

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-98638 - Rear Left Wheel Hub

Sample No: LH0268264

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0268264	LH0263939	LH0245054	LH0221005
Sample Date	25 Jan 2024	17 Aug 2023	29 Mar 2023	29 Sep 2022
Machine Hours	13406	12191	11277	10101
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**AMERICAN STATE EQUIPMENT CO.**  
 2055 SOUTH 108TH STREET  
 MILWAUKEE, WI  
 US 53227  
 Contact: RAY SCHMIDT  
 RSCHMIDT@AMSTATE.COM  
 T: (414)234-0854  
 F: (414)541-1892



#### OIL CONDITION

Visc @ 40°C	cSt	121	123	136	191
-------------	-----	-----	-----	-----	-----



#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	27	34	24	72
Copper	ppm	1	6	4	11
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	0	0	1	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

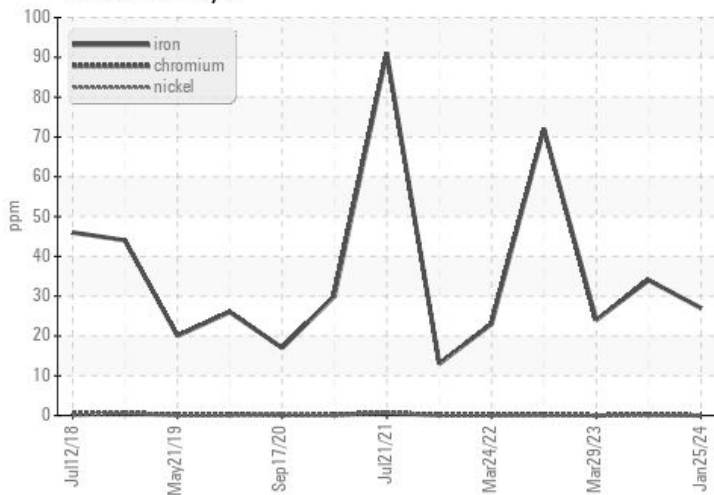
Calcium	ppm	21	41	29	9
Magnesium	ppm	0	10	3	<1
Zinc	ppm	8	30	12	13
Phosphorus	ppm	797	1017	911	2293
Barium	ppm	0	0	0	0
Boron	ppm	<1	3	2	2

Depot: LEC0007  
 Unique No: 10857282  
 Signed: Sean Felton  
 Report Date: 01 Feb 2024

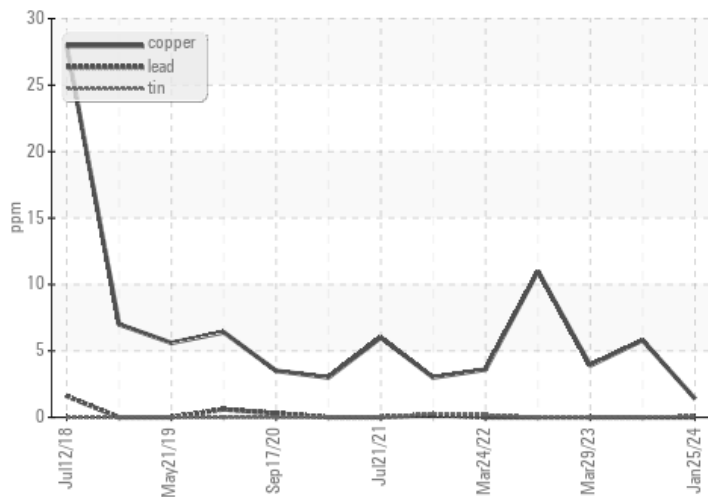


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

