

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-108671 - Pump Drive

Sample No: LH0258881

Oil Type: GEAR OIL LS 80W90



**AMERICAN STATE EQUIPMENT CO.**  
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#### Sample Information

Sample Number	LH0258881	LH0263998	LH0272541	LH0243422
Sample Date	05 Apr 2024	14 Dec 2023	01 Nov 2023	05 Sep 2023
Machine Hours	20592	19125	18598	17864
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	107	107	107	112
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#### Contamination

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



#### Wear Metals

Iron	ppm	36	5	8	16
Copper	ppm	7	0	0	0
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	0	0	0	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	81	88	84	69
Magnesium	ppm	4	4	3	14
Zinc	ppm	73	74	83	33
Phosphorus	ppm	873	821	712	680
Barium	ppm	0	0	0	0
Boron	ppm	15	1	3	4

#### Diagnosis

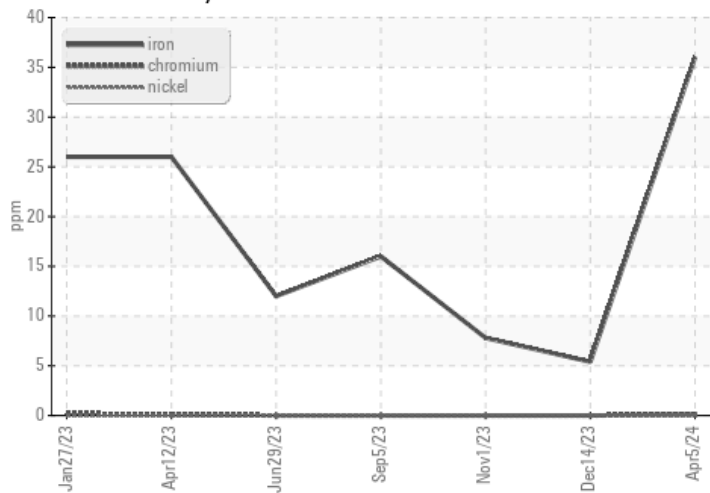
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10992569  
 Signed: Wes Davis  
 Report Date: 23 Apr 2024

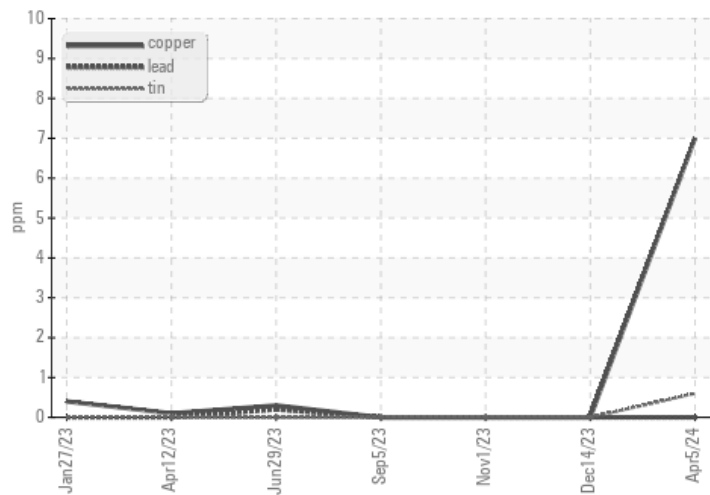


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

