

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH24 1251-107721 - Hydraulic System

Sample No: LH0243994

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0243994	LH0254096	LH0243984	LH0229668
Sample Date	19 Jul 2023	27 Apr 2023	03 Jan 2023	13 Sep 2022
Machine Hours	8881	8247	7421	6696
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

POTOMAC METALS INC
410 16TH AVENUE
RANSON, WV
US 25438
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	43.0	43.0	42.9	42.8
Acid Number (AN)	mg KOH/g	0.70	0.71	0.74	0.78

T:
F:



CONTAMINATION

Particles >4µm	905	18803	17167	18992	
Particles >6µm	121	1850	2523	1344	
Particles >14µm	8	16	58	25	
ISO 4406:1999 (c)	17/14/10	21/18/11	21/19/13	21/18/12	
Silicon	ppm	1	1	1	<1
Sodium	ppm	0	0	<1	<1
Potassium	ppm	<1	<1	<1	0

Diagnosis

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



WEAR METALS

Iron	ppm	18	19	17	15
Copper	ppm	6	7	6	6
Lead	ppm	2	2	2	1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	2	2	2	1
Molybdenum	ppm	0	<1	<1	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

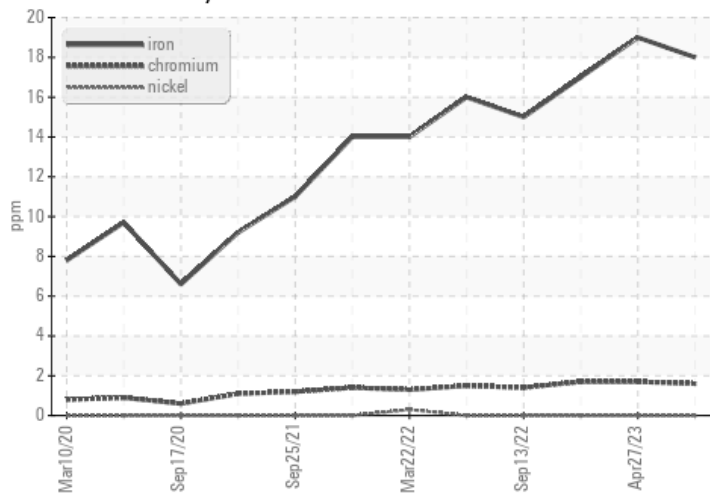
Calcium	ppm	410	449	447	431
Magnesium	ppm	45	50	49	48
Zinc	ppm	497	520	513	495
Phosphorus	ppm	387	397	407	401
Barium	ppm	0	0	<1	0
Boron	ppm	0	0	0	0

Depot: POTRAN
Unique No: 10608702
Signed: Don Baldrige
Report Date: 22 Aug 2023

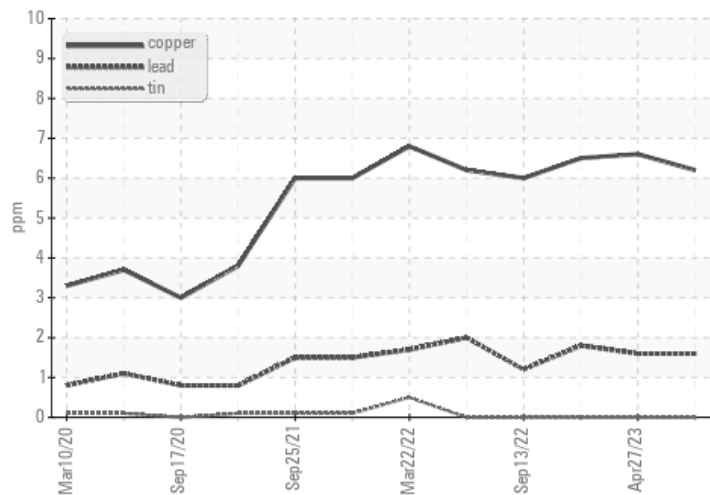


GRAPHS

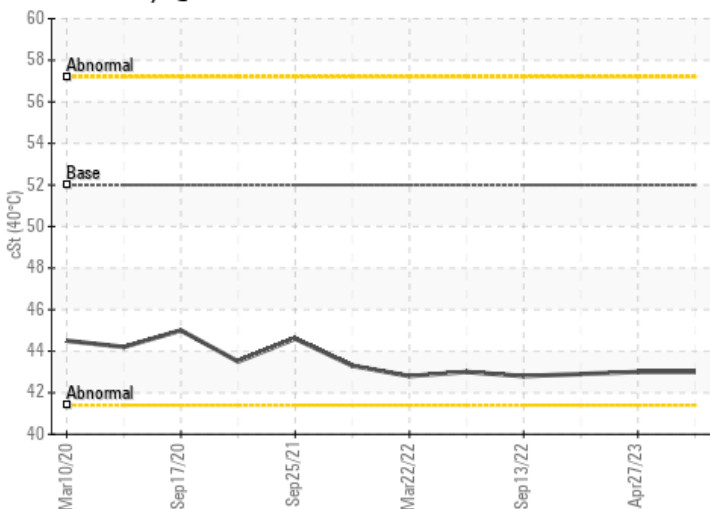
Ferrous Alloys



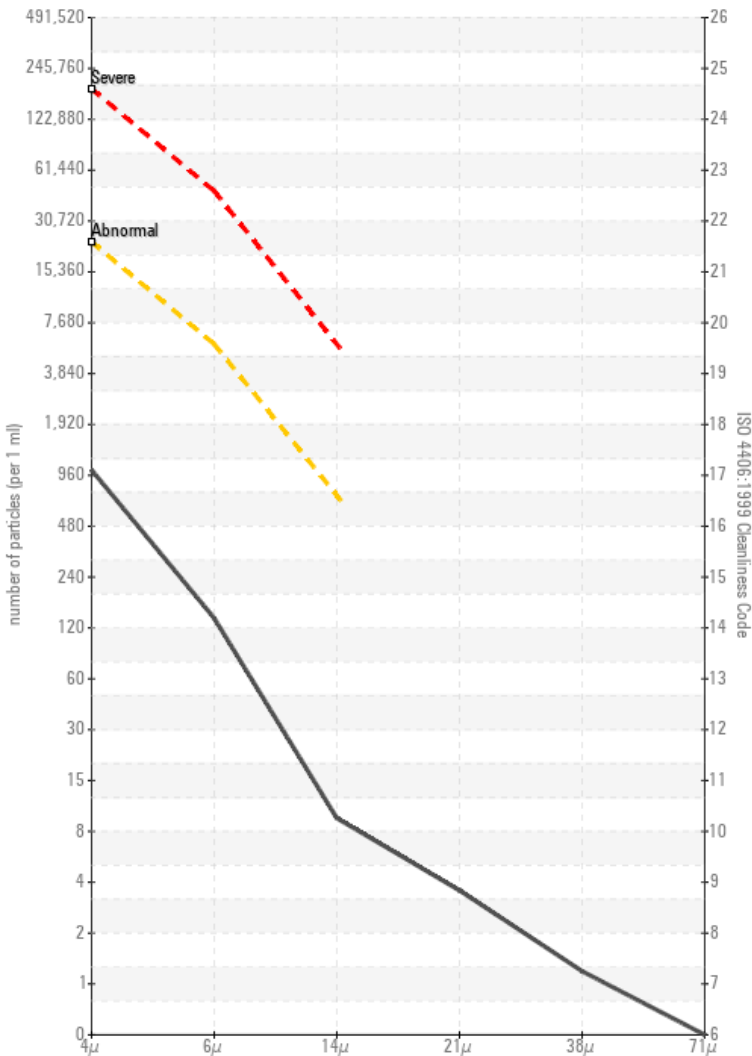
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

