

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 121854-1253 - Hydraulic System

Sample No: LH0290241

Oil Type: LIEBHERR HYDRAULIC HVI



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Sample Information

Sample Number	LH0290241	LH0258819	LH0272750	LH0272579
Sample Date	17 May 2024	15 Mar 2024	02 Jan 2024	27 Oct 2023
Machine Hours	8113	7579	6976	6481
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	39.9	44.7	45.5	45.8
Acid Number (AN)	mg KOH/g	0.91	0.87	0.78	0.74



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2684	856	519	1087
Particles >6µm		92	161	98	252
Particles >14µm		4	15	13	17
ISO 4406:1999 (c)		19/14/9	17/15/11	16/14/11	17/15/11
Silicon	ppm	<1	<1	0	<1
Sodium	ppm	1	1	0	1
Potassium	ppm	<1	2	1	0



Wear Metals

Iron	ppm	25	25	19	16
Copper	ppm	1	1	2	1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	0	<1	2	0
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	211	304	376	538
Magnesium	ppm	6	4	2	0
Zinc	ppm	693	647	578	436
Phosphorus	ppm	586	545	450	375
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Diagnosis

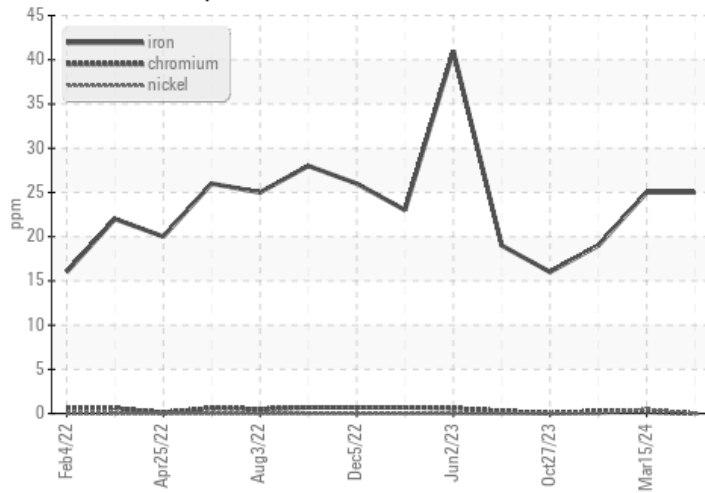
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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

Depot: LEC0008
 Unique No: 11047727
 Signed: Don Baldrige
 Report Date: 30 May 2024

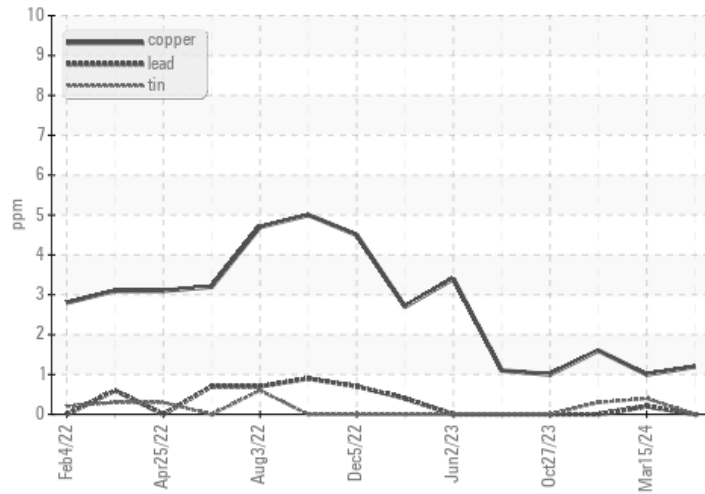


Graphs

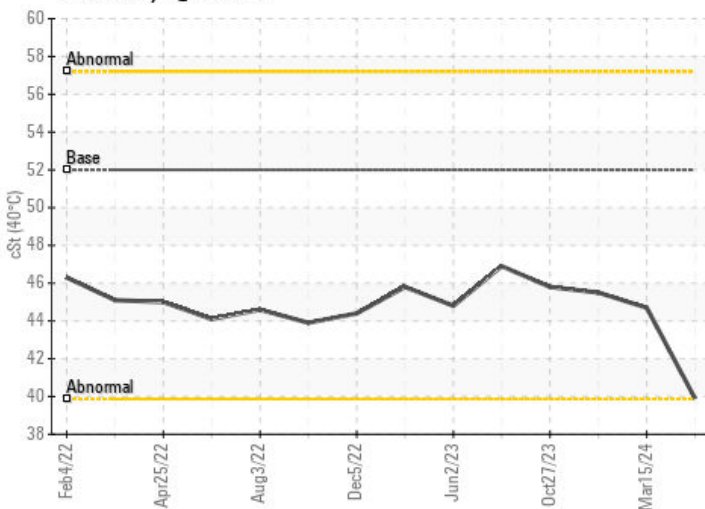
Ferrous Alloys



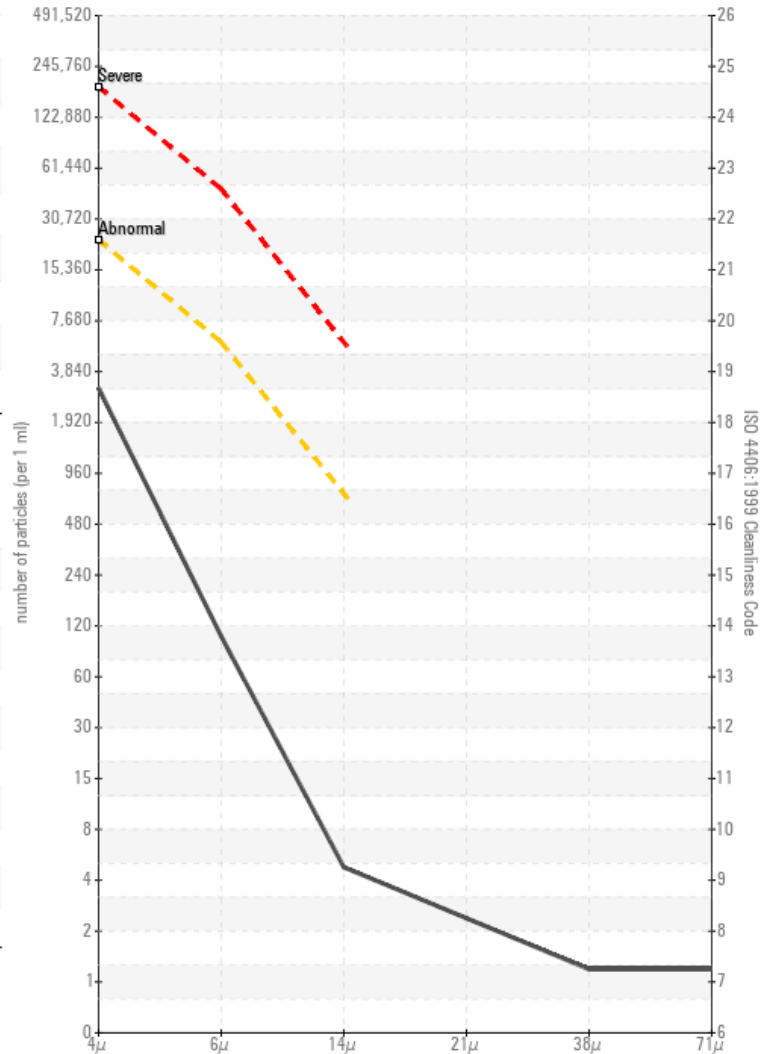
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

