

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-123739 - Front Left Wheel Hub

Sample No: LH0211659

Oil Type: GEAR OIL SAE 75W90



**AHLSTROM-MUNKSJO NA SPECIALTY**  
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 KAUKAUNA, WI  
 US 54130  
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#### SAMPLE INFORMATION

Sample Number	LH0211659	LH0211645	LH0211631	LH0211617
Sample Date	10 Aug 2029	28 Mar 2023	18 Jan 2023	01 Nov 2022
Machine Hours	8617	7200	6180	5127
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	134	136	142	144
		●	●	●	●



#### CONTAMINATION

Element	ppm	21	21	17	17
Silicon	ppm	● 21	● 21	● 17	● 17
Sodium	ppm	● 12	● 15	● 10	● 12
Potassium	ppm	● 3	● 2	● 1	● 2



#### WEAR METALS

Element	ppm	628	427	217	268
Iron	ppm	● 628	● 427	● 217	● 268
Copper	ppm	● 52	● 29	● 64	● 40
Lead	ppm	● <1	● 0	● <1	● <1
Tin	ppm	● 0	● 0	● <1	● <1
Aluminum	ppm	● 4	● 3	● 4	● 3
Chromium	ppm	● 2	● 2	● 1	● 1
Molybdenum	ppm	● 1	● 2	● 2	● 2
Nickel	ppm	● <1	● <1	● <1	● <1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	● 7	● 6	● 5	● 5
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Element	ppm	221	236	206	251
Calcium	ppm	● 221	● 236	● 206	● 251
Magnesium	ppm	● 3	● 5	● 2	● 3
Zinc	ppm	● 102	● 96	● 96	● 91
Phosphorus	ppm	● 2027	● 1982	● 1873	● 2170
Barium	ppm	● 0	● 0	● 3	● 0
Boron	ppm	● 11	● 21	● 15	● 13

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other 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: 10604517  
 Signed: Sean Felton  
 Report Date: 16 Aug 2023



### GRAPHS

