

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR HS 8100.1 2209 (S/N 186057) - Hydraulic System

Sample No: LH0272226

Oil Type: LIEBHERR HYDRAULIC 37



#### SAMPLE INFORMATION

Sample Number	LH0272226	---	---	---
Sample Date	11 Jan 2024	---	---	---
Machine Hours	569	---	---	---
Oil Hours	569	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

#### DENSIFICATION INC

40650 HURLEY LN  
 PAEONIAN SPRINGS, VA  
 US 20129  
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 rob@densification.com  
 T: (703)623-1407  
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#### OIL CONDITION

Visc @ 40°C	cSt	37.0	---	---	---
Acid Number (AN)	mg KOH/g	0.60	---	---	---



#### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		3051	---	---	---
Particles >6µm		559	---	---	---
Particles >14µm		28	---	---	---
ISO 4406:1999 (c)		19/16/12	---	---	---
Silicon	ppm	2	---	---	---
Sodium	ppm	0	---	---	---
Potassium	ppm	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	1	---	---	---
Copper	ppm	11	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

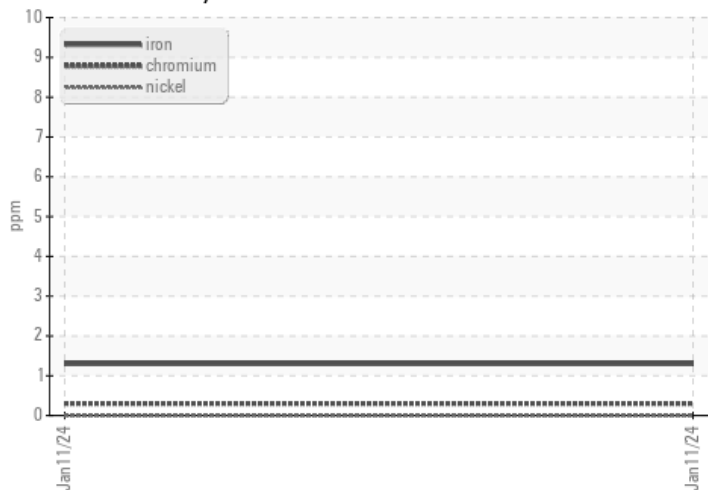
Calcium	ppm	627	---	---	---
Magnesium	ppm	<1	---	---	---
Zinc	ppm	581	---	---	---
Phosphorus	ppm	437	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	16	---	---	---

Depot: DENPAE  
 Unique No: 10833281  
 Signed: Wes Davis  
 Report Date: 17 Jan 2024

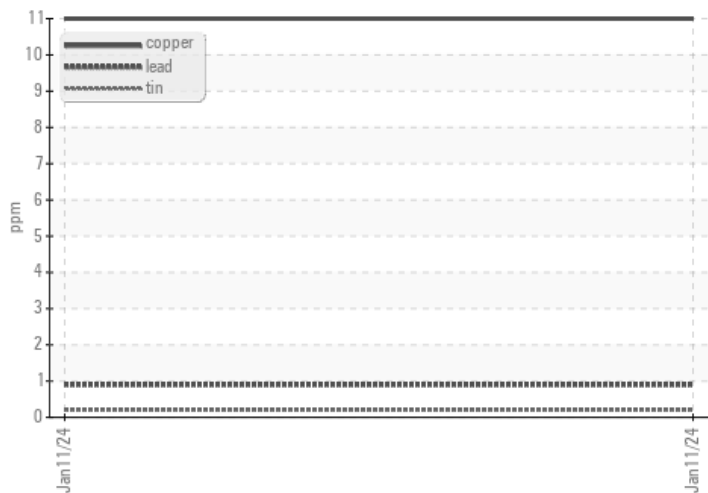


### GRAPHS

#### Ferrous Alloys



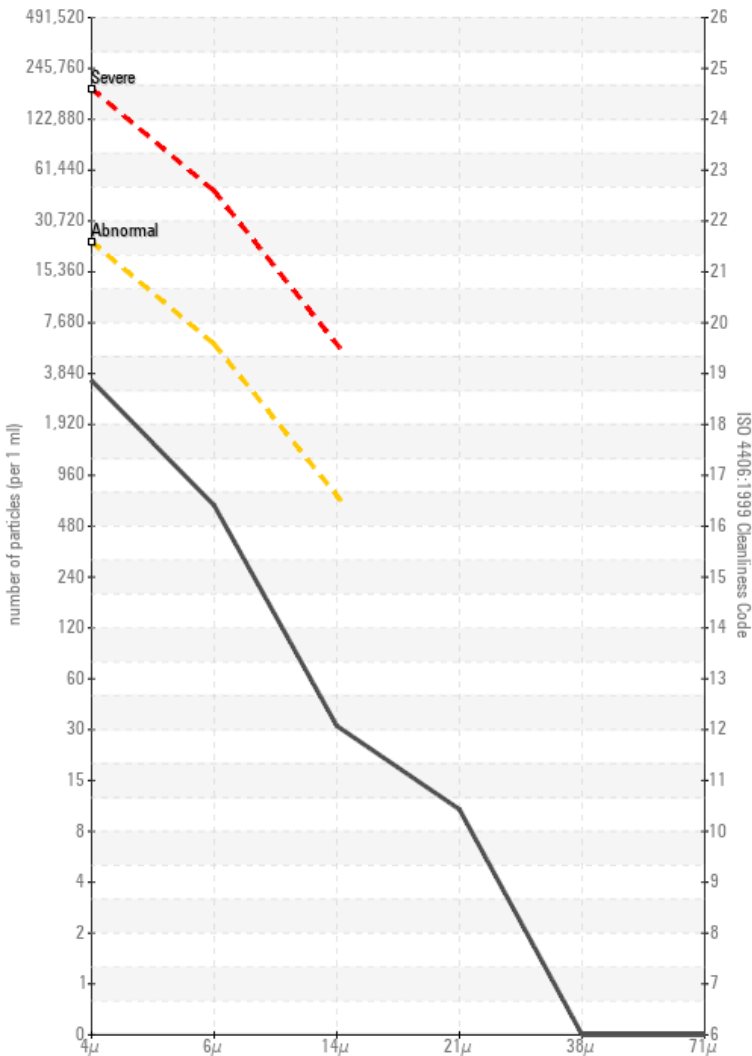
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

