

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-123739 - Swing Drive

Sample No: LH0211657

Oil Type: GEAR OIL SAE 75W90



#### SAMPLE INFORMATION

Sample Number	LH0211657	LH0211643	LH0211629	LH0211615
Sample Date	09 Aug 2023	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	NORMAL	NORMAL	NORMAL	NORMAL

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



#### OIL CONDITION

Visc @ 40°C	cSt	165	167	113	169
-------------	-----	-----	-----	-----	-----



#### CONTAMINATION

Silicon	ppm	2	1	<1	3
Sodium	ppm	6	5	<1	6
Potassium	ppm	2	<1	<1	2



#### WEAR METALS

Iron	ppm	321	235	2	189
Copper	ppm	171	154	<1	113
Lead	ppm	1	0	<1	<1
Tin	ppm	16	10	<1	8
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	1	0	1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	3	3	0	2
Vanadium	ppm	<1	0	0	0



#### ADDITIVES

Calcium	ppm	36	42	<1	45
Magnesium	ppm	1	4	0	2
Zinc	ppm	46	40	3	39
Phosphorus	ppm	2282	2152	1904	2321
Barium	ppm	4	8	2	7
Boron	ppm	38	45	289	38

#### 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: 10615845  
 Signed: Sean Felton  
 Report Date: 23 Aug 2023



### GRAPHS

