

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-109092 - Rear Left Wheel Hub

Sample No: LHMC149927

Oil Type: GEAR OIL SAE 75W90



**AHLSTROM-MUNKSJO NA SPECIALTY**  
 PO BOX 600  
 KAUKAUNA, WI  
 US 54130  
 Contact: JOE SEITZ  
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#### Sample Information

Sample Number	LHMC149927	LHMC154042	LHMC149909	LHMC88113
Sample Date	15 May 2024	13 Apr 2023	11 Oct 2022	08 Oct 2019
Machine Hours	16447	14565	12880	2525
Oil Hours	16447	522	10355	1355
Oil Changed	Not Chngd	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	92.4	92.7	90.6	103



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	3	6	4
Sodium	ppm	3	3	3	2
Potassium	ppm	2	0	<1	<1



#### Wear Metals

Iron	ppm	147	112	93	31
Copper	ppm	64	50	46	28
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	1	1	2	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	3	3	2	2
Vanadium	ppm	<1	0	0	0



#### Additives

Calcium	ppm	32	27	32	22
Magnesium	ppm	1	0	<1	0
Zinc	ppm	55	21	41	22
Phosphorus	ppm	2358	2083	2220	1981
Barium	ppm	0	0	0	<1
Boron	ppm	338	307	298	232

#### 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: AHLKAU  
 Unique No: 11036613  
 Signed: Wes Davis  
 Report Date: 22 May 2024



### Graphs

