

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R938 050886-1650 - Hydraulic System

Sample No: LH0258263

Oil Type: LIEBHERR HYDRAULIC HVI



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



#### SAMPLE INFORMATION

Sample Number	LH0258263	LH0258963	LH0243979	---
Sample Date	08 Oct 2023	09 Aug 2023	31 Jan 2023	---
Machine Hours	431	1993	575	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	ATTENTION	ABNORMAL	NORMAL	---



#### OIL CONDITION

Visc @ 40°C	cSt	42.5	41.7	44.2	---
Acid Number (AN)	mg KOH/g	1.824	1.17	---	---



#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		25326	46388	18439	---
Particles >6µm		7262	10916	2284	---
Particles >14µm		500	425	46	---
ISO 4406:1999 (c)		22/20/16	23/21/16	21/18/13	---
Silicon	ppm	6	8	4	---
Sodium	ppm	4	3	1	---
Potassium	ppm	1	2	1	---



#### WEAR METALS

Iron	ppm	7	16	9	---
Copper	ppm	7	7	4	---
Lead	ppm	0	1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	2	2	<1	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	1335	1859	1244	---
Magnesium	ppm	9	8	4	---
Zinc	ppm	705	993	663	---
Phosphorus	ppm	618	821	560	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	0	---

T:  
F:

#### Diagnosis

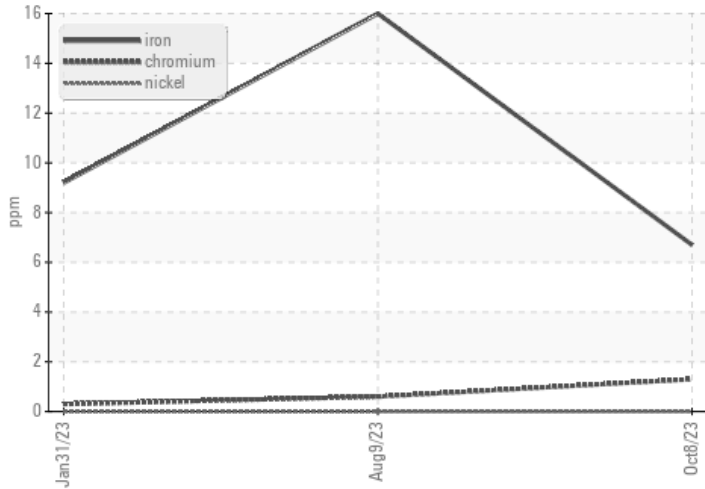
We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: MECCAT  
 Unique No: 10778419  
 Signed: Wes Davis  
 Report Date: 11 Dec 2023

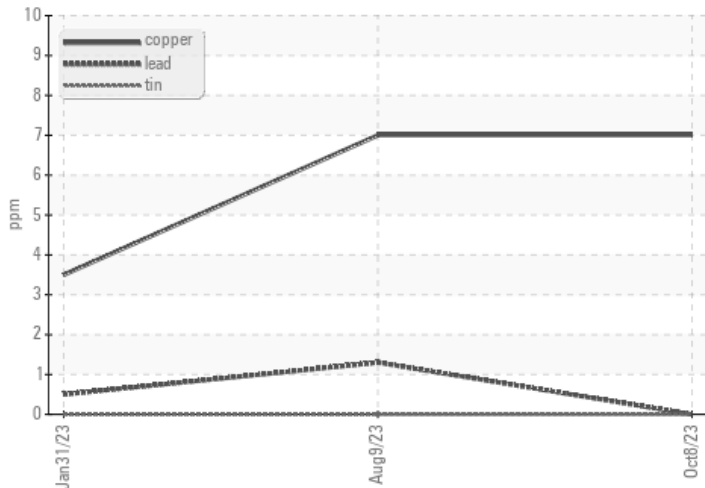


### GRAPHS

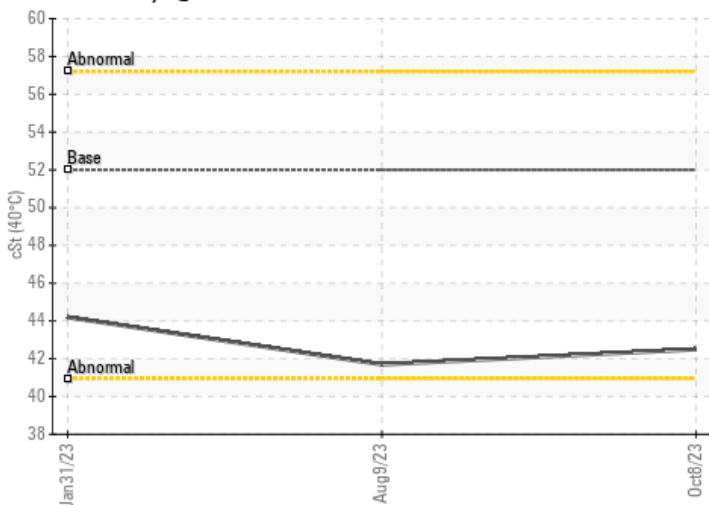
#### Ferrous Alloys



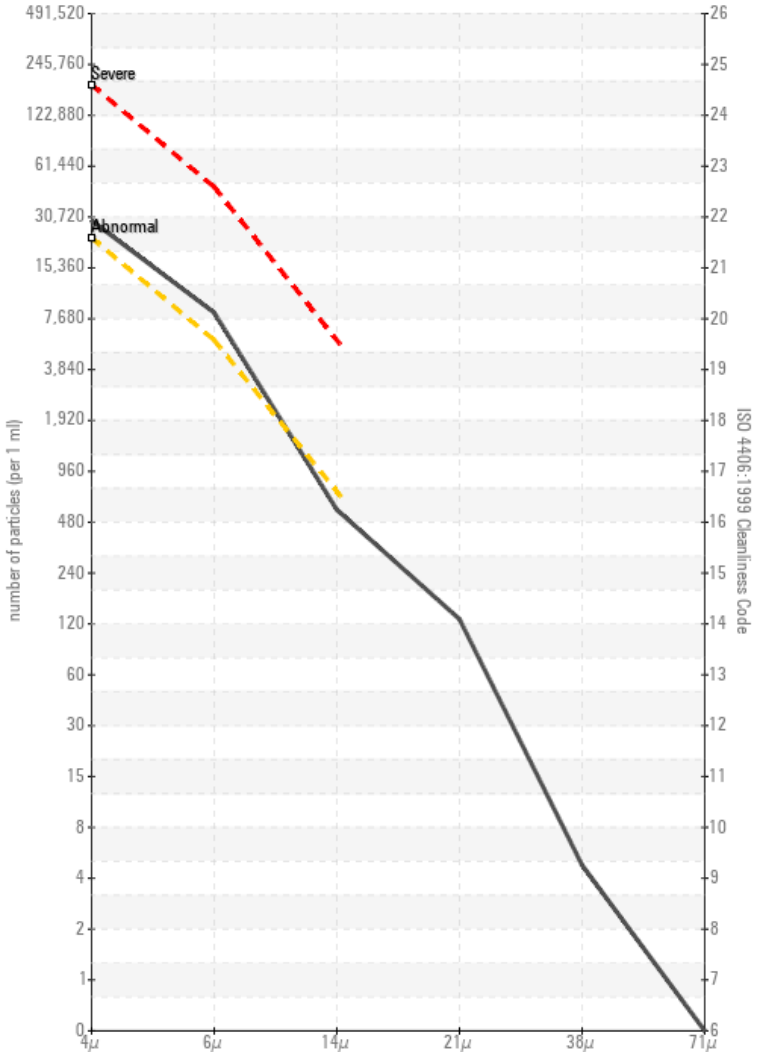
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

