

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 1204-75634 - Rear Differential

Sample No: LH0243403

Oil Type: LIEBHERR GEAR BASIC 90 LS



**AMERICAN STATE EQUIPMENT CO.**  
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#### SAMPLE INFORMATION

Sample Number	<b>LH0243403</b>	LH0207643	LH0185374	LHMC133320
Sample Date	<b>10 Aug 2023</b>	16 Mar 2022	27 Aug 2021	06 Dec 2019
Machine Hours	<b>15947</b>	15048	13973	11965
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	● 177	● 193	● 187	130
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#### CONTAMINATION

Silicon	ppm	● 0	● <1	● 0	● 1
Sodium	ppm	● 2	● 3	● 2	● <1
Potassium	ppm	● 0	● 0	● <1	● 7



#### WEAR METALS

Iron	ppm	● 3	● 4	● 6	● 4
Copper	ppm	● 2	● 2	● 6	● 6
Lead	ppm	● 0	● 0	● 0	● 0
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● 0	● 0	● 0	● 0
Chromium	ppm	● 0	● 0	● 0	● <1
Molybdenum	ppm	● 0	● 0	● 0	● 1
Nickel	ppm	● 0	0	0	0
Titanium	ppm	0	0	0	1
Silver	ppm	0	0	0	0
Manganese	ppm	● 0	● 0	● 0	● 0
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	● 11	● 6	● 23	● 74
Magnesium	ppm	● 2	● <1	● 2	● 27
Zinc	ppm	● 7	● 2	● 13	● 54
Phosphorus	ppm	● 2496	● 2331	● 2451	● 1630
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● <1	● 5	● 45	● 272

#### Diagnosis

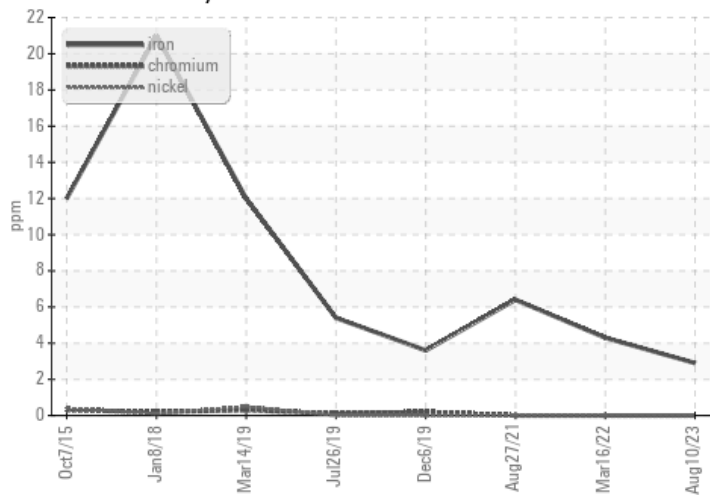
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10608979  
 Signed: Sean Felton  
 Report Date: 21 Aug 2023

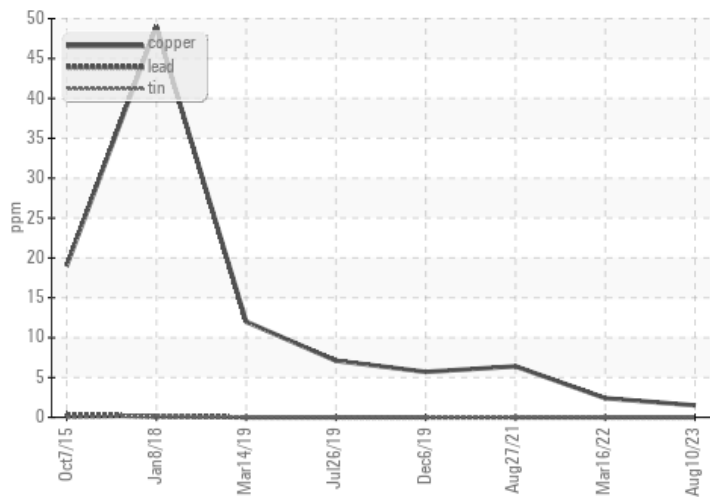


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

