# CONSTRUCTION EQUIPMENT

### LIEBHERR LH110CP 134678-1228 - Swing Drive

Sample No: LH0244663

Oil Type: GEAR OIL SAE 80W90

## SAMPLE INFORMATION

Sample Number	LH0244663	LH0243292	LH0217055	
Sample Date	11 Jan 2024	10 Jul 2023	31 May 2022	
Machine Hours	4973	3458	1000	
Oil Hours	0	0	1000	
Oil Changed	Changed	Not Changd	N/A	
Sample Status	NORMAL	NORMAL	NORMAL	
OIL CONDITION				
Visc@40°C cSt	<b>0</b> 186	0 190	173	

Water	%	NEG	NEG	NEG	
Silicon	ppm	01	0 2	5	
Sodium	ppm	0 🔘	0 1	◯ <1	
Potassium	ppm	<b>○</b> <1	○ <1	○ <1	

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WEA	R META	LS			
Iron	ppm	<b>5</b> 6	28	0 49	
Copper	ppm	080	62	0 16	
Lead	ppm	0	0	0	
Tin	ppm	<b>0</b> 15	08	◯ <1	
Aluminum	ppm	0 2	○ <1	0	
Chromium	ppm	<b>○</b> <1	○ <1	◯ <1	
Molybdenum	ppm	<b>○</b> <1	0	<1	
Nickel	ppm	0	0	0	
Titanium	ppm	<1	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	<b>○</b> <1	<1	<1	
Vanadium	ppm	0	0	0	

ADDITIVES					
Calcium	ppm	0 12	9	22	
Magnesium	ppm	0 🔘	2	<1	
Zinc	ppm	0	10	19	
Phosphorus	ppm	0 2334	2547	2253	
Barium	ppm	0 🔘	0	2	
Boron	ppm	0 2	5	3	





**RECO EQUIPMENT INC.** 

1040 REED DRIVE MONROE, OH US 45050 Contact: Eric Hansen ehansen@recoequip.com T: (513)539-5255 F: (513)539-5256

#### 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:	LEC0075
Unique No:	10832926
Signed:	Don Baldridge
Report Date:	17 Jan 2024

Contact/Location: Eric Hansen - LEC0075





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GRAPHS

#### Ferrous Alloys 60. iron 55 chromium 50 nickel 45 40 35 ۲d 30 25 20 15 10 5 0. Jul10/23 Jan11/24 May31/22 Non-ferrous Metals 80 copper 70 lead 60 50 튭 40· 30 20 10 0 Jul10/23 Jan 11/24 May31 Viscosity @ 40°C 200 190 Abnorma 180 170 (40°C) St (40°C) St (50 Ba 140 130 120 Abnormal 110 Jan 11/24 -Jul10/23 May31/22

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