

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-139058 - Hydraulic System

Sample No: LHMC50273

Oil Type: MOBIL DTE 10 EXCEL 46



#### SAMPLE INFORMATION

Sample Number	LHMC50273	LHMC82154	LHMC85450	LHMC85067
Sample Date	19 Jan 2024	30 Nov 2023	11 Oct 2023	17 Aug 2023
Machine Hours	5606	5101	4598	4098
Oil Hours	2000	1000	500	2000
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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#### OIL CONDITION

Visc @ 40°C	cSt	44.3	44.1	44.7	44.9
Acid Number (AN)	mg KOH/g	0.11	0.29	0.394	0.22



#### CONTAMINATION

Water	%	NEG	0.147	0.167	NEG
Particles >4µm		16462	1149	---	1329
Particles >6µm		4001	626	---	339
Particles >14µm		147	106	---	25
ISO 4406:1999 (c)		21/19/14	17/16/14	---	18/16/12
Silicon	ppm	1	<1	1	1
Sodium	ppm	<1	0	0	0
Potassium	ppm	3	0	1	2



#### WEAR METALS

Iron	ppm	9	5	5	7
Copper	ppm	2	<1	<1	2
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	1
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	<1	0	0	<1



#### ADDITIVES

Calcium	ppm	293	312	361	429
Magnesium	ppm	3	4	4	2
Zinc	ppm	118	131	176	197
Phosphorus	ppm	206	216	257	252
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

#### Diagnosis

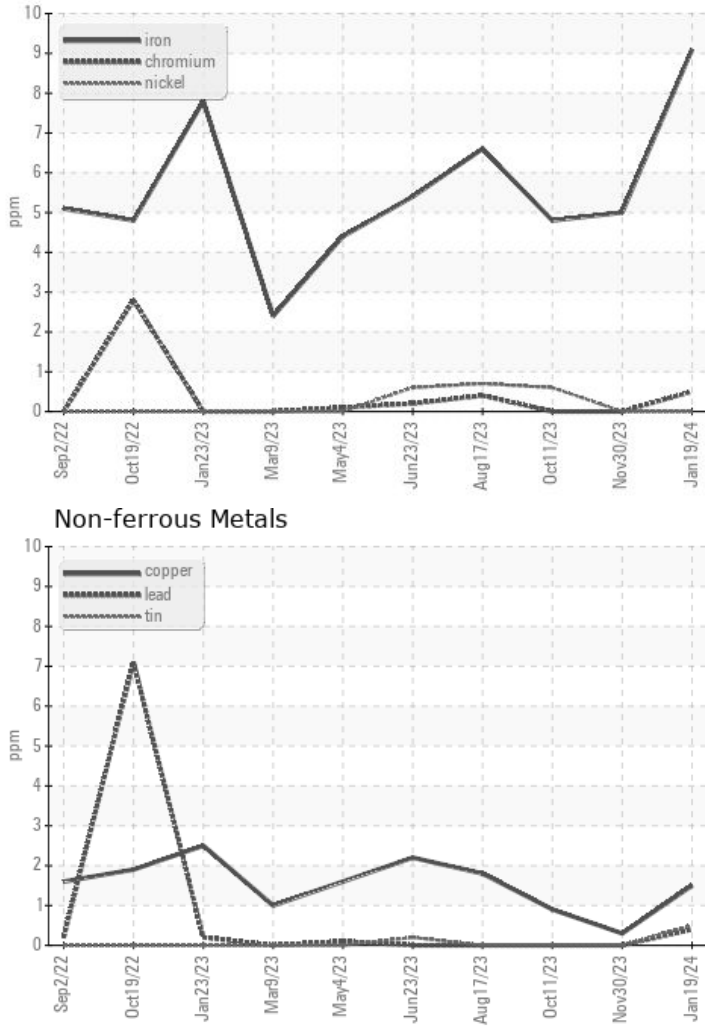
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: PACTOM  
 Unique No: 10858447  
 Signed: Wes Davis  
 Report Date: 01 Feb 2024

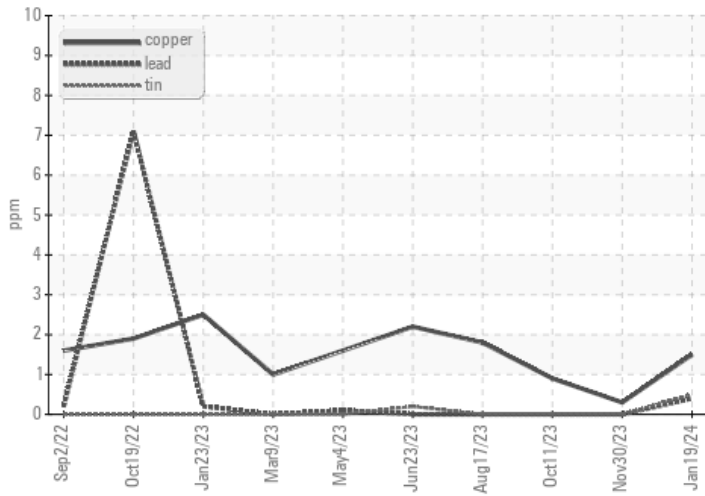


### GRAPHS

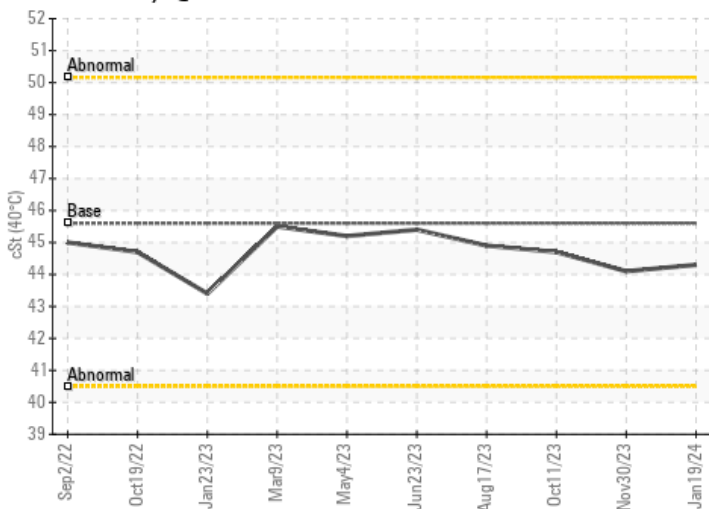
#### Ferrous Alloys



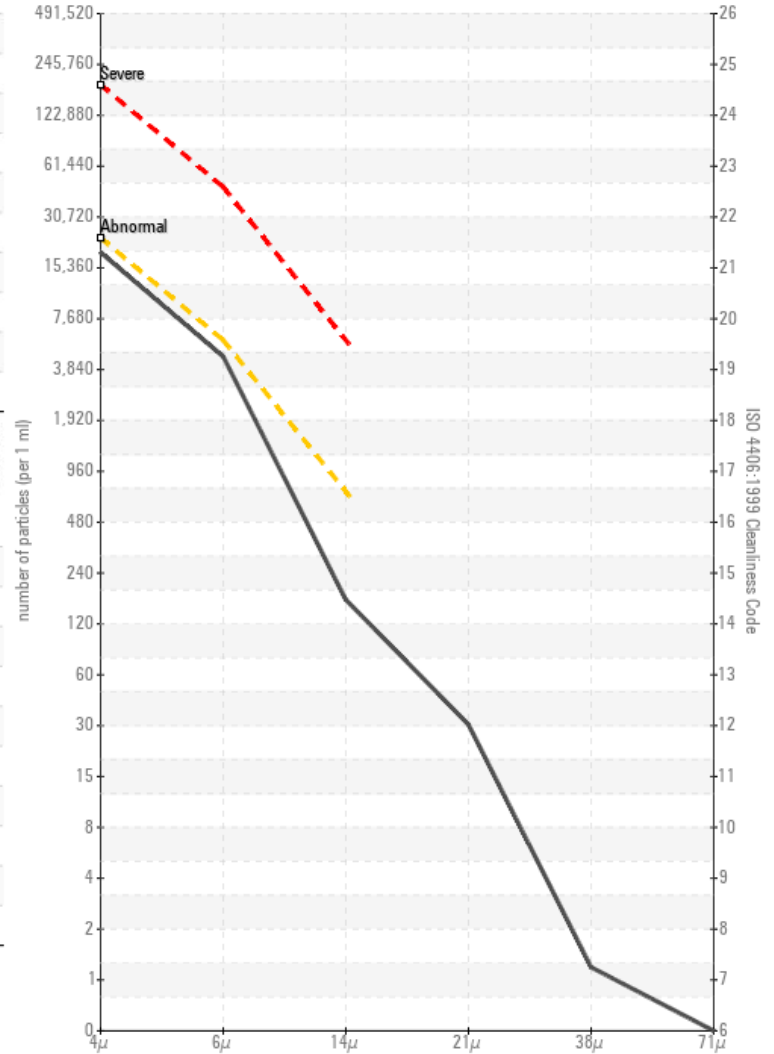
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

