

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-108671 - Pump Drive

Sample No: LH0263998

Oil Type: GEAR OIL LS 80W90



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

Sample Number	LH0263998	LH0272541	LH0243422	LH0263826
Sample Date	14 Dec 2023	01 Nov 2023	05 Sep 2023	29 Jun 2023
Machine Hours	19125	18598	17864	17296
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	107	107	112	115



#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	5	8	16	12
Copper	ppm	0	0	0	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	0	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	88	84	69	79
Magnesium	ppm	4	3	14	14
Zinc	ppm	74	83	33	41
Phosphorus	ppm	821	712	680	693
Barium	ppm	0	0	0	2
Boron	ppm	1	3	4	6

#### Diagnosis

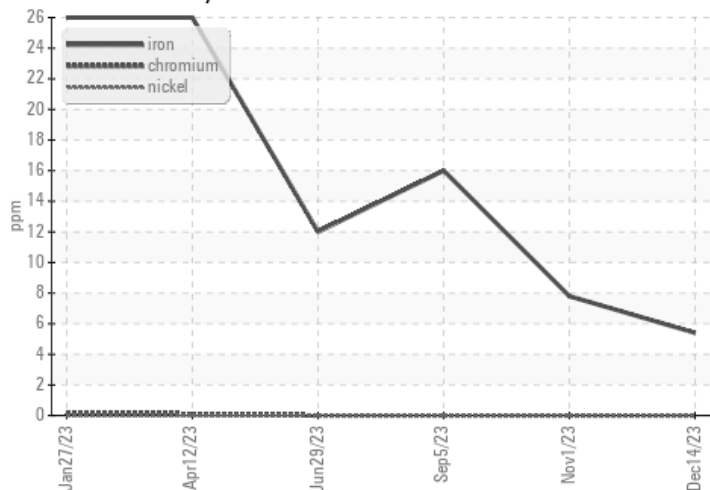
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10806322  
 Signed: Don Baldrige  
 Report Date: 28 Dec 2023

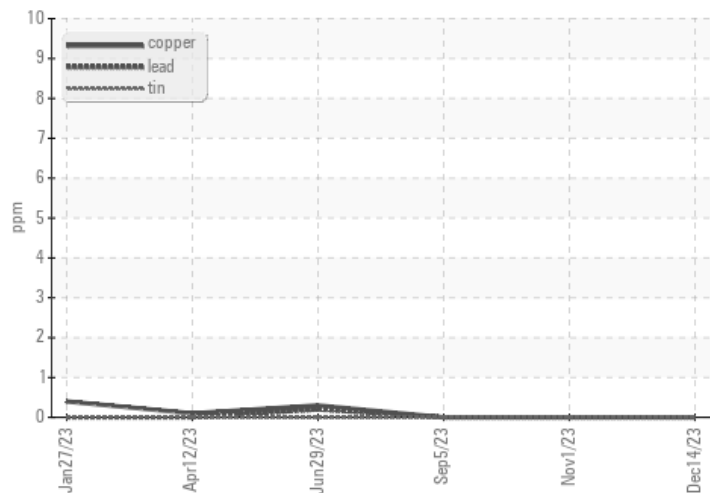


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

