

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 132404-1216 - Front Left Wheel Hub

Sample No: LH0223398

Oil Type: LIEBHERR GEAR BASIC 90 LS



**HUBERT & FILS**

474 ROUTE 105  
BOIS-FRANC, QC  
CA J9E 3A9

Contact: Eric Brisebois  
ericbrisebois99@gmail.com

T:  
F:



#### Sample Information

Sample Number	LH0223398	LH	LH	---
Sample Date	07 May 2024	26 Apr 2024	15 Mar 2024	---
Machine Hours	14071	13458	12925	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



#### Oil Condition

Visc @ 40°C	cSt	157	135	90.3	---
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#### Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	3	4	9	---
Sodium	ppm	4	3	1	---
Potassium	ppm	<1	<1	1	---



#### Wear Metals

Iron	ppm	38	44	47	---
Copper	ppm	15	12	6	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	3	---
Manganese	ppm	1	<1	0	---
Vanadium	ppm	0	0	0	---



#### Additives

Calcium	ppm	46	98	171	---
Magnesium	ppm	<1	1	1	---
Zinc	ppm	30	43	77	---
Phosphorus	ppm	2082	1956	1060	---
Barium	ppm	0	0	0	---
Boron	ppm	24	41	149	---

#### 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: HUBBOI  
Unique No: 5814314  
Signed: Kevin Marson  
Report Date: 19 Jul 2024



### Graphs

