

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936LC 047283-1490 - Hydraulic System

Sample No: LH0272867

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0272867	LH0268287	LH0229638	LHMC109240
Sample Date	11 Mar 2024	13 Oct 2023	09 Dec 2022	09 Sep 2022
Machine Hours	3939	3494	1807	12771
Oil Hours	0	0	1807	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

M&F CONCRETE PRODUCTS CO
 4002 CATLETT RD
 CATLETT, VA
 US 20119
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	41.8	41.9	42.6	42.5
Acid Number (AN)	mg KOH/g	1.07	1.476	2.078	1.16

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7586	8192	---	103464
Particles >6µm		1167	1882	---	23883
Particles >14µm		75	172	---	619
ISO 4406:1999 (c)		20/17/13	20/18/15	---	24/22/16
Silicon	ppm	6	6	5	4
Sodium	ppm	4	3	<1	<1
Potassium	ppm	1	1	2	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.



WEAR METALS

Iron	ppm	12	11	10	11
Copper	ppm	8	8	6	7
Lead	ppm	1	0	1	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	5	5	4	6
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

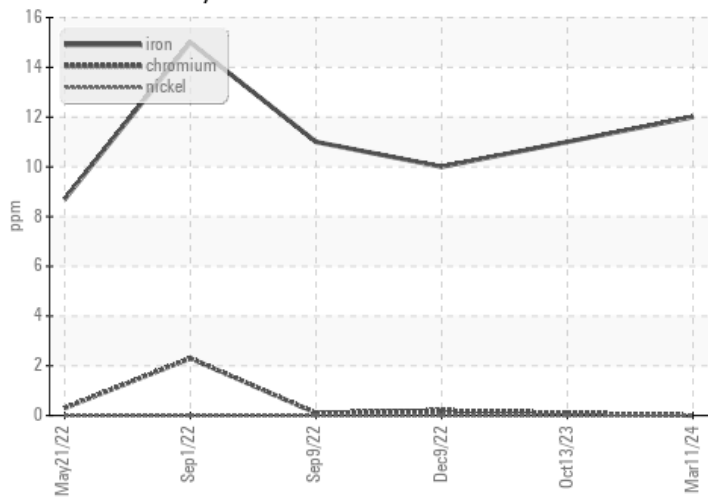
Calcium	ppm	1333	1306	1229	1316
Magnesium	ppm	8	8	6	6
Zinc	ppm	713	716	666	663
Phosphorus	ppm	618	609	561	600
Barium	ppm	0	0	<1	0
Boron	ppm	0	0	0	0

Depot: MECCAT
 Unique No: 10941165
 Signed: Wes Davis
 Report Date: 26 Mar 2024

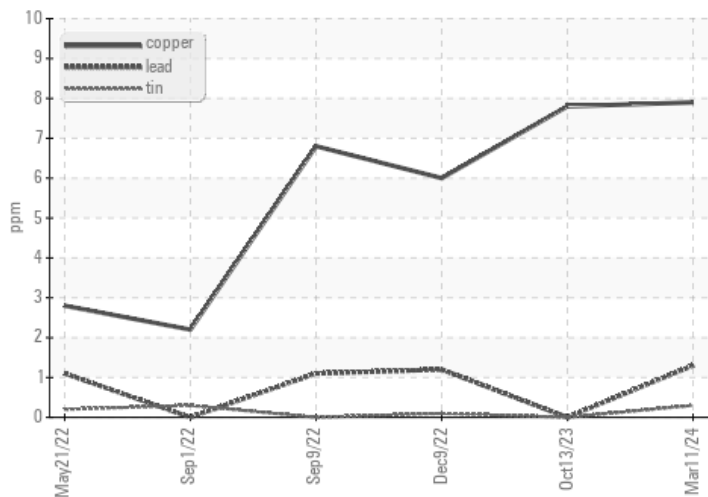


GRAPHS

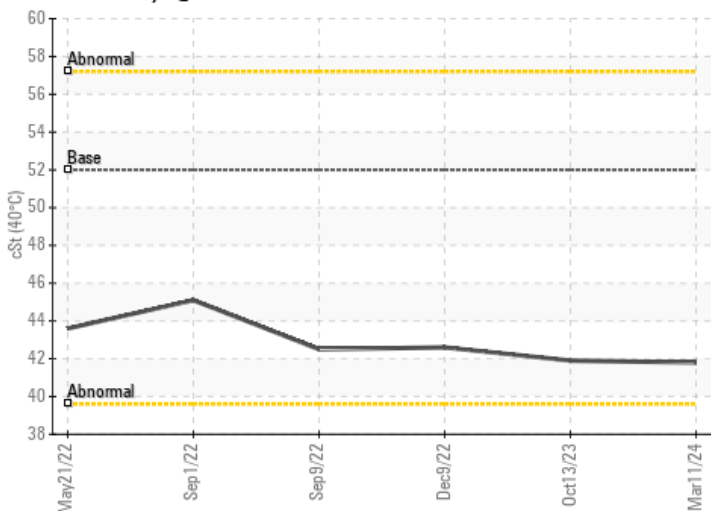
Ferrous Alloys



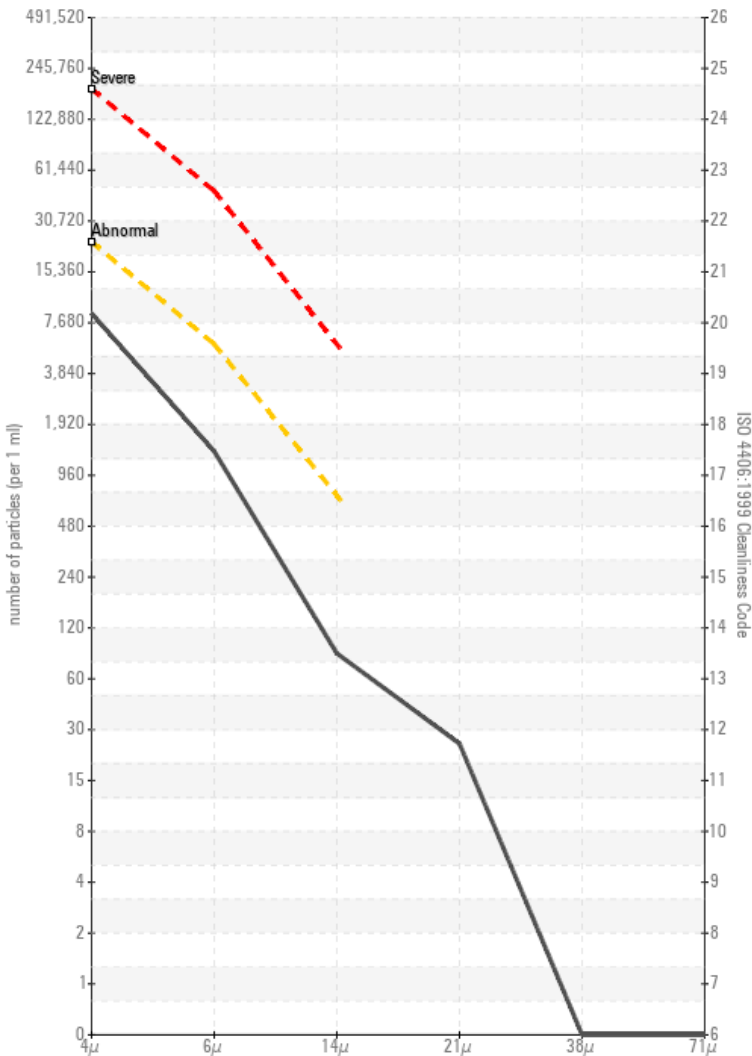
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

