

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-109503 -Rear Differential

Sample No: LHMC163544

Oil Type: GEAR OIL SAE 75W90



**AHLSTROM-MUNKSJO NA SPECIALTY**  
 PO BOX 600  
 KAUKAUNA, WI  
 US 54130  
 Contact: JOE SEITZ  
 joe.seitz@ahlstrom-munksjo.com  
 T:  
 F:



#### SAMPLE INFORMATION

Sample Number	LHMC163544	LHMC162821	---	---
Sample Date	15 Sep 2023	23 Mar 2023	---	---
Machine Hours	6608	5400	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	● 150	● 151	---	---
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#### CONTAMINATION

Silicon	ppm	● 13	● 13	---	---
Sodium	ppm	● 8	● 6	---	---
Potassium	ppm	● 3	● <1	---	---



#### WEAR METALS

Iron	ppm	● 121	● 114	---	---
Copper	ppm	● 58	● 53	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 1	● 2	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● <1	● <1	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	● 0	● 0	---	---
Manganese	ppm	● 3	● 4	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	● 196	● 191	---	---
Magnesium	ppm	● 4	● 3	---	---
Zinc	ppm	● 64	● 64	---	---
Phosphorus	ppm	● 2139	● 2047	---	---
Barium	ppm	● 0	● <1	---	---
Boron	ppm	● 2	● 5	---	---

#### 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: 10660485  
 Signed: Don Baldrige  
 Report Date: 26 Sep 2023



### GRAPHS

