

LIEBHERR

CONSTRUCTION EQUIPMENT



[[KIMMEL]] LIEBHERR LH50M 1216-117 615 - Hydraulic System

Sample No: LH06072749

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH06072749	LH0244104	WCMC165286	LHMC155588
Sample Date	28 Jan 2024	14 Apr 2023	21 Jun 2021	13 Apr 2021
Machine Hours	1216	6895	3193	2765
Oil Hours	0	1000	0	2765
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ATTENTION

RECO EQUIPMENT INC

10461 GRAND RIVER RD
BRIGHTON, MI
US 48116

Contact: MATT VISEL

MVISEL@RECOEQUIP.COM

T: (810)299-1731

F:



OIL CONDITION

Visc @ 40°C	cSt	43.0	42.8	42.8	43.1
Acid Number (AN)	mg KOH/g	0.56	0.75	0.858	0.871



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5220	19645	85514	21677
Particles >6µm		629	1307	22377	4718
Particles >14µm		41	13	2032	317
ISO 4406:1999 (c)		20/16/13	21/18/11	24/22/18	22/19/15
Silicon	ppm	<1	2	1	<1
Sodium	ppm	0	2	1	1
Potassium	ppm	<1	0	<1	<1



WEAR METALS

Iron	ppm	26	33	32	20
Copper	ppm	1	3	3	2
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	0	0	<1
Chromium	ppm	2	3	1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	329	880	1081	1042
Magnesium	ppm	2	12	6	8
Zinc	ppm	470	502	684	649
Phosphorus	ppm	358	427	583	537
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	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: RECBRLH

Unique No: 10849426

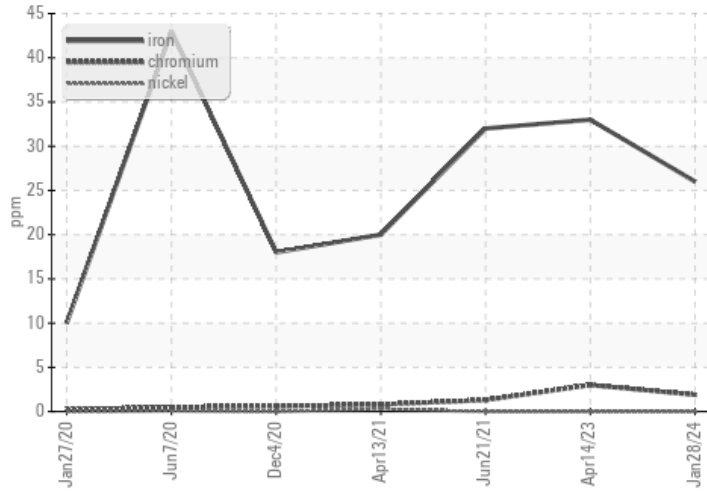
Signed: Don Baldrige

Report Date: 30 Jan 2024

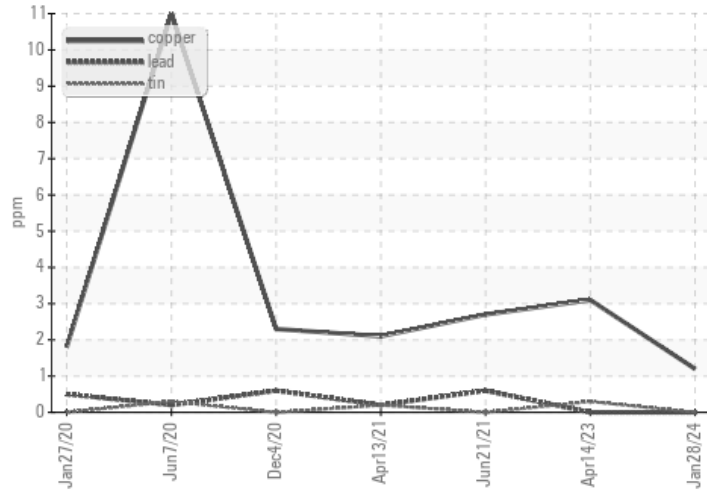


GRAPHS

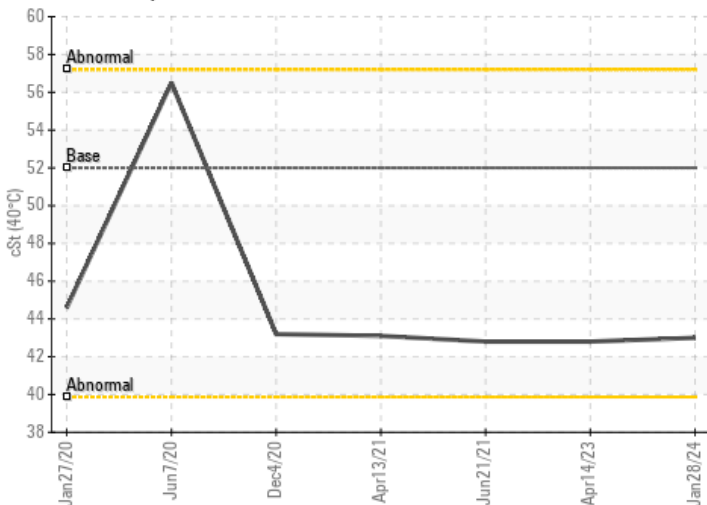
Ferrous Alloys



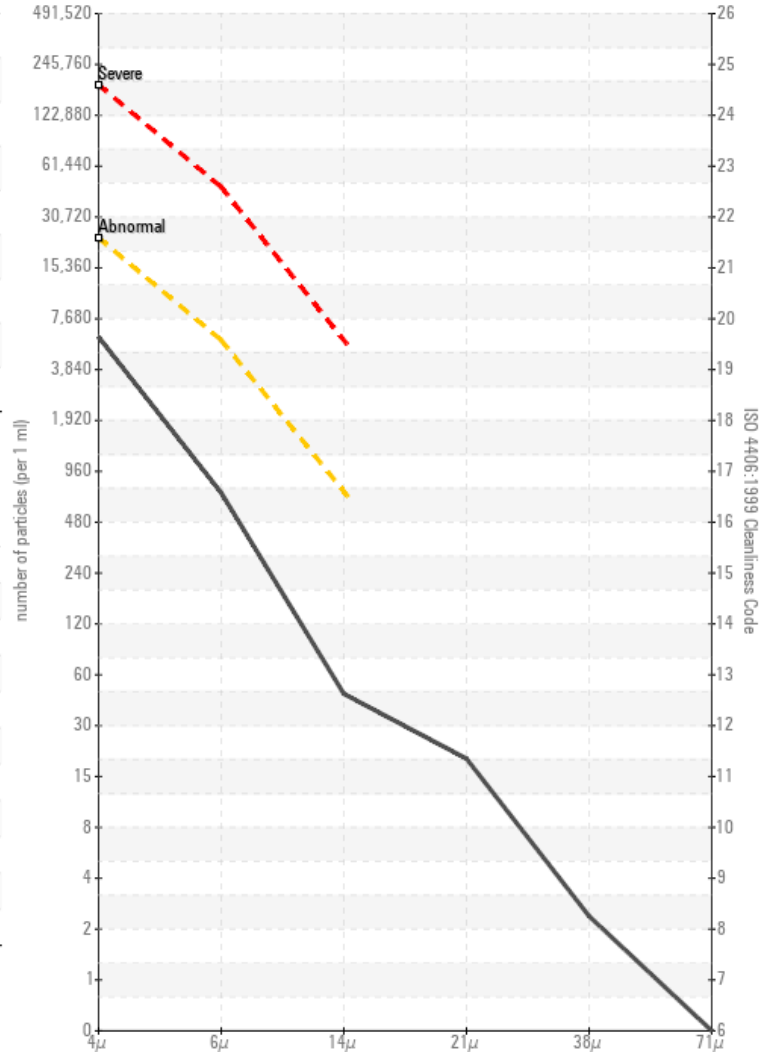
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

