

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 097298-1217 - Hydraulic System

Sample No: LH0200413

Oil Type: FLEETLINE AW 46



#### SAMPLE INFORMATION

Sample Number	LH0200413	LH0229234	WC0721171	LH0217414
Sample Date	07 Jul 2023	02 May 2023	23 Oct 2022	06 Aug 2022
Machine Hours	12758	7110	5797	5211
Oil Hours	40	1000	1000	2106
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

#### MID CITY SCRAP

548 STATE RD  
WESTPORT, MA  
US 02790

Contact: TIM WILLIAMS  
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#### OIL CONDITION

Visc @ 40°C	cSt	43.2	42.5	43.2	43.0
Acid Number (AN)	mg KOH/g	0.43	0.53	0.62	0.57



#### CONTAMINATION

Particles >4µm		3201	---	13568	845
Particles >6µm		1025	---	2783	133
Particles >14µm		141	---	160	7
ISO 4406:1999 (c)		19/17/14	---	21/19/14	17/14/10
Silicon	ppm	<1	4	2	1
Sodium	ppm	0	<1	2	0
Potassium	ppm	<1	1	<1	0



#### WEAR METALS

Iron	ppm	3	10	9	7
Copper	ppm	1	2	3	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	<1	1
Aluminum	ppm	0	0	<1	2
Chromium	ppm	<1	1	1	<1
Molybdenum	ppm	<1	<1	1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	2
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	156	187	339	323
Magnesium	ppm	5	7	11	9
Zinc	ppm	491	494	526	498
Phosphorus	ppm	370	361	415	400
Barium	ppm	2	0	0	0
Boron	ppm	0	0	2	3

#### Diagnosis

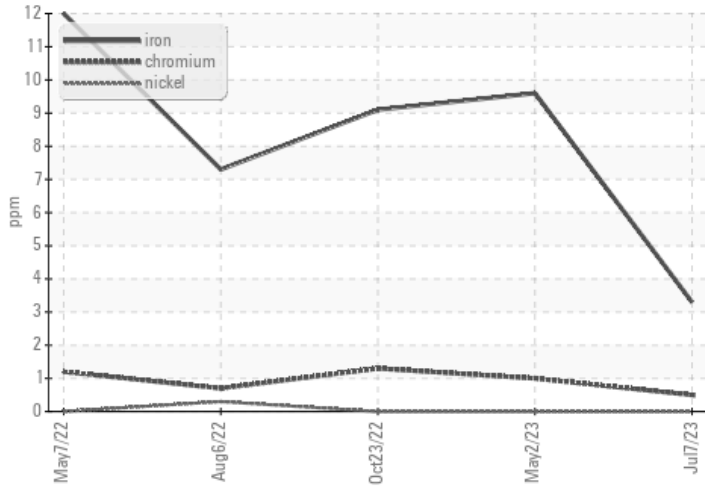
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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

Depot: MIDWESLH  
Unique No: 10566241  
Signed: Don Baldrige  
Report Date: 25 Jul 2023

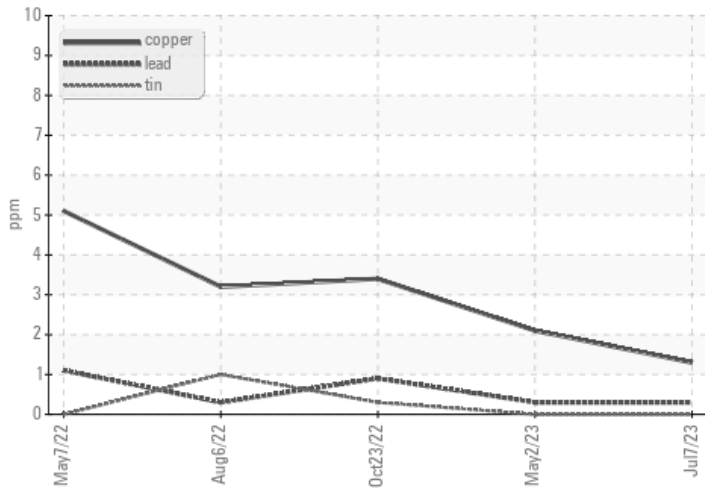


### GRAPHS

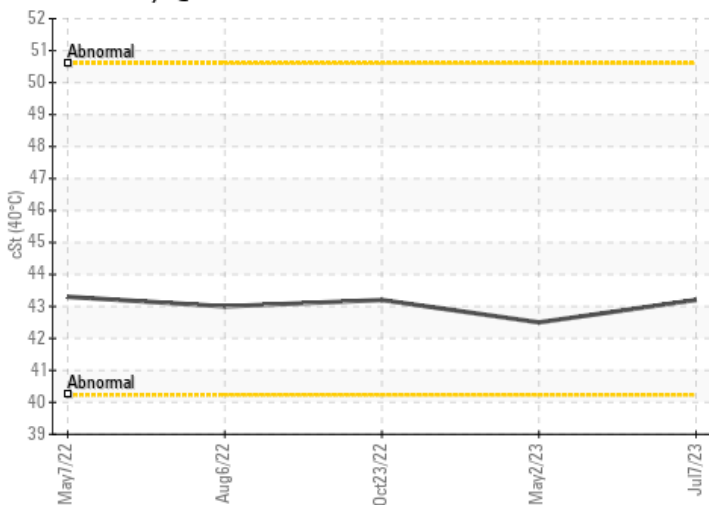
Ferrous Alloys



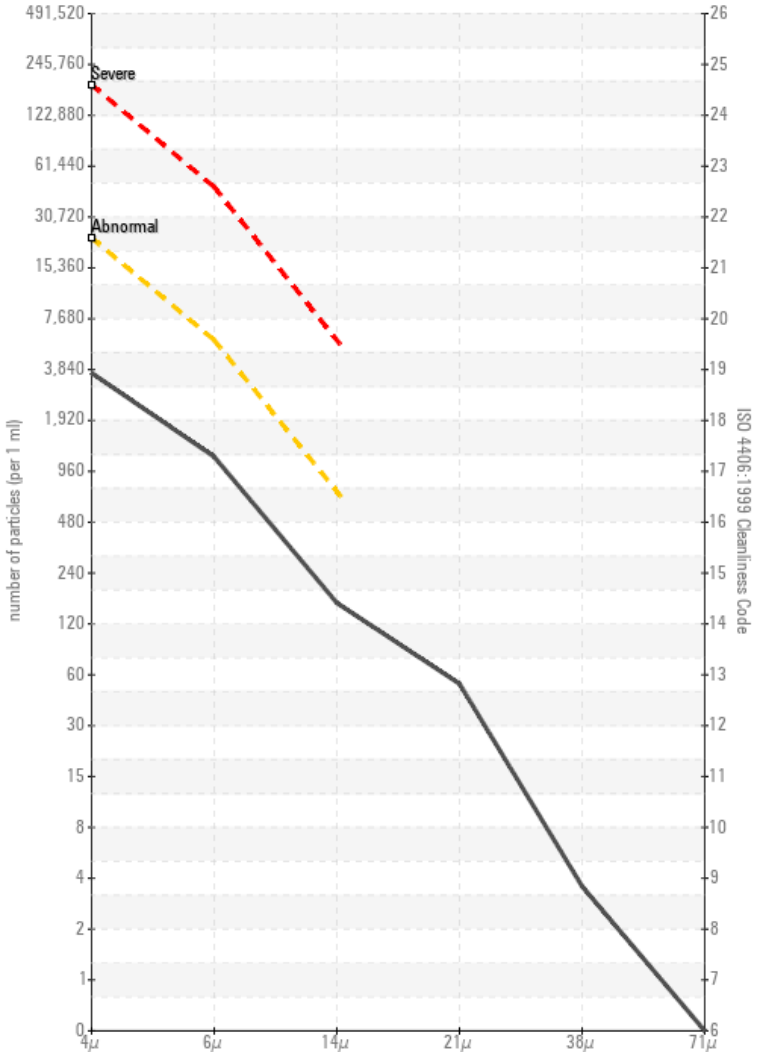
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

