

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 152978 - Swing Drive

Sample No: LH0288199

Oil Type: LIEBHERR GEAR BASIC 90 LS



**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
 Contact: Steve Lehto  
 steve.lehto@liebherr.com  
 T: (905)319-9222  
 F: (905)319-6617



#### Sample Information

Sample Number	LH0288199	LH0224301	---	---
Sample Date	09 Apr 2024	15 Feb 2024	---	---
Machine Hours	1107	556	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



#### Oil Condition

Visc @ 40°C	cSt	● 182	● 188	---	---
-------------	-----	-------	-------	-----	-----



#### Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 8	● 4	---	---
Sodium	ppm	● 3	● 2	---	---
Potassium	ppm	● <1	● <1	---	---



#### Wear Metals

Iron	ppm	● 223	● 109	---	---
Copper	ppm	● 100	● 48	---	---
Lead	ppm	● 2	● 2	---	---
Tin	ppm	● 8	● 3	---	---
Aluminum	ppm	● 2	● 1	---	---
Chromium	ppm	● 1	● <1	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 2	● <1	---	---
Vanadium	ppm	0	0	---	---



#### Additives

Calcium	ppm	23	27	---	---
Magnesium	ppm	● 1	● 2	---	---
Zinc	ppm	25	21	---	---
Phosphorus	ppm	● 2186	● 2311	---	---
Barium	ppm	● 8	● 8	---	---
Boron	ppm	● 15	● 3	---	---

#### 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: LIEMIS  
 Unique No: 5774033  
 Signed: Wes Davis  
 Report Date: 02 May 2024



### Graphs

