

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 077007-1203 - Hydraulic System

Sample No: LH0272550

Oil Type: LIEBHERR HYDRAULIC HVI



**AMERICAN STATE EQUIPMENT CO.**  
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 WAUSAU, WI  
 US 54401  
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#### SAMPLE INFORMATION

Sample Number	LH0272550	---	---	---
Sample Date	28 Nov 2023	---	---	---
Machine Hours	20037	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	43.1	---	---	---
Acid Number (AN)	mg KOH/g	0.75	---	---	---



#### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		2429	---	---	---
Particles >6µm		995	---	---	---
Particles >14µm		144	---	---	---
ISO 4406:1999 (c)		18/17/14	---	---	---
Silicon	ppm	5	---	---	---
Sodium	ppm	<1	---	---	---
Potassium	ppm	0	---	---	---



#### WEAR METALS

Iron	ppm	4	---	---	---
Copper	ppm	0	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	0	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	1303	---	---	---
Magnesium	ppm	10	---	---	---
Zinc	ppm	776	---	---	---
Phosphorus	ppm	637	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	36	---	---	---

#### Diagnosis

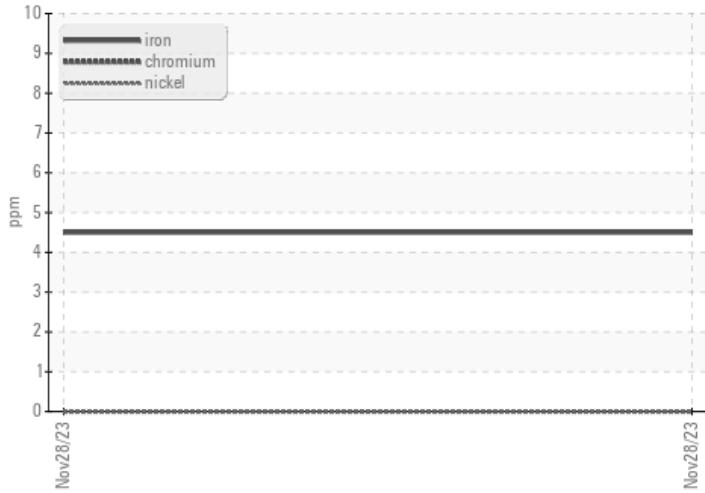
Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for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

Depot: LEC0008  
 Unique No: 10781169  
 Signed: Don Baldrige  
 Report Date: 14 Dec 2023

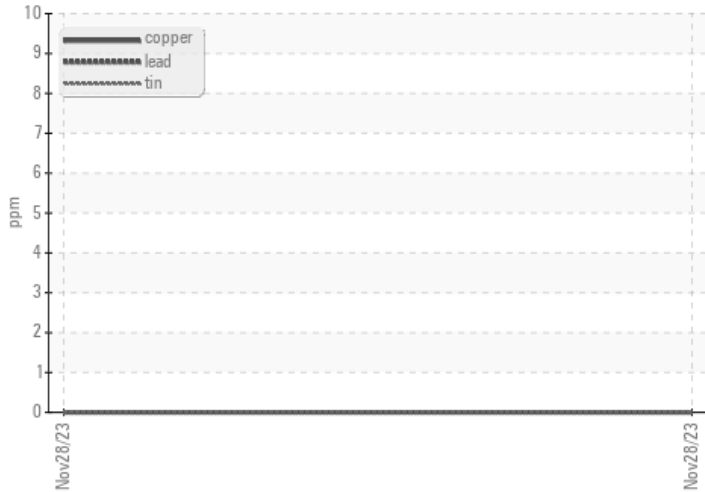


### GRAPHS

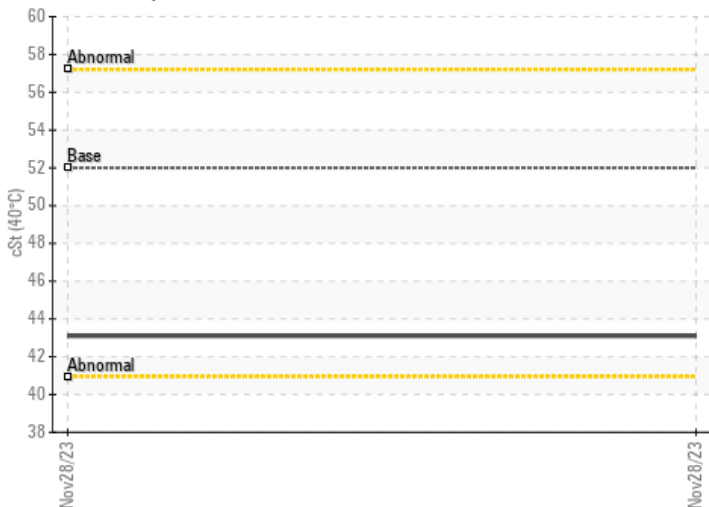
#### Ferrous Alloys



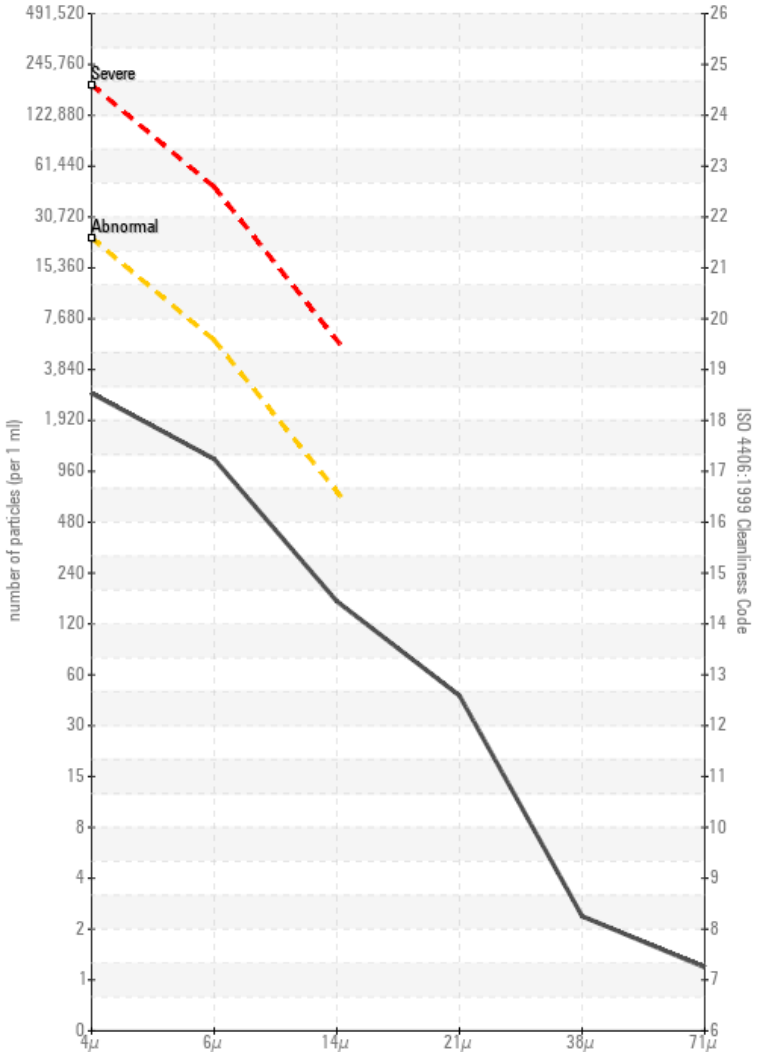
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

