

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 119411-1216 - Hydraulic System

Sample No: LH0268843

Oil Type: LIEBHERR HYDRAULIC HVI



#### SAMPLE INFORMATION

Sample Number	LH0268843	LH0264639	LH0253951	LH0172059
Sample Date	28 Jan 2024	18 Jul 2023	01 Mar 2023	23 Mar 2021
Machine Hours	5692	4944	4520	1989
Oil Hours	5692	1000	4520	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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



#### OIL CONDITION

Visc @ 40°C	cSt	54.5	54.4	54.4	50.1
Acid Number (AN)	mg KOH/g	0.67	0.73	0.62	0.973

T: (703)392-0111  
 F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2454	601	3194	1861
Particles >6µm		467	183	1012	479
Particles >14µm		25	16	79	47
ISO 4406:1999 (c)		18/16/12	16/15/11	19/17/13	18/16/13
Silicon	ppm	2	2	2	1
Sodium	ppm	4	2	1	<1
Potassium	ppm	0	2	0	<1

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### WEAR METALS

Iron	ppm	29	19	15	13
Copper	ppm	4	3	2	2
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	<1	<1
Molybdenum	ppm	0	<1	<1	<1
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

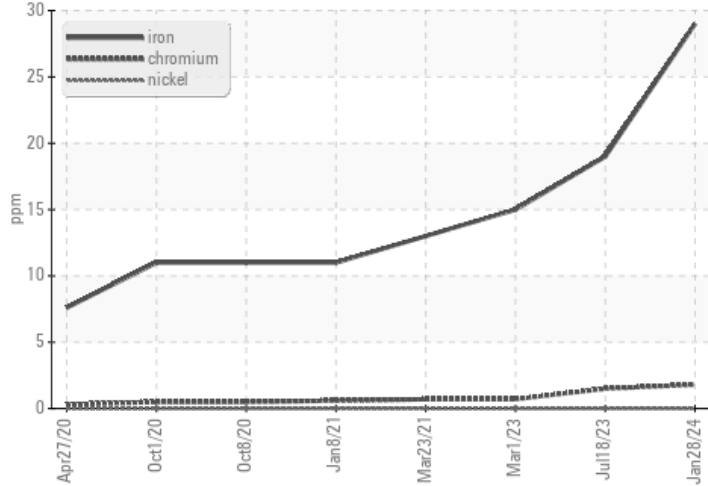
Calcium	ppm	582	559	574	864
Magnesium	ppm	2	<1	7	6
Zinc	ppm	593	558	498	637
Phosphorus	ppm	450	437	414	489
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	0	2

Depot: SIMRICLH  
 Unique No: 10903347  
 Signed: Wes Davis  
 Report Date: 01 Mar 2024

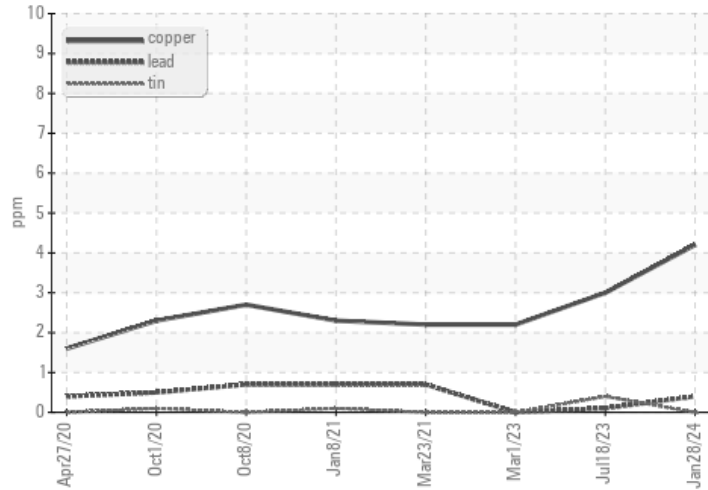


### GRAPHS

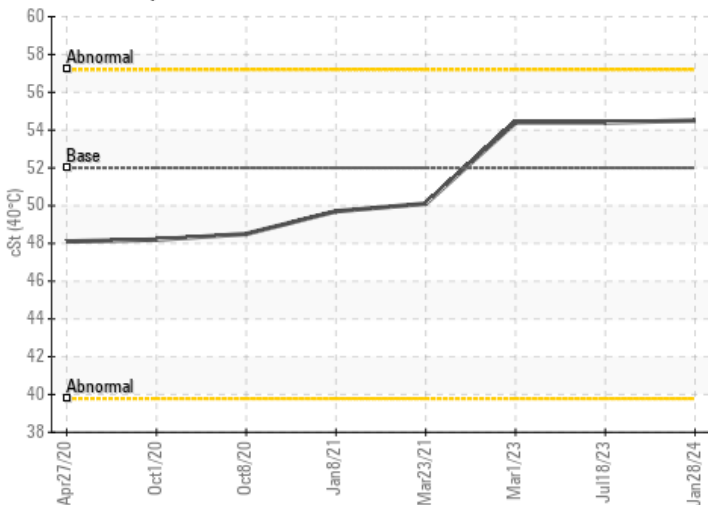
#### Ferrous Alloys



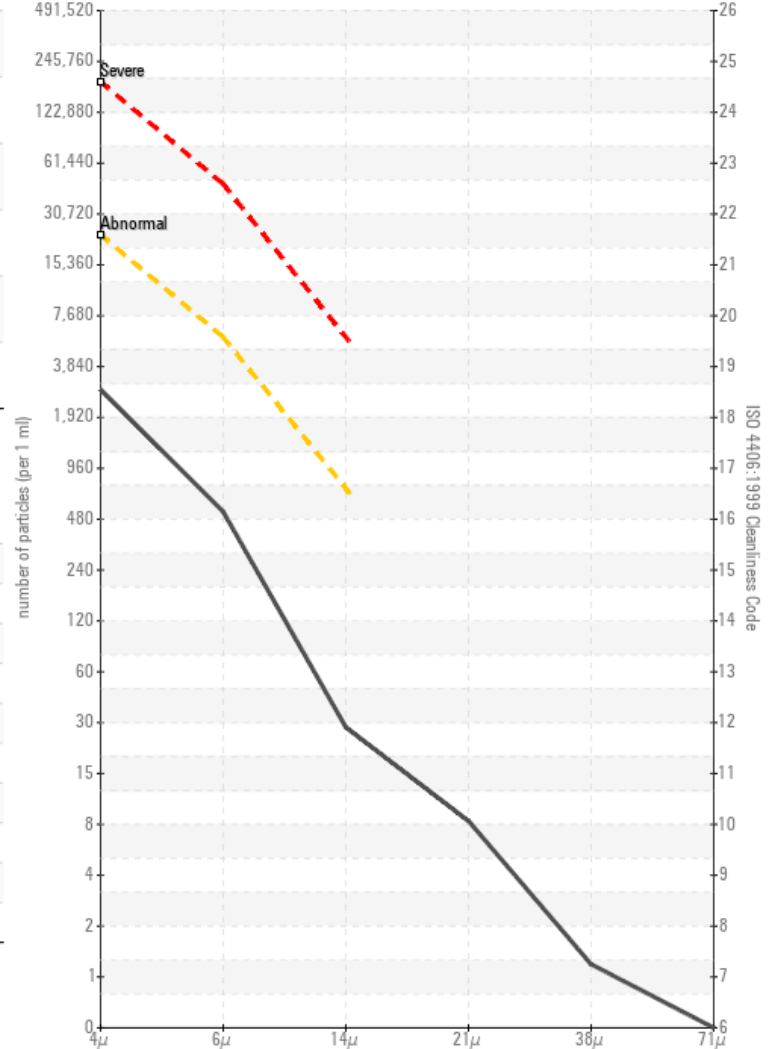
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

