

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 119208-1217 - Hydraulic System

Sample No: LH0267392

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0267392	LH0257451	LH0200263	---
Sample Date	04 Jan 2024	05 Jul 2023	30 Nov 2022	---
Machine Hours	4478	3275	1762	---
Oil Hours	0	3000	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

TT & E IRON

1529 WEST GARNER RD
GARNER, NC
US 27529
Contact: MICHAEL STANCIL
culaterprowler@aol.com
T: (919)524-4326
F:



OIL CONDITION

Visc @ 40°C	cSt	41.1	42.6	44.6	---
Acid Number (AN)	mg KOH/g	0.88	1.00	1.063	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		12428	939	468	---
Particles >6µm		4628	270	144	---
Particles >14µm		453	36	11	---
ISO 4406:1999 (c)		21/19/16	17/15/12	16/14/11	---
Silicon	ppm	3	2	2	---
Sodium	ppm	0	0	2	---
Potassium	ppm	2	2	0	---

Diagnosis

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



WEAR METALS

Iron	ppm	106	71	22	---
Copper	ppm	13	12	4	---
Lead	ppm	2	2	<1	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	2	1	<1	---
Chromium	ppm	3	3	<1	---
Molybdenum	ppm	1	<1	<1	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

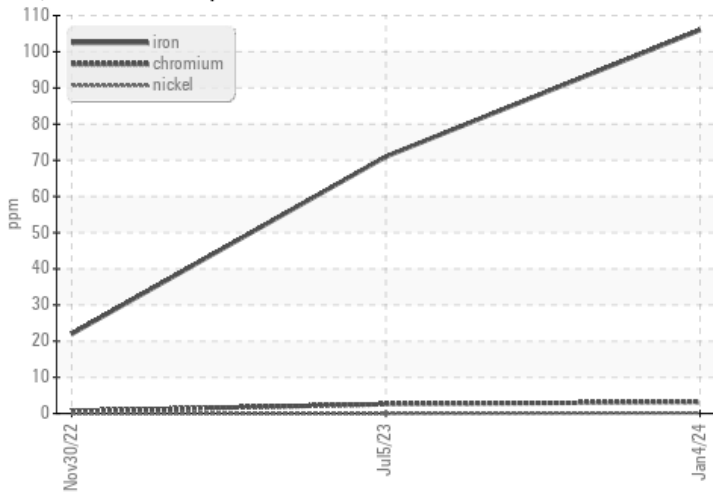
Calcium	ppm	508	577	1042	---
Magnesium	ppm	8	3	6	---
Zinc	ppm	580	596	559	---
Phosphorus	ppm	453	468	475	---
Barium	ppm	8	0	0	---
Boron	ppm	0	0	<1	---

Depot: TTENEW
Unique No: 10819681
Signed: Don Baldrige
Report Date: 09 Jan 2024

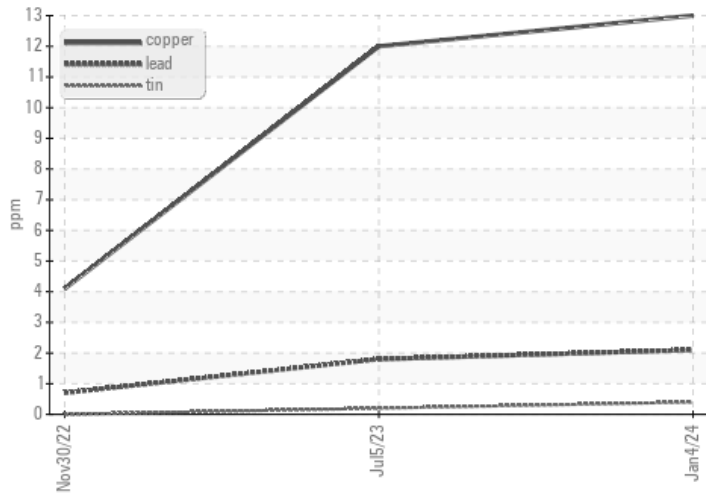


GRAPHS

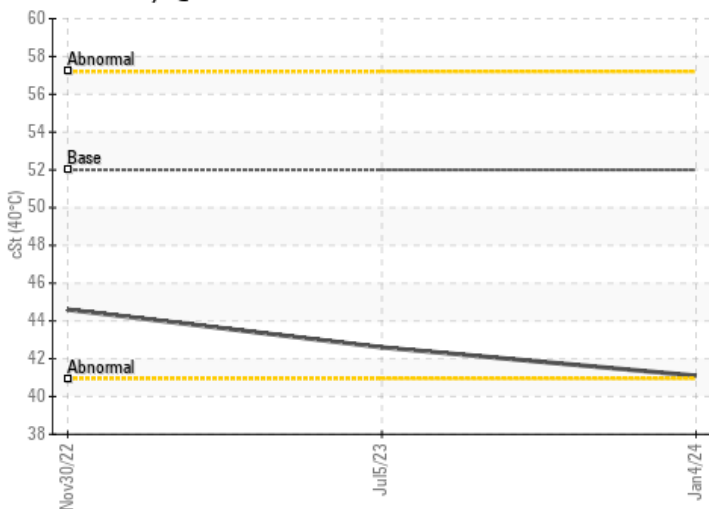
● Ferrous Alloys



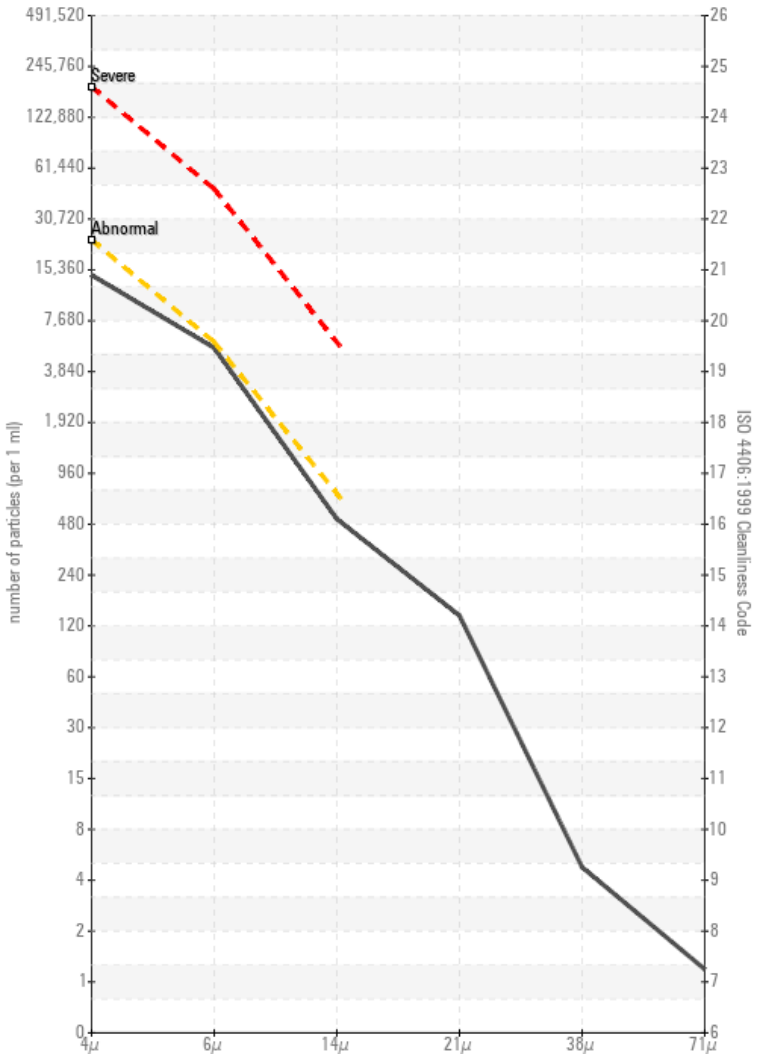
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

