

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-123739 - Swing Drive

Sample No: LH0211685

Oil Type: GEAR OIL SAE 75W90



**AHLSTROM-MUNKSJO NA SPECIALTY**  
 PO BOX 600  
 KAUKAUNA, WI  
 US 54130  
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#### SAMPLE INFORMATION

Sample Number	LH0211685	LH0211657	LH0211643	LH0211629
Sample Date	31 Jan 2024	09 Aug 2023	28 Mar 2023	18 Jan 2023
Machine Hours	10743	8617	7200	6180
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	164	165	167	113



#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	376	321	235	2
Copper	ppm	240	171	154	<1
Lead	ppm	0	1	0	<1
Tin	ppm	22	16	10	<1
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	2	2	1	0
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	4	3	3	0
Vanadium	ppm	0	<1	0	0



#### ADDITIVES

Calcium	ppm	39	36	42	<1
Magnesium	ppm	2	1	4	0
Zinc	ppm	58	46	40	3
Phosphorus	ppm	2218	2282	2152	1904
Barium	ppm	9	4	8	2
Boron	ppm	63	38	45	289

#### 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: 10871838  
 Signed: Sean Felton  
 Report Date: 12 Feb 2024



### GRAPHS

