

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 118290-1216 - Rear Right Wheel Hub

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



**Weyerhaeuser**  
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 CA P9N 3X8  
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#### Sample Information

Sample Number	LH	LH0158916	LH0158902	LH0158888
Sample Date	10 Nov 2021	09 Oct 2021	05 Aug 2021	09 Jun 2021
Machine Hours	10280	9990	9041	8025
Oil Hours	290	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	153	162	156	155



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	2	2	3
Sodium	ppm	<1	2	1	2
Potassium	ppm	<1	1	<1	<1



#### Wear Metals

Iron	ppm	14	34	27	30
Copper	ppm	15	33	25	17
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	<1	1	<1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	<1	2	1	1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	29	2	3	2
Magnesium	ppm	<1	0	0	<1
Zinc	ppm	25	30	24	17
Phosphorus	ppm	2382	2297	2299	2201
Barium	ppm	0	0	0	<1
Boron	ppm	163	125	146	129

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

**Depot:** WEY100KEN  
**Unique No:** 5315511  
**Signed:** Wes Davis  
**Report Date:** 11 Nov 2021



### Graphs

