

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C106512-1528 - Left Final Drive

Sample No: LH0234441

Oil Type: LIEBHERR GEAR BASIC 90 LS



**Gerdau - Mandak Metal Processors Ltd.,**  
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#### SAMPLE INFORMATION

Sample Number	LH0234441	LH0150844	LH	LH0234351
Sample Date	12 Jun 2023	06 Mar 2023	09 Nov 2022	15 Sep 2022
Machine Hours	19187	17907	0	15955
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	178	183	181	178
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#### CONTAMINATION

Silicon	ppm	5	10	66	18
Sodium	ppm	2	3	4	2
Potassium	ppm	<1	<1	3	<1



#### WEAR METALS

Iron	ppm	21	28	160	55
Copper	ppm	3	2	6	4
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	3	20	6
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	1	<1
Titanium	ppm	0	<1	2	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	1	8	2
Vanadium	ppm	0	0	<1	<1



#### ADDITIVES

Calcium	ppm	21	32	154	54
Magnesium	ppm	5	5	39	12
Zinc	ppm	6	7	10	6
Phosphorus	ppm	2325	2437	2415	2369
Barium	ppm	0	0	0	0
Boron	ppm	6	23	6	6

#### 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: MANSEL  
 Unique No: 5606499  
 Signed: Wes Davis  
 Report Date: 12 Jul 2023



### GRAPHS

