

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 119208-1217 - Swing Drive

Sample No: LH0267393

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0267393	LH0257446	LH0200267	---
Sample Date	04 Jan 2024	05 Jul 2023	30 Nov 2022	---
Machine Hours	4478	3275	1763	---
Oil Hours	1203	700	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---

#### TT & E IRON

1529 WEST GARNER RD  
GARNER, NC  
US 27529  
Contact: MICHAEL STANCIL  
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T: (919)524-4326  
F:



#### OIL CONDITION

Visc @ 40°C	cSt	219	172	153	---
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#### CONTAMINATION

Water	%	0.701	NEG	0.152	---
Silicon	ppm	4	<1	2	---
Sodium	ppm	0	1	2	---
Potassium	ppm	1	0	0	---

#### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	854	320	452	---
Copper	ppm	116	49	67	---
Lead	ppm	<1	0	<1	---
Tin	ppm	5	3	2	---
Aluminum	ppm	2	1	1	---
Chromium	ppm	9	3	5	---
Molybdenum	ppm	1	<1	<1	---
Nickel	ppm	1	<1	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	7	4	4	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

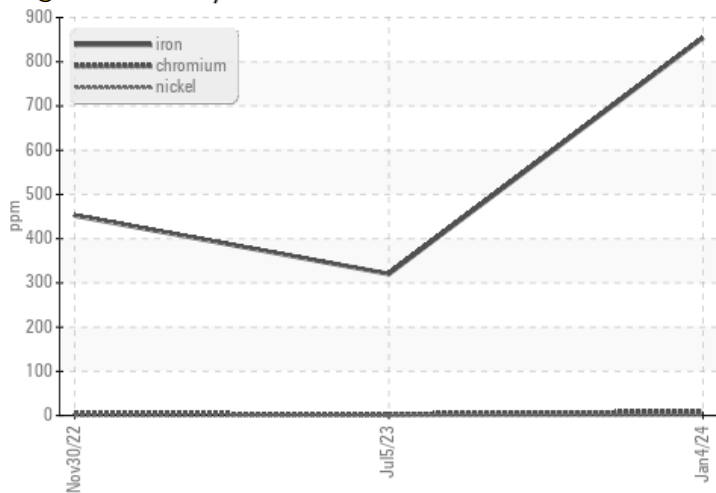
Calcium	ppm	74	6	21	---
Magnesium	ppm	2	14	<1	---
Zinc	ppm	46	0	7	---
Phosphorus	ppm	2118	2127	1337	---
Barium	ppm	8	0	<1	---
Boron	ppm	34	54	85	---

Depot: TTENEW  
Unique No: 10820329  
Signed: Jonathan Hester  
Report Date: 10 Jan 2024

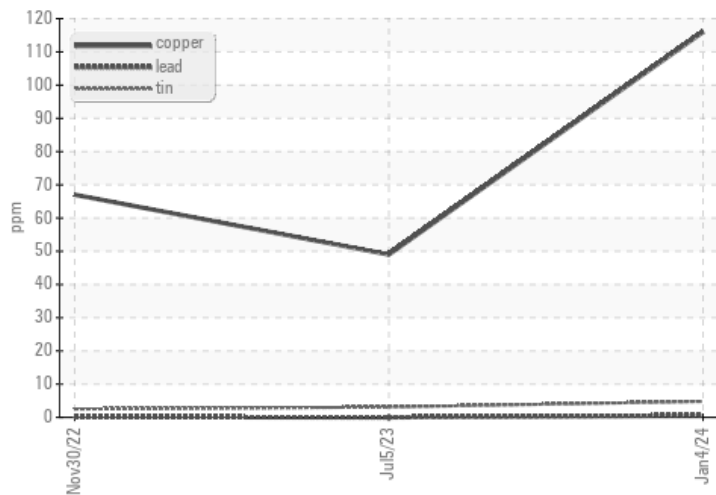


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

