

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936LC 047283-1490 - Hydraulic System

Sample No: LH0268287

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0268287	LH0229638	LHMC109240	LH0207405
Sample Date	13 Oct 2023	09 Dec 2022	09 Sep 2022	01 Sep 2022
Machine Hours	3494	1807	12771	1216
Oil Hours	0	1807	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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



OIL CONDITION

Visc @ 40°C	cSt	41.9	42.6	42.5	45.1
Acid Number (AN)	mg KOH/g	1.476	2.078	1.16	---

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		8192	---	103464	240859
Particles >6µm		1882	---	23883	148325
Particles >14µm		172	---	619	9131
ISO 4406:1999 (c)		20/18/15	---	24/22/16	25/24/20
Silicon	ppm	6	5	4	19
Sodium	ppm	3	<1	<1	1
Potassium	ppm	1	2	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.



WEAR METALS

Iron	ppm	11	10	11	15
Copper	ppm	8	6	7	2
Lead	ppm	0	1	1	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	5	4	6	7
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	0	0	0	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

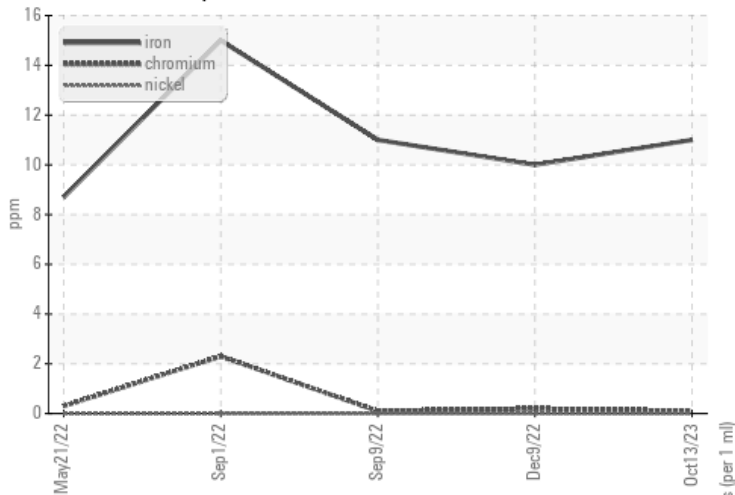
Calcium	ppm	1306	1229	1316	418
Magnesium	ppm	8	6	6	11
Zinc	ppm	716	666	663	429
Phosphorus	ppm	609	561	600	379
Barium	ppm	0	<1	0	0
Boron	ppm	0	0	0	4

Depot: MECCAT
Unique No: 10778420
Signed: Wes Davis
Report Date: 11 Dec 2023

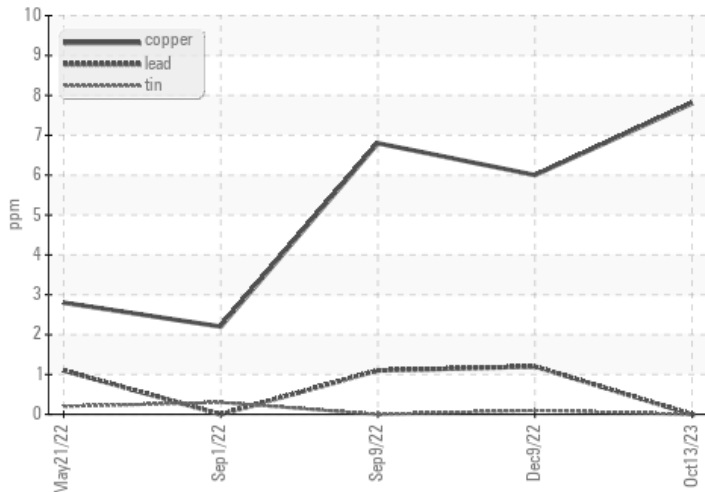


GRAPHS

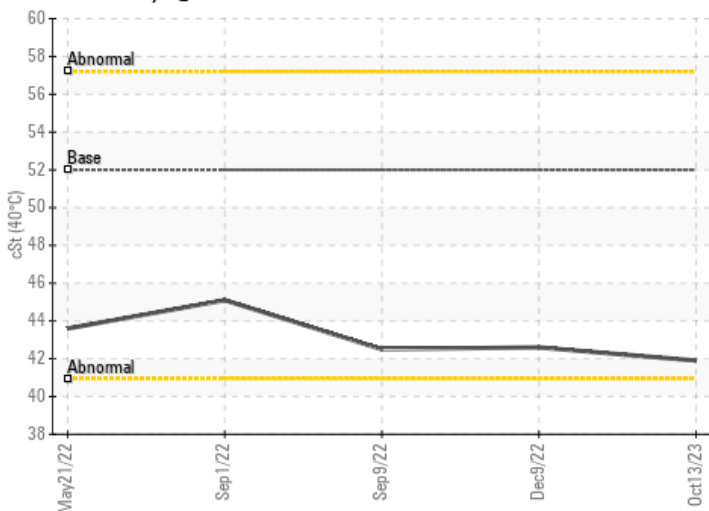
Ferrous Alloys



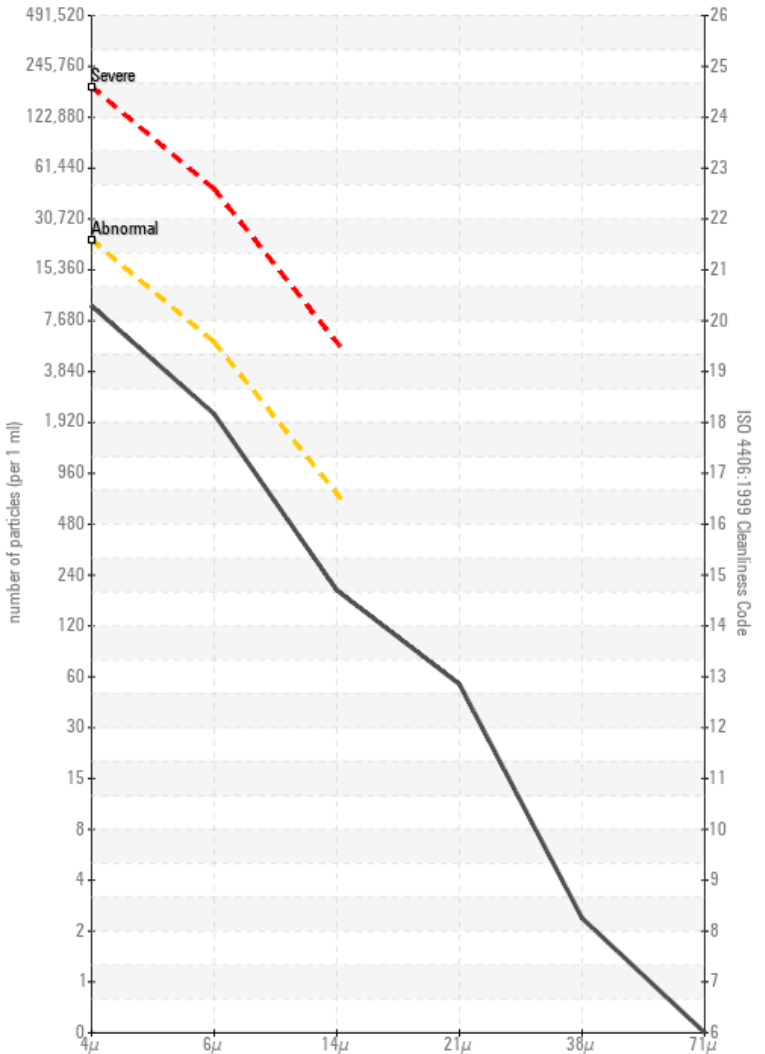
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

