

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-121548 - Hydraulic System

Sample No: LH0243396

Oil Type: LIEBHERR HYDRAULIC HVI



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SAMPLE INFORMATION

Sample Number	LH0243396	LH0263851	LH0200316	LH0236117
Sample Date	05 Oct 2023	18 Jul 2023	21 Apr 2023	20 Jan 2023
Machine Hours	2969	2422	1848	1172
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	42.5	42.7	43.2
Acid Number (AN)	mg KOH/g	0.79	0.89	0.87	1.058



CONTAMINATION

Particles >4µm		1445	977	2039	2189
Particles >6µm		279	261	555	614
Particles >14µm		16	20	28	35
ISO 4406:1999 (c)		18/15/11	17/15/11	18/16/12	18/16/12
Silicon	ppm	1	<1	1	<1
Sodium	ppm	1	2	0	0
Potassium	ppm	0	0	2	2



WEAR METALS

Iron	ppm	40	34	26	18
Copper	ppm	3	3	3	2
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	1	1	1	<1
Molybdenum	ppm	3	4	4	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	716	822	904	974
Magnesium	ppm	18	22	20	13
Zinc	ppm	571	616	637	591
Phosphorus	ppm	479	502	511	483
Barium	ppm	0	0	0	0
Boron	ppm	3	4	3	0

Diagnosis

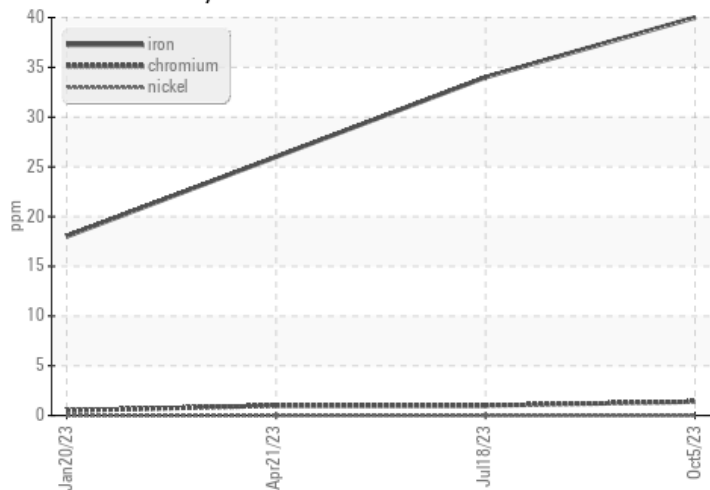
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further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

Depot: LEC0008
 Unique No: 10701462
 Signed: Wes Davis
 Report Date: 20 Oct 2023

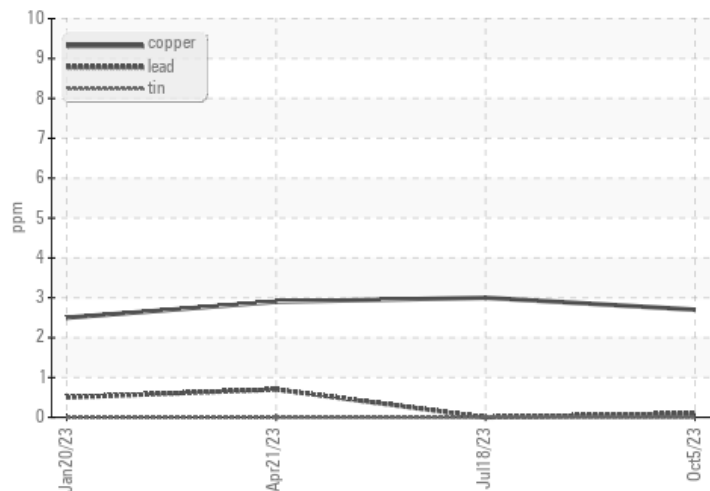


GRAPHS

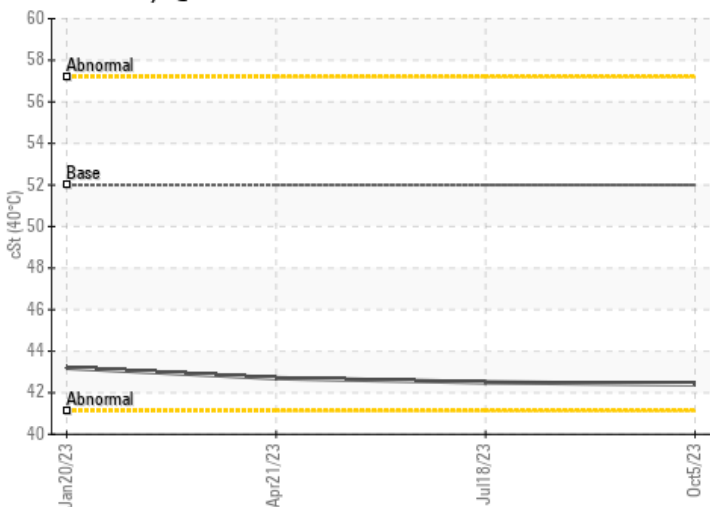
Ferrous Alloys



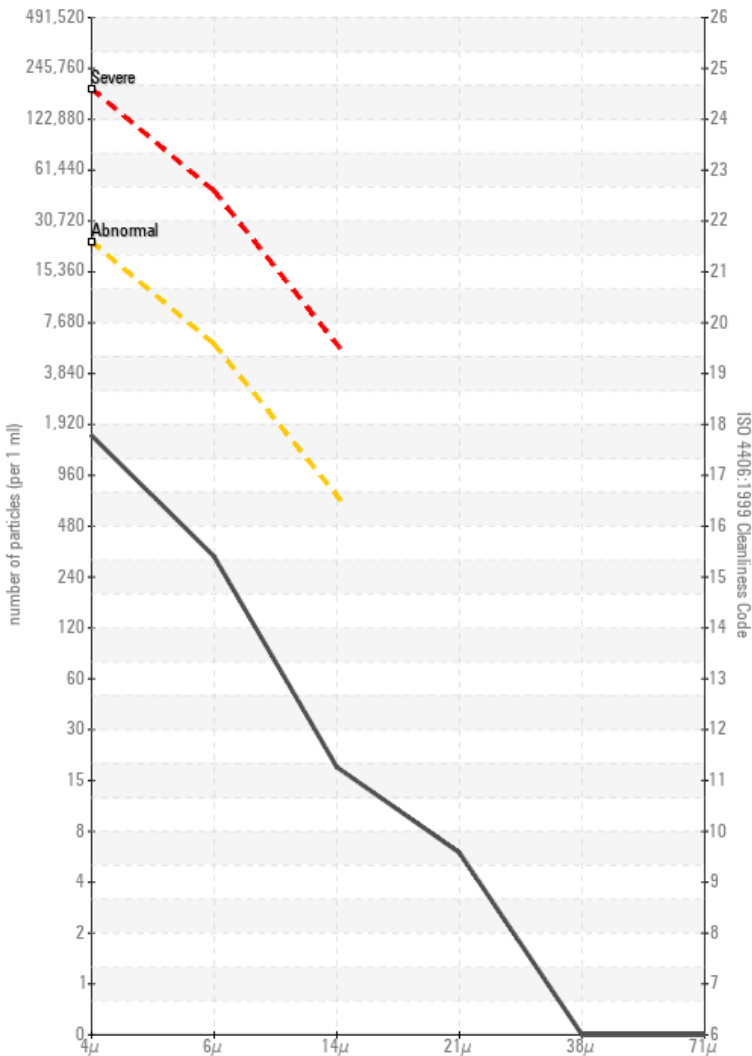
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

