

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60 122926-1217 - Hydraulic System

Sample No: LH0268844

Oil Type: LIEBHERR HYDRAULIC HVI



#### SAMPLE INFORMATION

Sample Number	LH0268844	LH0267444	LH0254140	LH0190942
Sample Date	28 Jan 2024	19 Jul 2023	26 Mar 2023	19 Jul 2021
Machine Hours	3407	2976	2713	516
Oil Hours	3407	1000	0	0
Oil Changed	Not Changd	Not Changd	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

#### SIMS METAL MANAGEMENT

3220 DEEPWATER TERMINAL RD  
RICHMOND, VA  
US 23234  
Contact: Service Manager



#### OIL CONDITION

Visc @ 40°C	cSt	46.5	46.2	38.2	45.9
Acid Number (AN)	mg KOH/g	0.95	1.03	1.35	1.208

T: (703)392-0111  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2577	13801	2655	26112
Particles >6µm		455	4156	446	4543
Particles >14µm		39	382	9	84
ISO 4406:1999 (c)		19/16/12	21/19/16	19/16/10	22/19/14
Silicon	ppm	2	2	<1	1
Sodium	ppm	5	4	4	<1
Potassium	ppm	0	2	<1	1

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal for time on oil. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### WEAR METALS

Iron	ppm	40	36	34	11
Copper	ppm	21	18	14	4
Lead	ppm	2	2	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	0	0	0



#### ADDITIVES

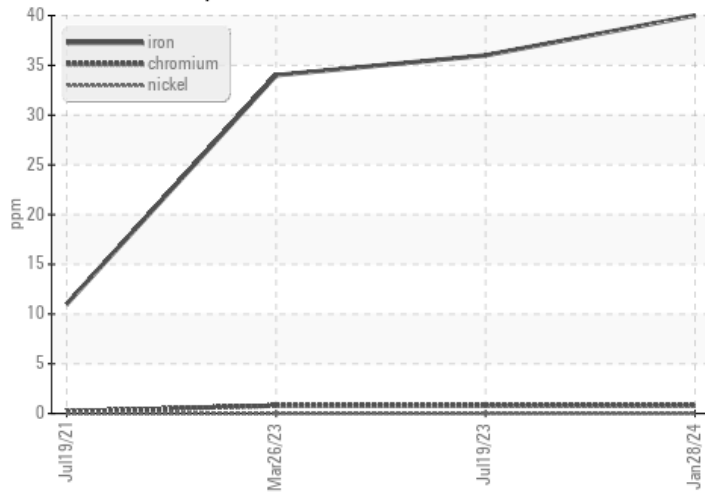
Calcium	ppm	1050	1148	1195	1420
Magnesium	ppm	4	2	6	6
Zinc	ppm	639	666	620	717
Phosphorus	ppm	517	545	525	618
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	1

Depot: SIMRCLH  
Unique No: 10903348  
Signed: Don Baldrige  
Report Date: 04 Mar 2024

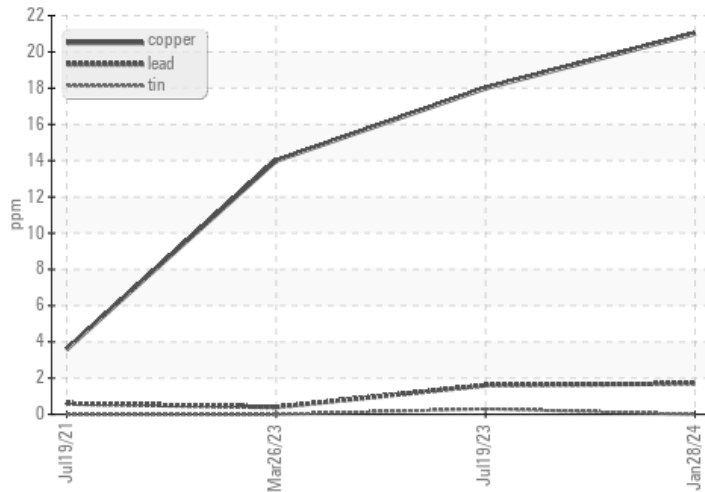


### GRAPHS

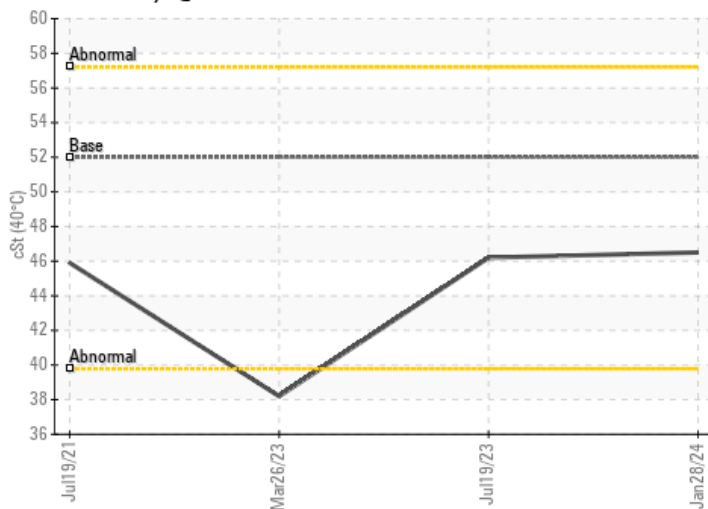
#### Ferrous Alloys



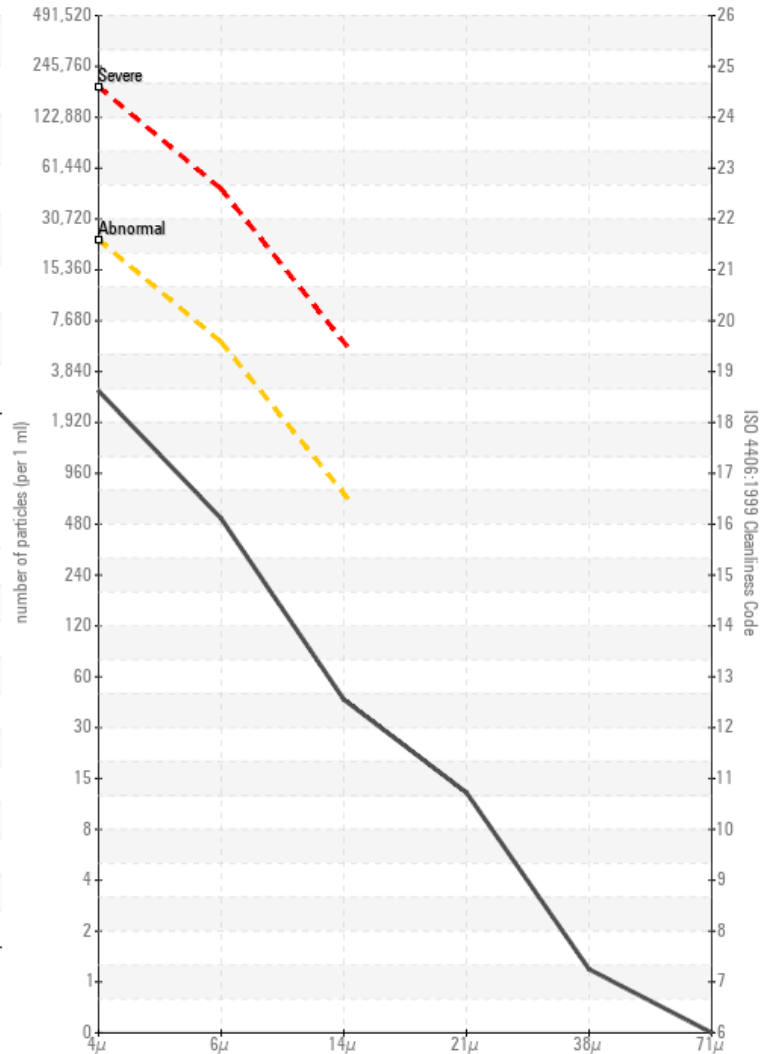
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

