## LIEBHERR

**CONSTRUCTION EQUIPMENT** 



### [[\$20230809040252]] LIEBHERR TA2304161 - Front Rear A1

**Sample No:** LH06059591

Oil Type: GEAR OIL SAE 80W90

SAM	PLE INF	ORMATION		
Sample Number		LH06059591	 	
Sample Date		30 Dec 2023	 	
Machine Hours		2804	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		ABNORMAL	 	
Visc @ 40°C	cSt	<b>ON</b> <ul> <li>○ 63.6</li> </ul>	 	
CON.	TAMIN/	ATION		
Water	%	NEG	 	
Silicon	ppm	<b>10</b>	 	
Sodium	ppm	<b>13</b>	 	
Potassium	ppm	<b>2</b>	 	
© WEA	R META	LS		

WEA	R METALS			
Iron	ppm	<b>186</b>	 	
Copper	ppm	<b>91</b>	 	
Lead	ppm	<b>1</b>	 	
Tin	ppm	<b>4</b>	 	
Aluminum	ppm	<b>2</b>	 	
Chromium	ppm	<b>2</b>	 	
Molybdenum	ppm	<1	 	
Nickel	ppm	<b>9</b>	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	<b>30</b>	 	
Vanadium	ppm	0	 	

ADDITIVES								
Calcium	ppm	<b>3561</b>						
Magnesium	ppm	<b>10</b>						
Zinc	ppm	<b>1506</b>						
Phosphorus	ppm	<b>1268</b>						
Barium	ppm	<b>3</b>						
Boron	ppm	<b>127</b>						



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#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot:LEC0051Unique No:10830973Signed:Jonathan HesterReport Date:16 Jan 2024

# LIEBHERR







#### **GRAPHS**

