

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 118290-1216 - Rear Left 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	LH0158915	LH0158901	LH0158887
Sample Date	10 Nov 2021	09 Oct 2021	05 Aug 2021	09 May 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	155	162	157	155



#### Contamination

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



#### Wear Metals

Iron	ppm	16	33	25	29
Copper	ppm	6	27	20	12
Lead	ppm	<1	1	<1	<1
Tin	ppm	<1	<1	0	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	0	<1	<1	<1
Manganese	ppm	<1	1	1	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	28	2	2	2
Magnesium	ppm	<1	0	0	0
Zinc	ppm	18	26	22	14
Phosphorus	ppm	2390	2263	2285	2205
Barium	ppm	0	0	0	<1
Boron	ppm	147	124	145	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: 5315510  
 Signed: Wes Davis  
 Report Date: 11 Nov 2021



### Graphs

