

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 142548-1216 - Hydraulic System

Sample No: LH0272484

Oil Type: LIEBHERR HYDRAULIC HVI



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SAMPLE INFORMATION

Sample Number	LH0272484	LH0254816	LH0254797	LH0220791
Sample Date	30 Oct 2023	20 Jul 2023	14 Apr 2023	11 Jan 2023
Machine Hours	1993	1493	1008	473
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	42.4	42.7	43.6	45.2
Acid Number (AN)	mg KOH/g	1.26	1.43	1.50	1.52



CONTAMINATION

Particles >4µm		811	2867	1797	853
Particles >6µm		122	848	195	157
Particles >14µm		11	66	13	14
ISO 4406:1999 (c)		17/14/11	19/17/13	18/15/11	17/14/11
Silicon	ppm	4	2	3	3
Sodium	ppm	2	2	<1	<1
Potassium	ppm	0	0	0	0



WEAR METALS

Iron	ppm	15	12	9	8
Copper	ppm	2	2	<1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	13	15	11	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1783	1987	1668	1686
Magnesium	ppm	39	42	34	14
Zinc	ppm	818	908	833	776
Phosphorus	ppm	762	784	728	616
Barium	ppm	0	0	0	0
Boron	ppm	12	12	10	<1

Diagnosis

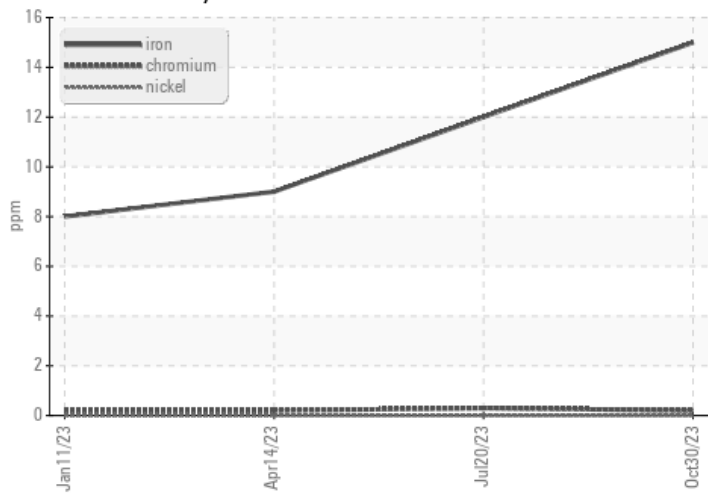
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further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

Depot: LEC0008
 Unique No: 10728148
 Signed: Wes Davis
 Report Date: 07 Nov 2023

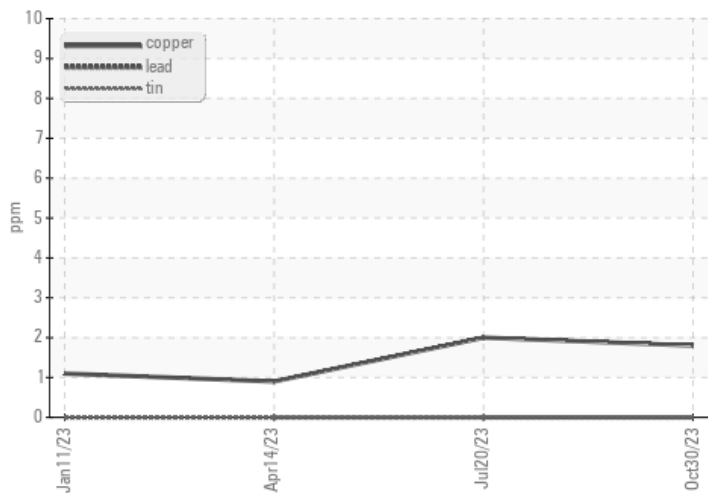


GRAPHS

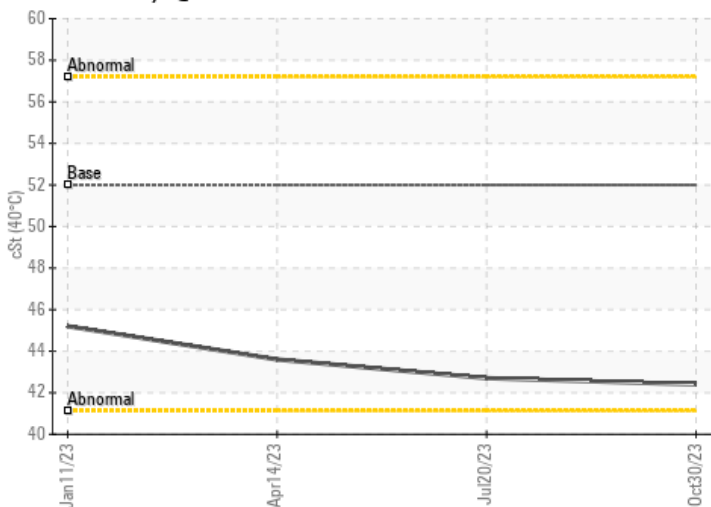
Ferrous Alloys



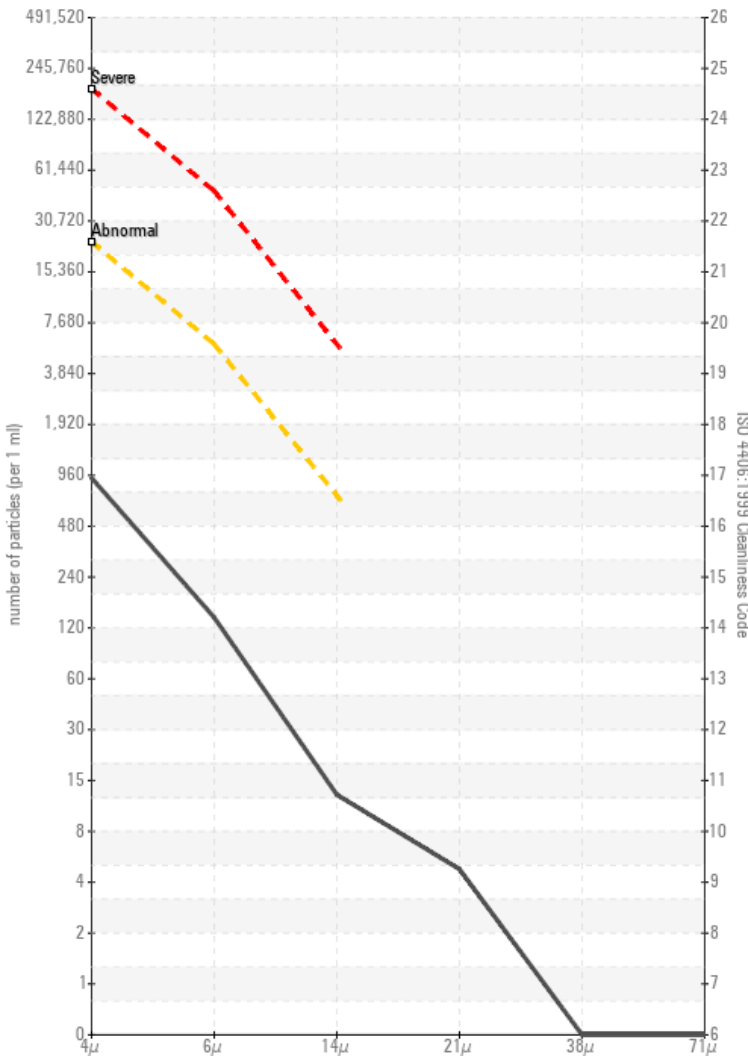
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

