

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 107069-1253 - Hydraulic System

Sample No: LH0229078

Oil Type: LIEBHERR HYDRAULIC HVI



#### SAMPLE INFORMATION

Sample Number	LH0229078	LH0258316	LHMC164133	LHMC164157
Sample Date	19 Jan 2024	15 Aug 2023	26 Dec 2019	24 Jul 2019
Machine Hours	9670	8925	2207	1453
Oil Hours	0	0	650	0
Oil Changed	Not Changd	Not Changd	N/A	N/A
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

#### MIDWEST IRON

461 HOMESTEAD AVE  
DAYTON, OH  
US 45417  
Contact: SAVANNAH FITE  
sfite@mwmetals.com  
T: (937)222-5992  
F:



#### OIL CONDITION

Visc @ 40°C	cSt	42.0	41.9	43.2	43.9
Acid Number (AN)	mg KOH/g	0.77	0.89	0.973	1.057



#### CONTAMINATION

Water	%	NEG	NEG	NEG	0.142
Particles >4µm		2629	---	56227	---
Particles >6µm		794	---	14329	---
Particles >14µm		77	---	590	---
ISO 4406:1999 (c)		19/17/13	---	23/21/16	---
Silicon	ppm	1	2	5	2
Sodium	ppm	4	6	2	3
Potassium	ppm	3	1	0	6

#### 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	23	33	19	17
Copper	ppm	7	8	4	4
Lead	ppm	2	2	1	2
Tin	ppm	<1	0	<1	0
Aluminum	ppm	1	<1	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

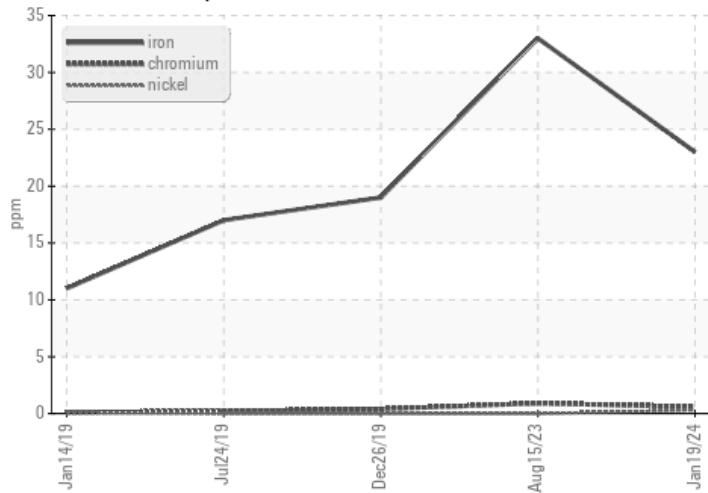
Calcium	ppm	999	1326	1317	1262
Magnesium	ppm	13	9	6	6
Zinc	ppm	595	681	655	642
Phosphorus	ppm	489	530	558	492
Barium	ppm	0	0	0	0
Boron	ppm	0	0	<1	<1

Depot: MIDDAY  
Unique No: 10863390  
Signed: Wes Davis  
Report Date: 07 Feb 2024

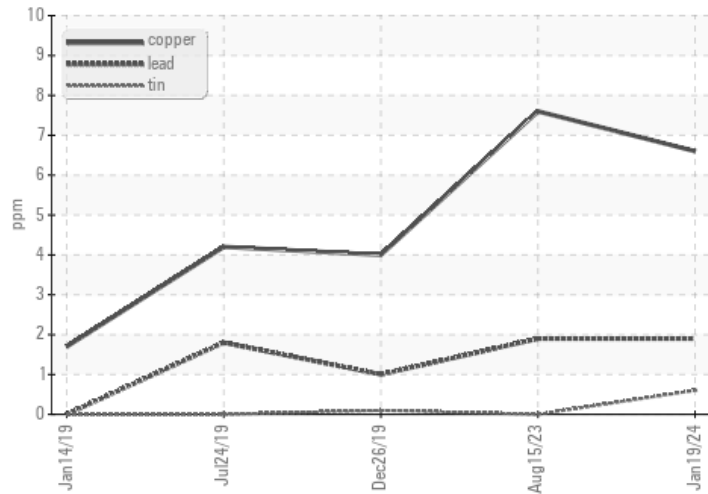


### GRAPHS

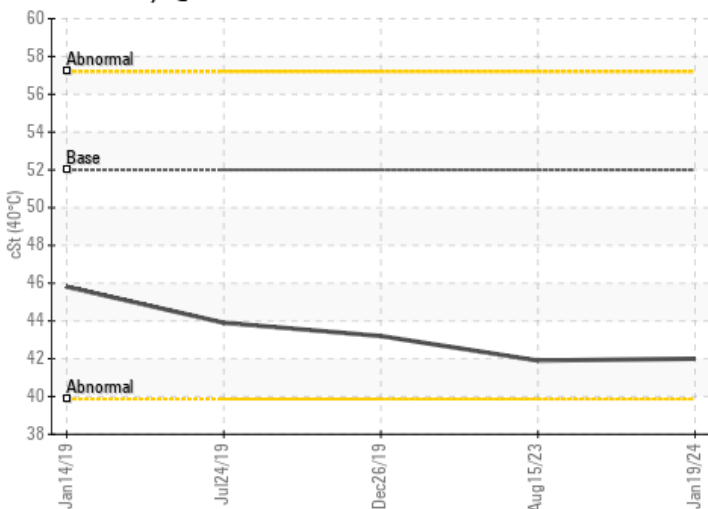
#### Ferrous Alloys



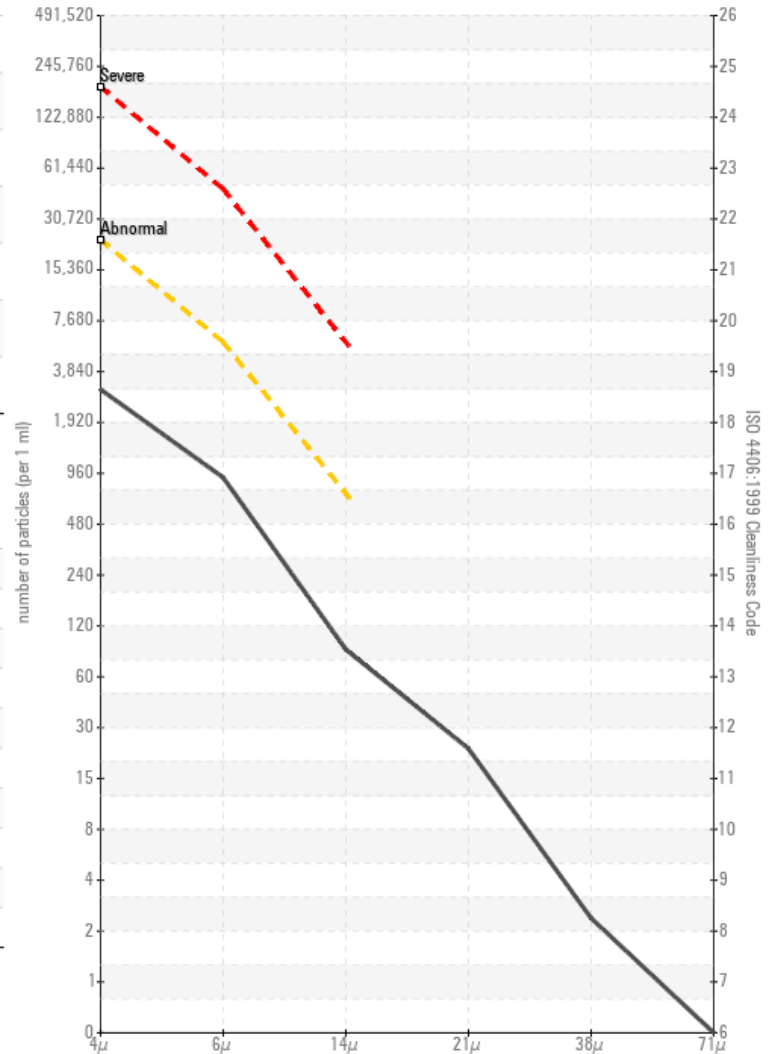
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

