



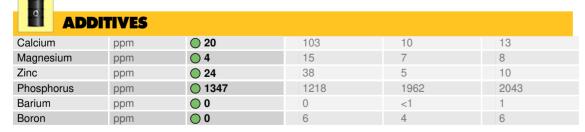
#### Sample No: LH0254110

**Oil Type:** LIEBHERR GEAR BASIC 90 LS

## **SAMPLE INFORMATION**

Sample Number		LH0254110	LH0207420	LHMC129108	LHMC121334	
Sample Date		20 Apr 2023	15 Jul 2022	28 Jun 2018	18 Sep 2017	
Machine Hours		3738	3190	1040	516	
Oil Hours		548	0	505	516	
Oil Changed		Changed	Not Changd	Changed	Changed	
Sample Status		ABNORMAL	SEVERE	ABNORMAL	NORMAL	
Visc @ 40°C	CNDITION cSt	<b>0</b> 359	○ 350	0 191.8	356.9	
Silicon	ppm	<mark>()</mark> 119	<b>5</b> 81	99	65	
Sodium	ppm	02	5	0 4	0 4	
Potassium	ppm	0 12	29	8	6	

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WEAR METALS								
Iron	ppm	0 457	0 1481	0 152	98			
Copper	ppm	◯ <1	◯ <1	◯ <1	○ <1			
Lead	ppm	0 🔘	◯ <1	0	0			
Tin	ppm	0 ()	○ <1	0 ()	0			
Aluminum	ppm	<u> </u>	0 140	<b>4</b> 7	26			
Chromium	ppm	05	0 17	0 2	01			
Molybdenum	ppm	<b>○</b> <1	1	<1	0			
Nickel	ppm	02	4	0	<1			
Titanium	ppm	2	0 11	3	2			
Silver	ppm	0	<1	0	0			
Manganese	ppm	05	13	1	1			
Vanadium	ppm	<1	<1	0	0			





#### ACECO

10119 RESIDENCY ROAD MANASSAS, VA US 20110 Contact: RON BROCK

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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. Resample at the next service interval to monitor.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress. The oil viscosity is higher than normal. Confirm oil type.

Depot:	ACEMAN		
Unique No:	10550488		
Signed:	Sean Felton		
Report Date:	12 Jul 2023		

Contact/Location: RON BROCK - ACEMAN





# **GRAPHS**



