

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[AMG RESOURCES]] LIEBHERR LH40M 124711-1215 - Hydraulic

Sample No: LHMC155857

Oil Type: LIEBHERR HYDRAULIC HVI



#### SAMPLE INFORMATION

Sample Number	LHMC155857	LH0253933	LH0253918	LH0236481
Sample Date	20 Dec 2023	26 Sep 2023	12 Jul 2023	21 Apr 2023
Machine Hours	4494	4000	3502	3125
Oil Hours	4494	0	0	3125
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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#### OIL CONDITION

Visc @ 40°C	cSt	41.4	42.2	41.8	41.8
Acid Number (AN)	mg KOH/g	0.99	1.12	1.16	0.14



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		574	13565	442	777
Particles >6µm		112	3674	131	226
Particles >14µm		11	266	16	17
ISO 4406:1999 (c)		16/14/11	21/19/15	16/14/11	17/15/11
Silicon	ppm	2	<1	<1	3
Sodium	ppm	0	2	3	4
Potassium	ppm	2	0	0	4

#### 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.



#### WEAR METALS

Iron	ppm	35	22	16	23
Copper	ppm	5	2	3	4
Lead	ppm	1	<1	0	2
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	0	<1	1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

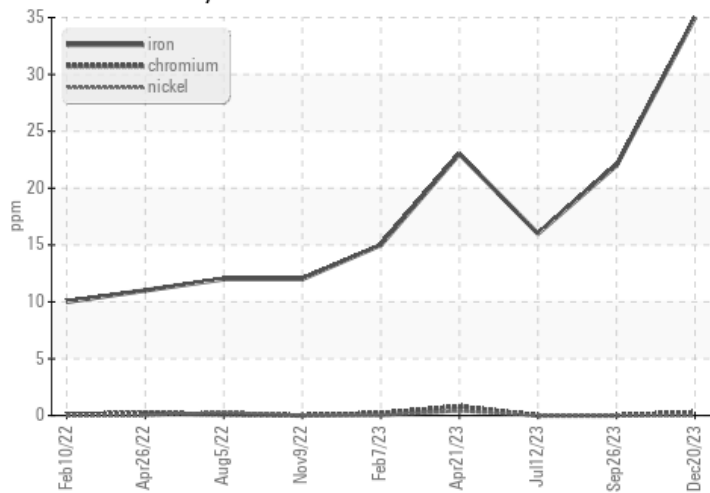
Calcium	ppm	1734	1350	1461	1442
Magnesium	ppm	5	10	5	7
Zinc	ppm	871	697	742	735
Phosphorus	ppm	658	607	625	610
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: LEC0008  
 Unique No: 10833280  
 Signed: Jonathan Hester  
 Report Date: 18 Jan 2024

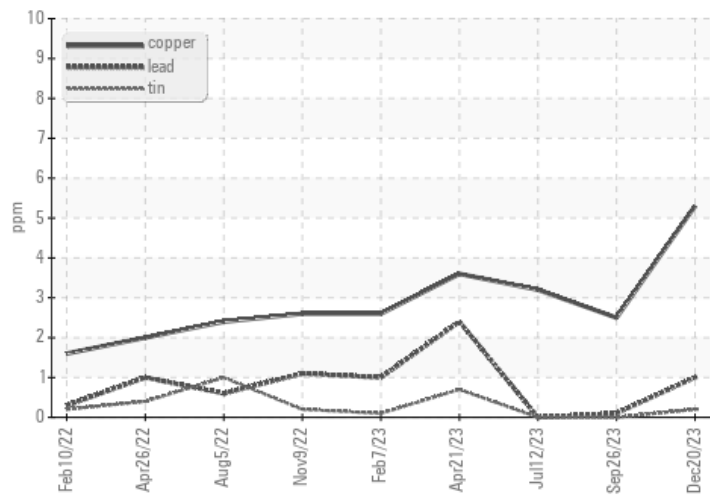


### GRAPHS

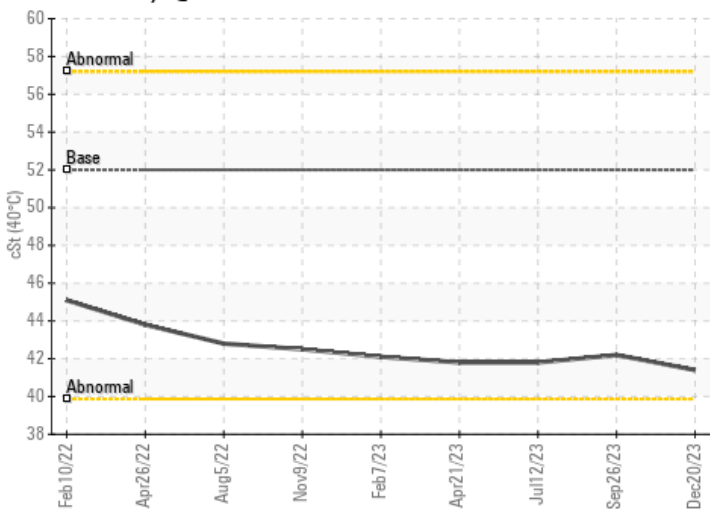
#### Ferrous Alloys



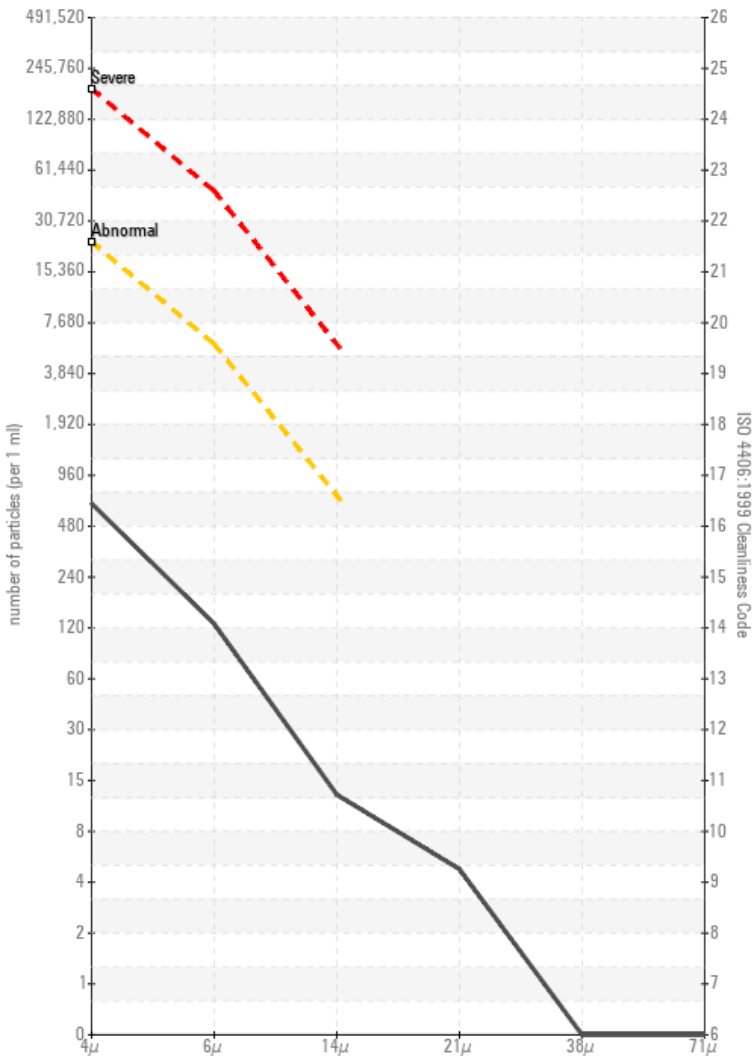
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

