

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R945 57224 - Hydraulic System

Sample No: LH0268319

Oil Type: LIEBHERR HYDRAULIC HVI



**M&F CONCRETE PRODUCTS CO**  
 4002 CATLETT RD  
 CATLETT, VA  
 US 20119  
 Contact: Service Manager



#### SAMPLE INFORMATION

Sample Number	LH0268319	---	---	---
Sample Date	03 Mar 2024	---	---	---
Machine Hours	522	---	---	---
Oil Hours	522	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	44.2	---	---	---
Acid Number (AN)	mg KOH/g	1.31	---	---	---

T:  
F:



#### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		19086	---	---	---
Particles >6µm		2408	---	---	---
Particles >14µm		79	---	---	---
ISO 4406:1999 (c)		21/18/13	---	---	---
Silicon	ppm	4	---	---	---
Sodium	ppm	3	---	---	---
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	4	---	---	---
Copper	ppm	4	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

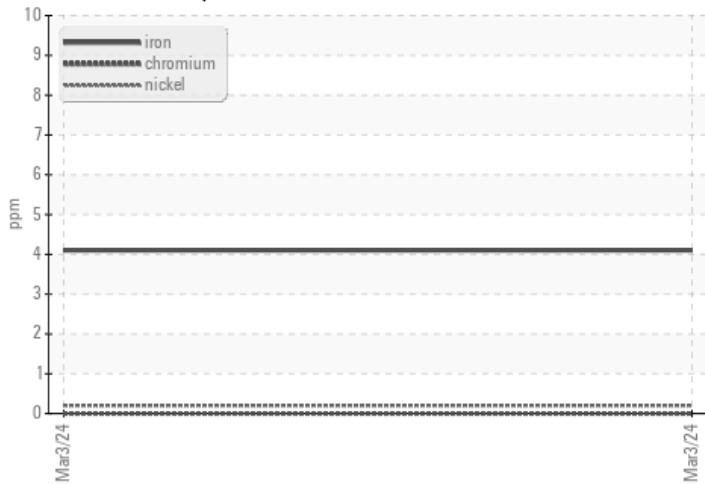
Calcium	ppm	1349	---	---	---
Magnesium	ppm	5	---	---	---
Zinc	ppm	713	---	---	---
Phosphorus	ppm	638	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: MECCAT  
 Unique No: 10941164  
 Signed: Wes Davis  
 Report Date: 26 Mar 2024

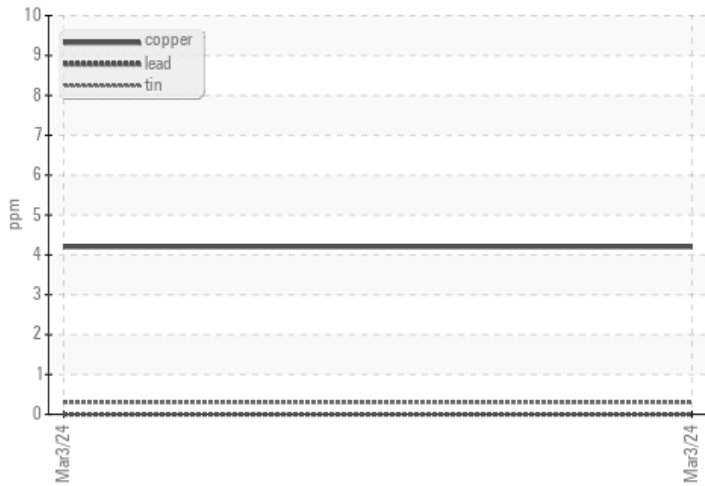


### GRAPHS

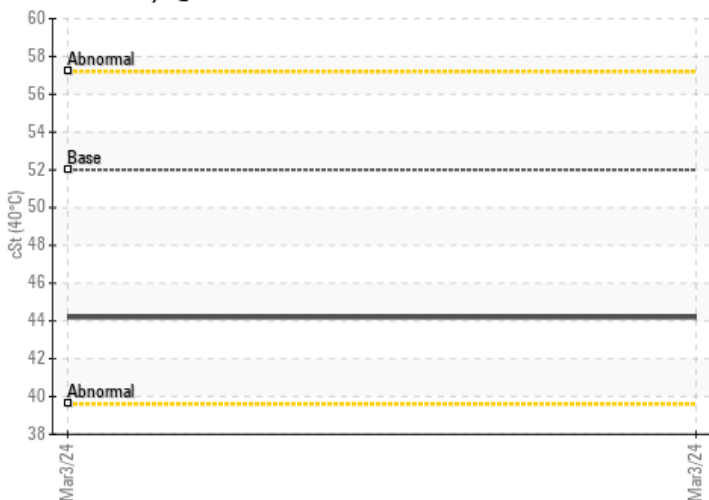
#### Ferrous Alloys



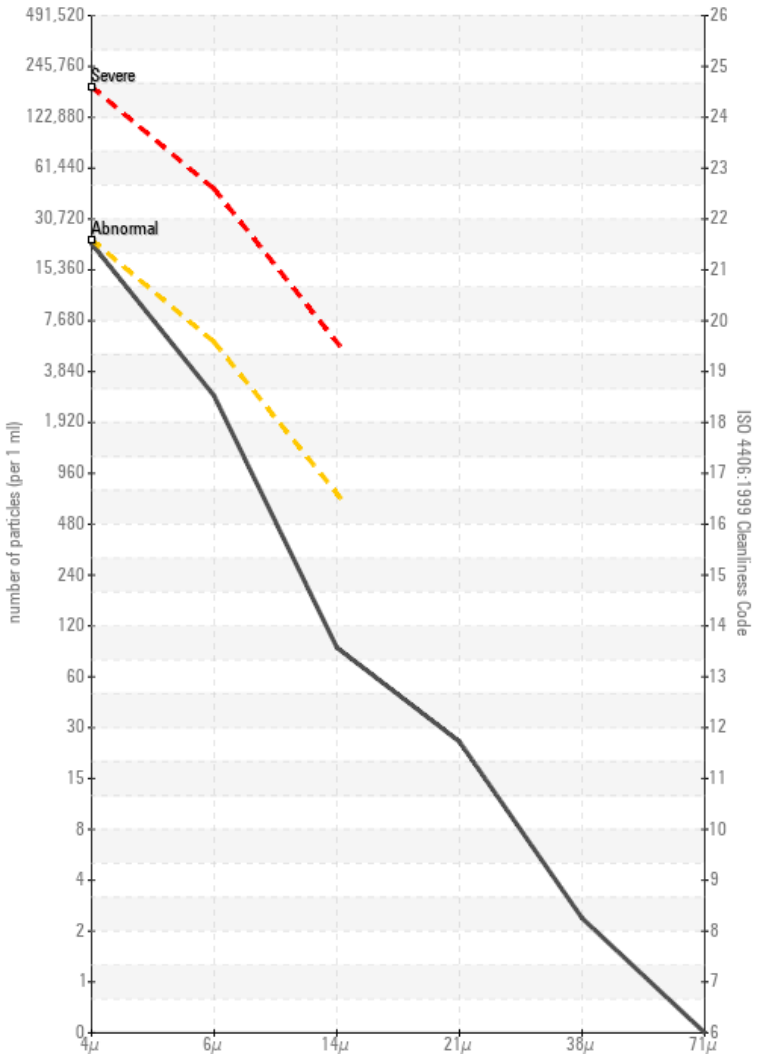
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

