

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 1204-74217 - Rear Differential

Sample No: LH0268895

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### Sample Information

Sample Number	LH0268895	LH0235995	LHMC121041	LHMC106117
Sample Date	09 Apr 2024	26 Aug 2022	10 Aug 2017	24 May 2016
Machine Hours	14693	0	8752	4556
Oil Hours	1000	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

**MIDDLE RIVER MARINE**  
 1771 SOUTH TORRENCE AVE  
 CHICAGO, IL  
 US 60617  
 Contact: Scott Molitor  
 scottmolitor@gomiddleriver.com  
 T:  
 F:



#### Oil Condition

Visc @ 40°C	cSt	127	149	189.1	180.8
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#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	<1	4	5
Sodium	ppm	<1	0	2	2
Potassium	ppm	0	<1	2	2



#### Wear Metals

Iron	ppm	4	8	137	126
Copper	ppm	2	4	36	32
Lead	ppm	0	0	0	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	0	<1	1	1
Chromium	ppm	<1	0	2	2
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	<1	1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	2	2
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	30	11	14	6
Magnesium	ppm	<1	6	3	1
Zinc	ppm	11	2	24	22
Phosphorus	ppm	727	735	961	1070
Barium	ppm	0	0	235	336
Boron	ppm	51	14	26	2

#### Diagnosis

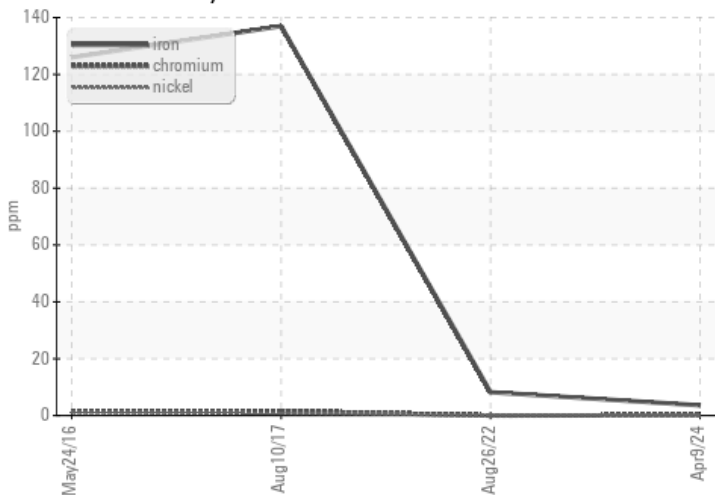
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

**Depot:** MIDCHIL  
**Unique No:** 11004464  
**Signed:** Sean Felton  
**Report Date:** 01 May 2024

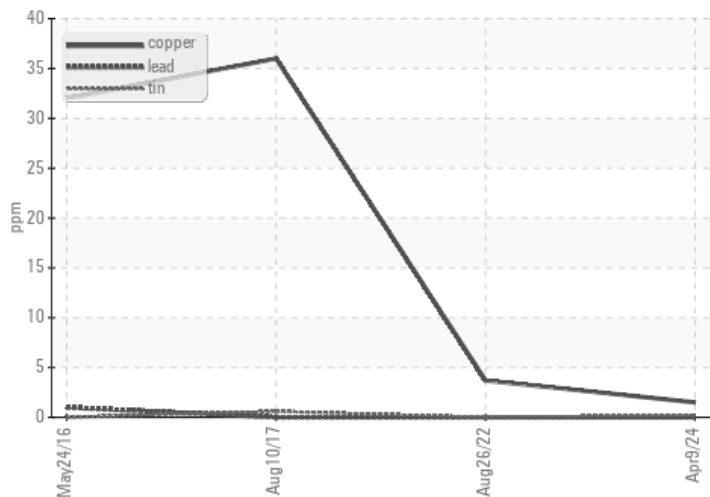


### Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

