LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R938 053625-1650 - Left Final Drive

Sample No: LH0272027

Oil Type: LIEBHERR GEAR BASIC 90 LS

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O Same	ple Inform	ation		
	pic iiiioi ii			
Sample Number		LH0272027	LH0200185	
Sample Date		23 Apr 2024	13 Oct 2022	
Machine Hours		2340	689	
Oil Hours		1600	689	
Oil Changed		Changed	Changed	
Sample Status		SEVERE	ABNORMAL	
Oil C	ondition			
Visc @ 40°C	cSt	269	O 195	
VISC @ 40 C	COL	209	0 195	
Cont	aminatio	n		
Water	%	0.572	NEG	
Silicon	ppm	6531	0 104	
Sodium	ppm	O 146	07	
Potassium	ppm	590	O 3	
	1-1-	0		
Ø Was				
wed	r Metals			
Iron	ppm	10261	O 295	
Copper	ppm	2	O <1	
Lead	ppm	1	0	
Tin	ppm	0 1	0	
Aluminum	ppm	1706	3 3	
Chromium	ppm	120	O 5	
Molybdenum	ppm	8	O <1	
Nickel	ppm	2 3	<1	
Titanium	ppm	93	3	
Silver	ppm	0	0	
Manganese	ppm	93	5	
Vanadium	ppm	2	<1	
Addi	tives			
		0		
Calcium	ppm	73	O 21	
Magnesium	ppm	63	0 0	
Zinc	ppm	31	3 0	
Phosphorus	ppm	2184	O 1317	
Barium	ppm	21	00	
Boron	ppm	7	0	



LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD RALEIGH, NC

US 27603

Contact: Timothy Bailey timothy.bailey@liebherr.com

T:

F: (919)329-0084

Diagnosis

We advise that you check for the source of water entry. 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron, chrome and nickel levels are severe. Gear wear is indicated. There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable due to the presence of contaminants.

Depot:LIEBHERRNCUnique No:10996213Signed:Don BaldridgeReport Date:29 Apr 2024

Submitted By: TAYLOR BLALOCK

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Graphs

