LIEBHERR

CONSTRUCTION EQUIPMENT



[[CABARRS]] LIEBHERR R946 045303-1491 - Right Final Drive

Sample No: LHMC110656

Oil Type: LIEBHERR GEAR BASIC 90 LS

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JSAM	PLE INFO	RMATION		
Sample Number		LHMC110656	LH0267611	
Sample Date		17 Oct 2023	21 Sep 2023	
Machine Hours		3575	3480	
Oil Hours		75	3480	
Oil Changed		Changed	Changed	
Sample Status		SEVERE	SEVERE	
<u> </u>				
OILC	ONDITIO	'N		
Visc @ 40°C	cSt	252	322	
CON	TAMINA	TION		
			0.7000	
Silicon	ppm	1903	7909	
Sodium	ppm	12	O 62	
Potassium	ppm	57	O 222	
(WEA	R METAL	.S		
Iron		3964	15175	
Copper	ppm	3964	0 10	
Lead	ppm	_	0 4	
Tin	ppm	○ <1	_	
Aluminum	ppm	○ 0 ○ 226	© 2	
	ppm	• •		
Chromium	ppm	47	120	
Molybdenum	ppm	O 5	O 23	
Nickel	ppm	22	0 77	
Titanium	ppm	30	O 126	
Silver	ppm	0	<1	
Manganese	ppm	33	O 137	
Vanadium	ppm	1	7	
ADD				
ADD	ITIVES			
Calcium	ppm	39	O 170	
Magnesium		O 11	0 60	
Zinc	ppm	0 3	0 8	
	ppm	2277	2302	
Phosphorus Barium	ppm	-		
	ppm	0 10	0 7	
Boron	ppm	4	O 6	



LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE NEWPORT NEWS, VA US 23607

Contact: LUKE APPLEBY Lucas.Appleby@liebherr.com

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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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot: LIEBHERRUS
Unique No: 10710231
Signed: Sean Felton
Report Date: 25 Oct 2023

CONSTRUCTION EQUIPMENT





GRAPHS

