1		
Addi	itives				
Calcium	ppm	<b>73</b>	O 177		
Magnesium	ppm	<b>6</b>	O 14		
Zinc	ppm	0	11		
Phosphorus	ppm	<b>2374</b>	2062		
Barium	ppm	<b>0</b> 0	O 4		
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### LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE NEWPORT NEWS, VA

US 23607

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#### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: **LIEBHERRUS Unique No:** 11004481 Signed: Don Baldridge Report Date: 01 May 2024

 $\bigcirc$  0

ppm

Boron

# LIEBHERR

CONSTRUCTION EQUIPMENT





## **Graphs**

