

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 1204-74217 - Rear Left Wheel Hub

Sample No: LH06163743

Oil Type: GEAR OIL SAE 80W90



**MIDDLE RIVER MARINE**  
 1771 SOUTH TORRENCE AVE  
 CHICAGO, IL  
 US 60617  
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 T:  
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#### Sample Information

Sample Number	LH06163743	LHMC121031	LHMC92423	LHMC80517
Sample Date	09 Apr 2024	10 Aug 2017	31 Mar 2017	24 May 2016
Machine Hours	14693	8752	7383	4556
Oil Hours	1000	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	128	186.3	197.3	184.3
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#### Contamination

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



#### Wear Metals

Iron	ppm	6	142	126	128
Copper	ppm	2	37	35	32
Lead	ppm	0	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	0	2	1	2
Chromium	ppm	<1	2	2	2
Molybdenum	ppm	2	0	0	0
Nickel	ppm	0	<1	1	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	2	2	2
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	74	8	7	6
Magnesium	ppm	2	1	2	<1
Zinc	ppm	21	22	22	21
Phosphorus	ppm	740	972	877	1066
Barium	ppm	0	241	282	333
Boron	ppm	54	27	3	1

#### Diagnosis

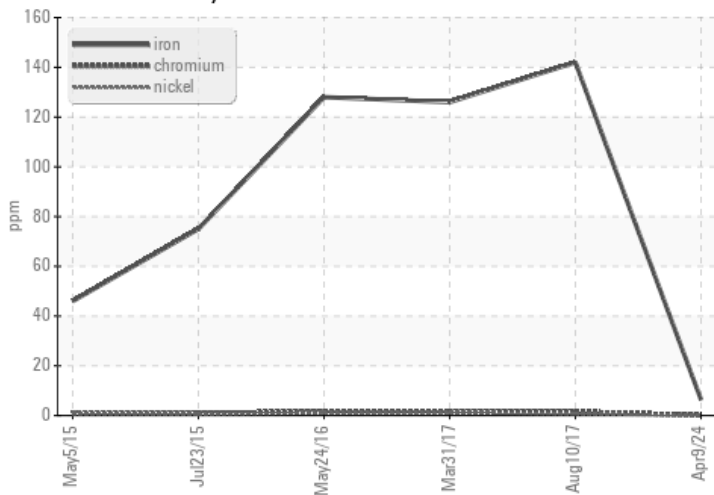
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: MIDCHIL  
 Unique No: 11004462  
 Signed: Wes Davis  
 Report Date: 30 Apr 2024

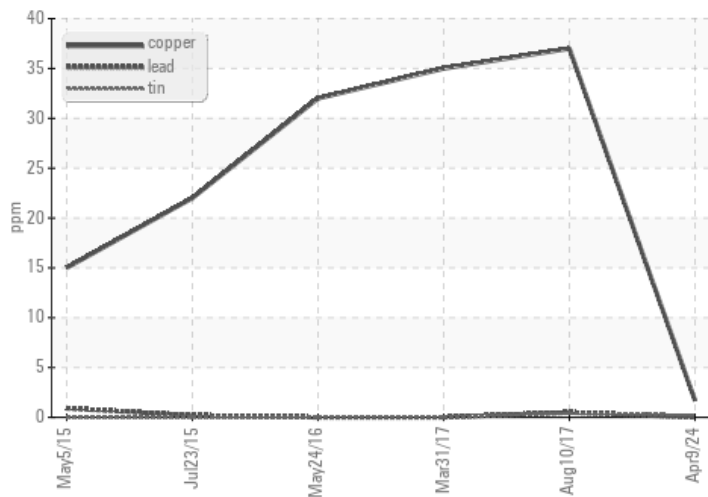


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

