

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 115240-1529 - Hydraulic System

Sample No: LHMC107852

Oil Type: LIEBHERR HYDRAULIC HVI



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Sample Information

Sample Number	LHMC107852	LH0272833	LH0254120	LHMC116228
Sample Date	17 Apr 2024	20 Dec 2023	17 Jun 2023	29 Sep 2022
Machine Hours	5177	4719	4033	2906
Oil Hours	458	0	775	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	42.7	42.6	42.9	42.2
Acid Number (AN)	mg KOH/g	1.16	1.18	1.14	1.06



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1032	4150	7551	4013
Particles >6µm		206	909	1208	567
Particles >14µm		11	56	20	27
ISO 4406:1999 (c)		17/15/11	19/17/13	20/17/11	19/16/12
Silicon	ppm	8	8	7	7
Sodium	ppm	0	<1	2	1
Potassium	ppm	3	0	4	0



Wear Metals

Iron	ppm	92	77	70	50
Copper	ppm	11	9	9	7
Lead	ppm	2	1	2	1
Tin	ppm	<1	<1	0	0
Aluminum	ppm	3	<1	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	2	1	<1	<1
Vanadium	ppm	<1	0	<1	0



Additives

Calcium	ppm	549	515	590	804
Magnesium	ppm	4	4	6	4
Zinc	ppm	621	604	646	614
Phosphorus	ppm	520	481	534	514
Barium	ppm	0	<1	0	0
Boron	ppm	0	0	0	0

Diagnosis

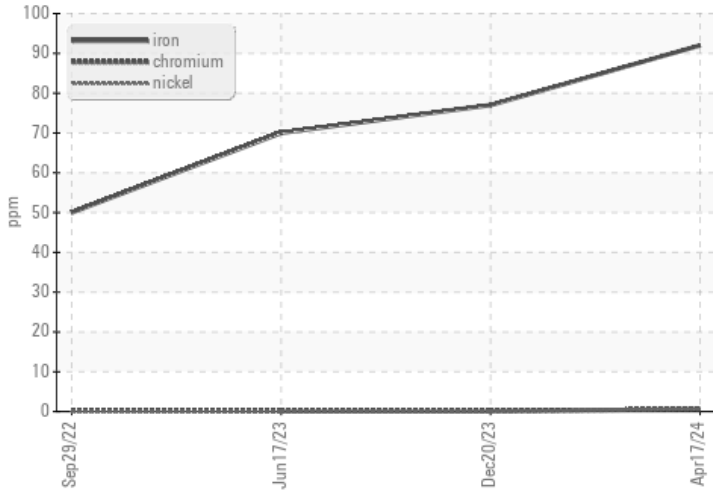
No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: DAVLORVA
 Unique No: 10992294
 Signed: Angela Borella
 Report Date: 24 Apr 2024

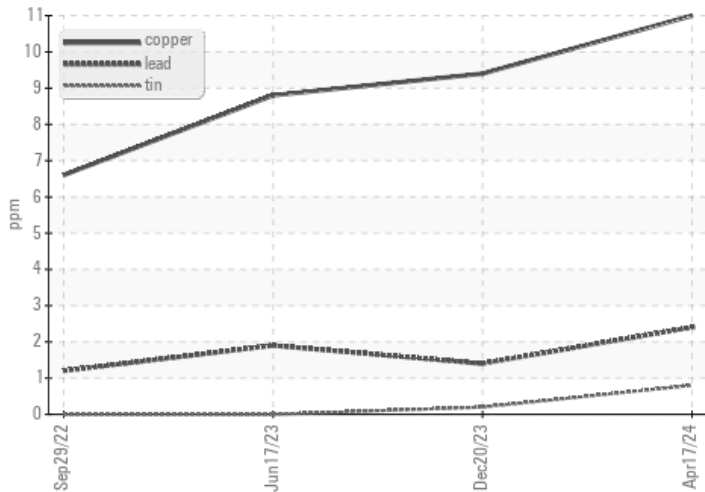


Graphs

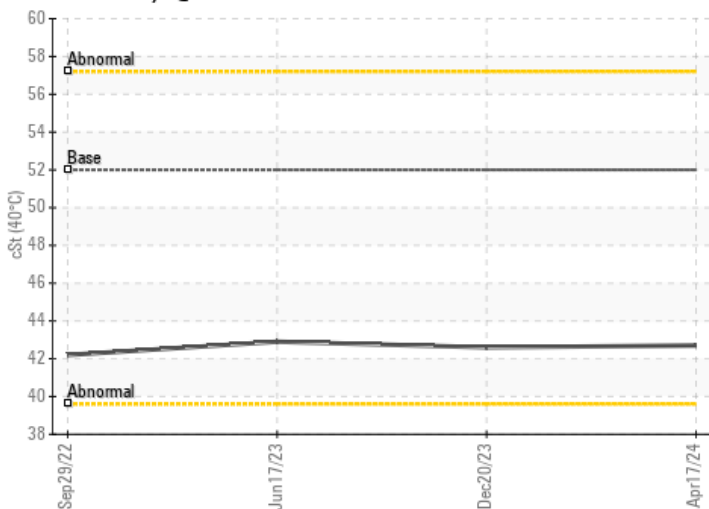
● Ferrous Alloys



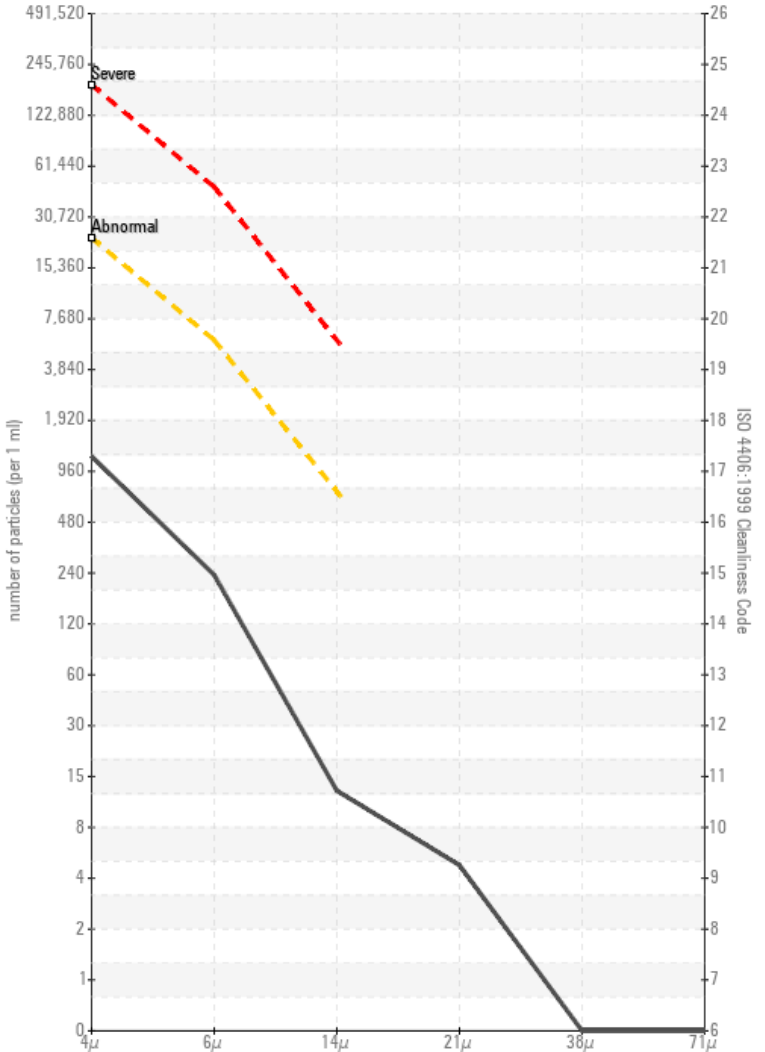
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

