

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 114410-1216 - Hydraulic System

Sample No: LH0268376

Oil Type: LIEBHERR HYDRAULIC HVI



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Sample Information

Sample Number	LH0268376	LH0244121	LH0190580	LHMC141479
Sample Date	11 Jun 2024	06 Jun 2023	05 Jul 2022	23 Mar 2022
Machine Hours	6530	4573	2990	2490
Oil Hours	0	0	2990	2490
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL



Oil Condition

Visc @ 40°C	cSt	41.7	42.0	42.3	43.1
Acid Number (AN)	mg KOH/g	0.92	1.08	1.08	1.09



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2483	5671	31221	9856
Particles >6µm		596	1325	5952	1469
Particles >14µm		22	65	239	65
ISO 4406:1999 (c)		18/16/12	20/18/13	22/20/15	20/18/13
Silicon	ppm	3	1	2	2
Sodium	ppm	<1	2	<1	2
Potassium	ppm	2	<1	2	0



Wear Metals

Iron	ppm	22	15	16	14
Copper	ppm	6	3	3	3
Lead	ppm	2	0	1	<1
Tin	ppm	<1	0	0	0
Aluminum	ppm	3	0	<1	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



Additives

Calcium	ppm	1440	1394	1357	1413
Magnesium	ppm	6	6	6	6
Zinc	ppm	743	731	698	646
Phosphorus	ppm	670	623	606	627
Barium	ppm	1	0	0	0
Boron	ppm	<1	0	0	0

Diagnosis

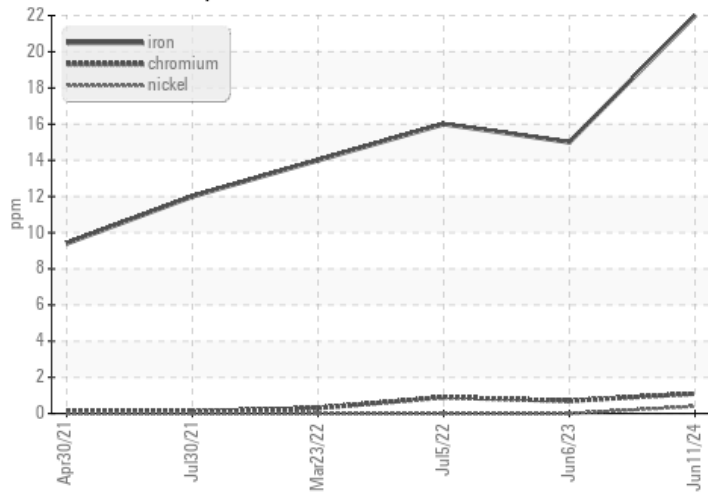
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further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

Depot: RECBRILH
 Unique No: 11089660
 Signed: Don Baldrige
 Report Date: 24 Jun 2024

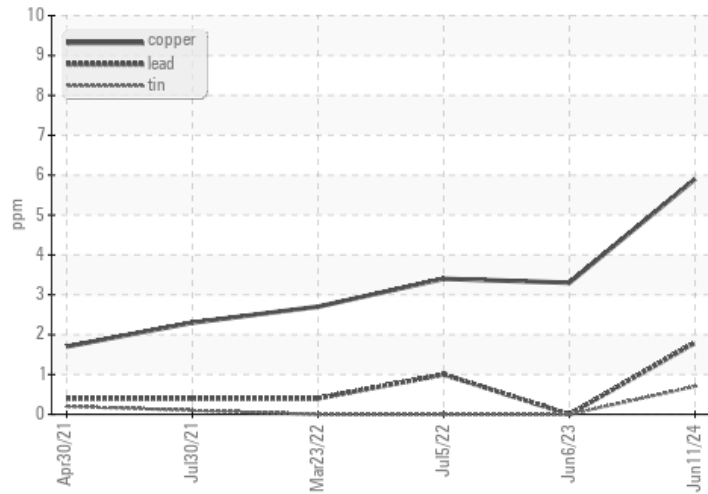


Graphs

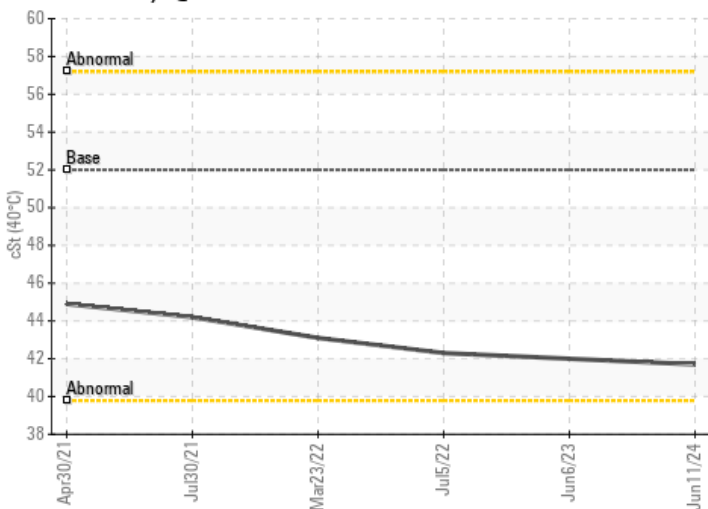
Ferrous Alloys



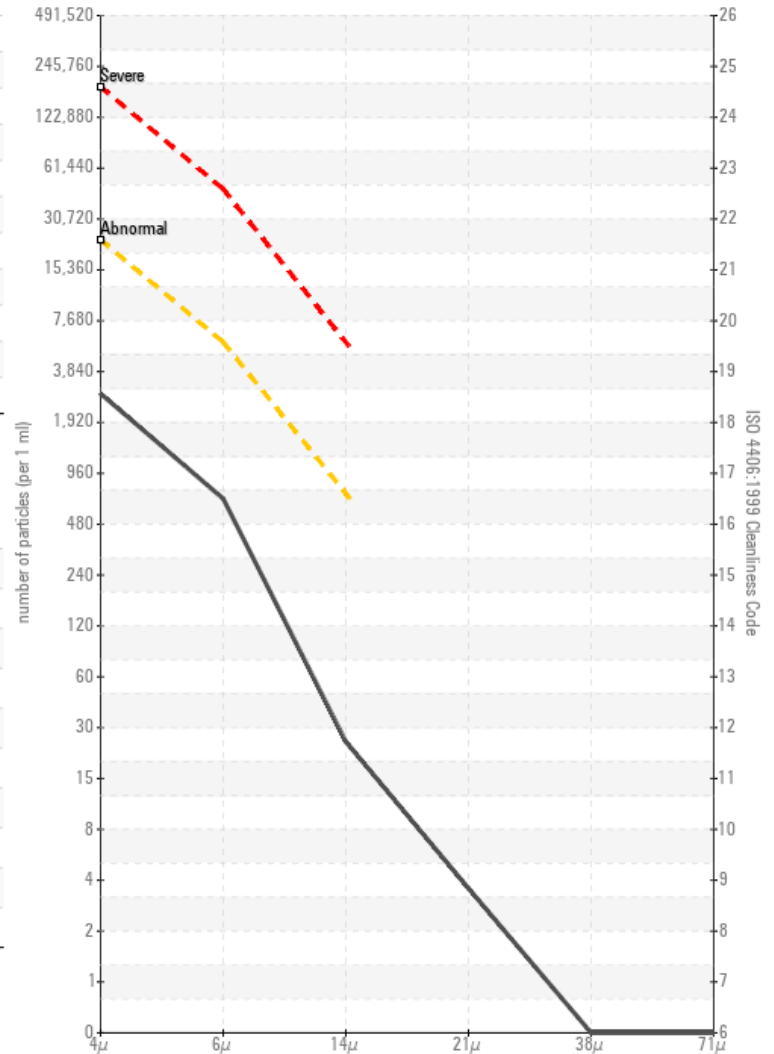
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

