

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 141098-1217 - Hydraulic System

Sample No: LH0284997

Oil Type: {unknown}



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SAMPLE INFORMATION

Sample Number	LH0284997	LH0277799	LH0261813	LH0251567
Sample Date	22 Feb 2024	04 Dec 2023	26 May 2023	24 Feb 2023
Machine Hours	2811	0	1399	934
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	42.1	42.3	43.0	43.6
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 3045	● 20366	● 10113	● 8418
Particles >6µm		● 1027	● 3885	● 2074	● 1644
Particles >14µm		● 92	● 80	● 63	● 64
ISO 4406:1999 (c)		19/17/14	22/19/13	21/18/13	20/18/13
Silicon	ppm	● 4	● 4	● 3	● 3
Sodium	ppm	● 3	● 3	● 2	● 1
Potassium	ppm	● 1	● 0	● 0	● <1



WEAR METALS

Iron	ppm	● 12	● 11	● 10	● 10
Copper	ppm	● 6	● 5	● 3	● 2
Lead	ppm	● <1	● 1	● <1	● <1
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● 1	● <1	● <1	● <1
Chromium	ppm	● 2	● <1	● <1	● <1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	● 0	● 0	● 0	● 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1245	1198	1325	1318
Magnesium	ppm	5	4	4	4
Zinc	ppm	692	697	697	696
Phosphorus	ppm	618	580	673	673
Barium	ppm	0	<1	0	0
Boron	ppm	<1	<1	<1	<1

Diagnosis

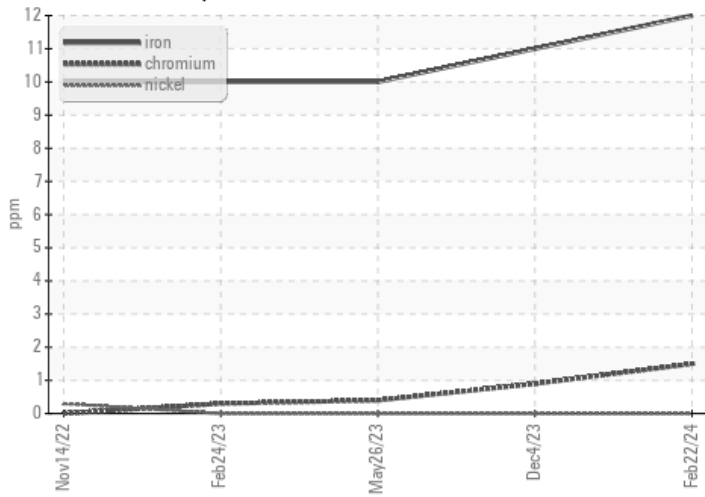
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: JOHLON
 Unique No: 5734799
 Signed: Wes Davis
 Report Date: 26 Feb 2024

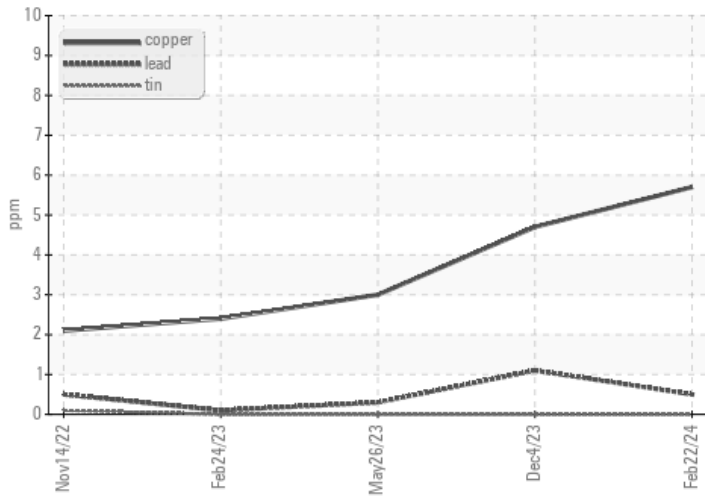


GRAPHS

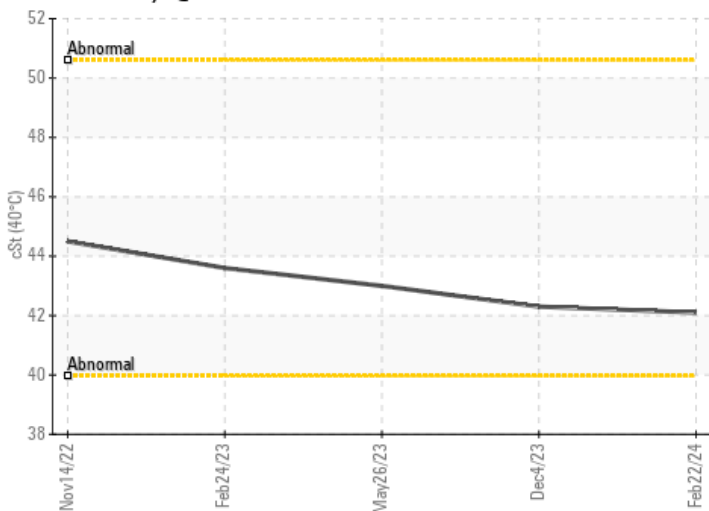
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

