

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40M 101800-1215 - Front Right Wheel Hub

Sample No: LH06042449

Oil Type: GEAR OIL SAE 80W90



**DIEHL AND NUEMAIER**  
 5466 NORWAY GROVE SCHOOL RD  
 DE FOREST, WI  
 US 53532  
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#### SAMPLE INFORMATION

Sample Number	LH06042449	LH05688610	LHMC98621	---
Sample Date	20 Dec 2023	07 Nov 2022	21 Nov 2019	---
Machine Hours	6013	5008	2034	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



#### OIL CONDITION

Visc @ 40°C	cSt	170	179	179	---
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	12	10	16	---
Sodium	ppm	26	27	16	---
Potassium	ppm	2	3	<1	---



#### WEAR METALS

Iron	ppm	175	127	138	---
Copper	ppm	18	18	32	---
Lead	ppm	0	<1	0	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	1	2	2	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	3	3	3	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	59	68	99	---
Magnesium	ppm	3	1	2	---
Zinc	ppm	26	30	47	---
Phosphorus	ppm	2117	2226	1935	---
Barium	ppm	0	0	<1	---
Boron	ppm	3	3	4	---

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: DIEDEF  
 Unique No: 10803057  
 Signed: Wes Davis  
 Report Date: 22 Dec 2023



### GRAPHS

