

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60 122926-1217 - Swing Drive

Sample No: LH0268846

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0268846	LH0267441	LH0243920	LH0254142
Sample Date	28 Jan 2024	19 Jul 2023	23 Apr 2023	26 Mar 2023
Machine Hours	3407	2976	2782	2713
Oil Hours	3407	2976	2782	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

**SIMS METAL MANAGEMENT**  
 3220 DEEPWATER TERMINAL RD  
 RICHMOND, VA  
 US 23234  
 Contact: Service Manager



#### OIL CONDITION

Visc @ 40°C	cSt	246	198	188	213
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T: (703)392-0111  
 F:



#### CONTAMINATION

Water	%	NEG	0.491	NEG	0.108
Silicon	ppm	3	2	1	2
Sodium	ppm	2	2	0	1
Potassium	ppm	0	3	1	<1

#### Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	547	295	147	217
Copper	ppm	45	80	66	86
Lead	ppm	0	0	<1	0
Tin	ppm	1	2	2	2
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	5	3	2	2
Molybdenum	ppm	<1	7	6	9
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	2	2	3
Silver	ppm	0	0	0	0
Manganese	ppm	4	3	1	2
Vanadium	ppm	0	0	0	0



#### ADDITIVES

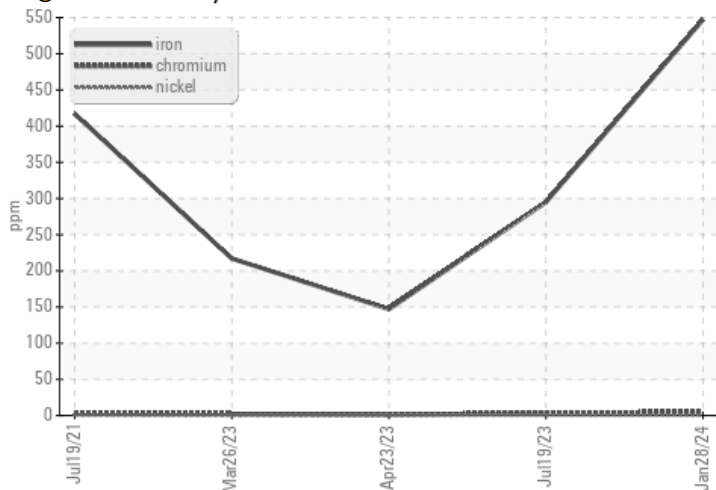
Calcium	ppm	117	181	148	267
Magnesium	ppm	36	70	66	115
Zinc	ppm	45	104	86	162
Phosphorus	ppm	2539	1725	1673	1215
Barium	ppm	0	0	0	0
Boron	ppm	27	70	82	19

Depot: SIMRCLH  
 Unique No: 10903854  
 Signed: Don Baldrige  
 Report Date: 04 Mar 2024

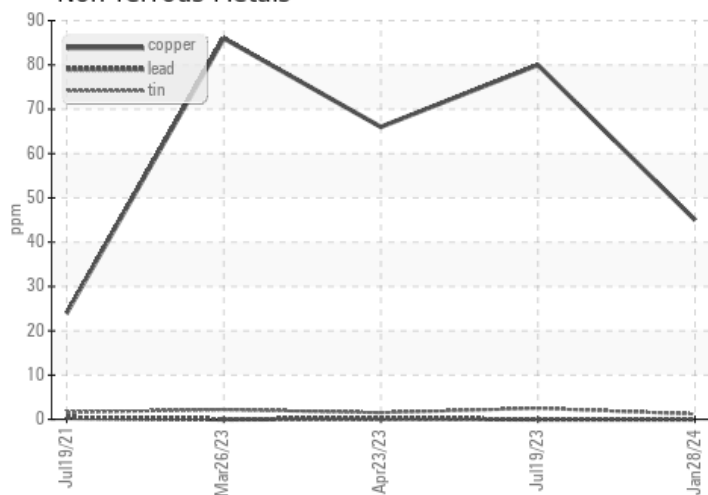


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

