

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C106512-1528 - Swing Drive

Sample No: LH0288231

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### Sample Information

Sample Number	LH0288231	LH0278579	LH	LH0234439
Sample Date	29 Apr 2024	05 Jan 2024	23 Aug 2023	12 Jun 2023
Machine Hours	23144	21976	0	19187
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

**Gerdau - Mandak Metal Processors Ltd.,**  
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#### Oil Condition

Visc @ 40°C	cSt	162	229	148	103
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#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	5	2	2
Sodium	ppm	<1	1	<1	<1
Potassium	ppm	<1	<1	<1	<1



#### Wear Metals

PQ		---	248	---	---
Iron	ppm	667	1432	558	191
Copper	ppm	187	123	37	26
Lead	ppm	4	3	2	<1
Tin	ppm	3	3	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	6	15	6	2
Molybdenum	ppm	3	0	<1	<1
Nickel	ppm	<1	2	1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	4	10	4	1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	55	7	13	9
Magnesium	ppm	58	1	1	2
Zinc	ppm	73	11	11	10
Phosphorus	ppm	2143	2143	1798	1240
Barium	ppm	0	0	0	0
Boron	ppm	43	38	36	285

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: MANSEL  
 Unique No: 5774438  
 Signed: Wes Davis  
 Report Date: 03 May 2024



### Graphs

