

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 1204-74217 - Front Differential

Sample No: LH0268894

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### Sample Information

Sample Number	LH0268894	LH0235975	LHMC121040	LHMC80524
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	NORMAL	ABNORMAL	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	126	146	182.6	184.0
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#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	1	10	8
Sodium	ppm	0	0	1	2
Potassium	ppm	0	<1	<1	0



#### Wear Metals

Iron	ppm	2	5	35	32
Copper	ppm	10	41	384	337
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	<1	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	1	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	7	16	7	11
Magnesium	ppm	0	8	2	1
Zinc	ppm	2	23	341	220
Phosphorus	ppm	617	646	968	1036
Barium	ppm	0	0	180	264
Boron	ppm	23	18	2	<1

#### Diagnosis

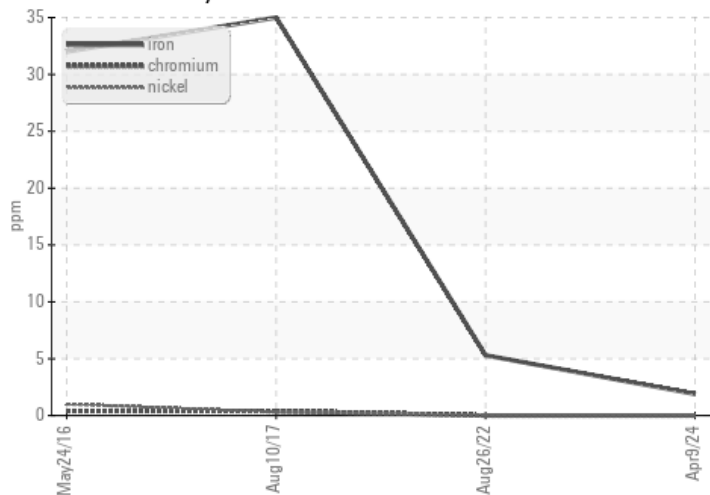
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** MIDCHIL  
**Unique No:** 11004474  
**Signed:** Don Baldrige  
**Report Date:** 01 May 2024

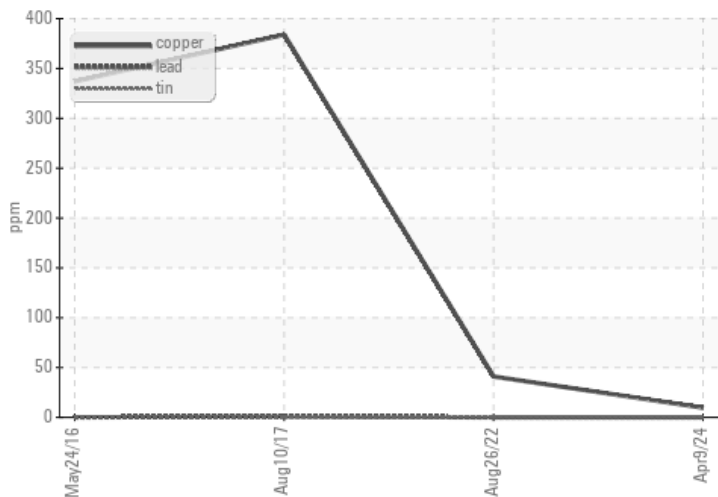


### Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

