

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-115017 - Hydraulic System

Sample No: LH0263877

Oil Type: LIEBHERR HYDRAULIC HVI



ALTER RECYCLING

2175 BADGERLAND DR
GREEN BAY, WI
US 54303

Contact: LORI GRAVES

lori.graves@altertrading.com

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F:



SAMPLE INFORMATION

Sample Number	LH0263877	LH0243378	LHMC160942	LH0153417
Sample Date	09 Aug 2023	03 Apr 2023	18 Dec 2022	21 Sep 2022
Machine Hours	7823	7172	6575	6081
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	42.3	42.2	42.0	42.1
Acid Number (AN)	mg KOH/g	0.47	0.50	0.51	0.55



CONTAMINATION

Particles >4µm		894	10653	5010	3546
Particles >6µm		240	774	228	316
Particles >14µm		22	15	7	28
ISO 4406:1999 (c)		17/15/12	21/17/11	20/15/10	19/15/12
Silicon	ppm	1	<1	2	1
Sodium	ppm	<1	1	0	1
Potassium	ppm	4	4	8	4



WEAR METALS

Iron	ppm	25	23	27	24
Copper	ppm	2	2	3	2
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	0	0
Chromium	ppm	1	1	1	<1
Molybdenum	ppm	6	6	6	4
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	205	201	234	224
Magnesium	ppm	31	33	28	24
Zinc	ppm	511	495	508	483
Phosphorus	ppm	412	392	399	400
Barium	ppm	0	0	0	0
Boron	ppm	10	12	14	13

Diagnosis

Resample at the next service interval to monitor. All 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: ALTGRE

Unique No: 10605374

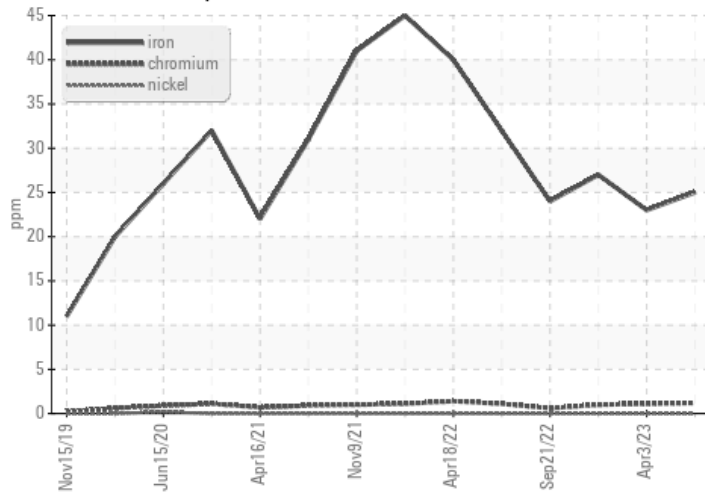
Signed: Jonathan Hester

Report Date: 17 Aug 2023

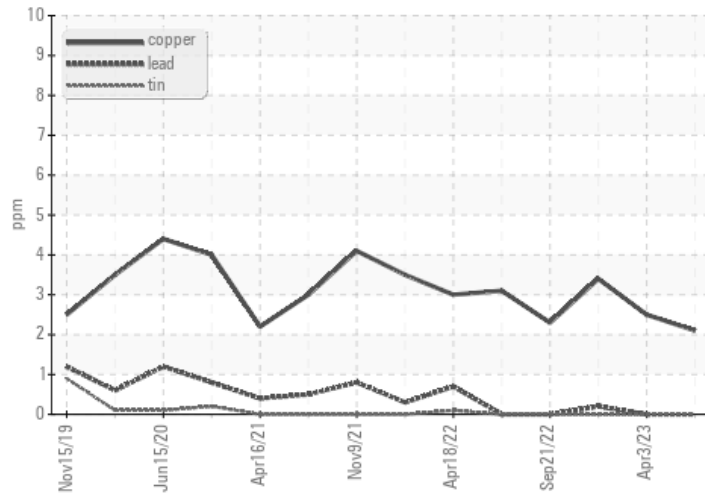


GRAPHS

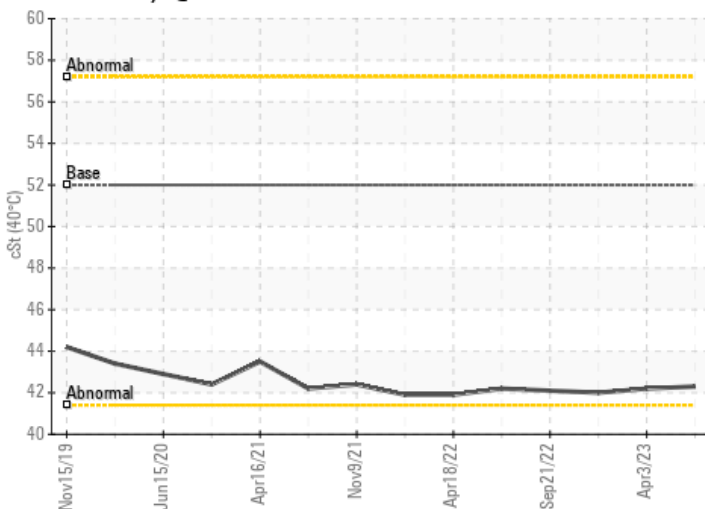
Ferrous Alloys



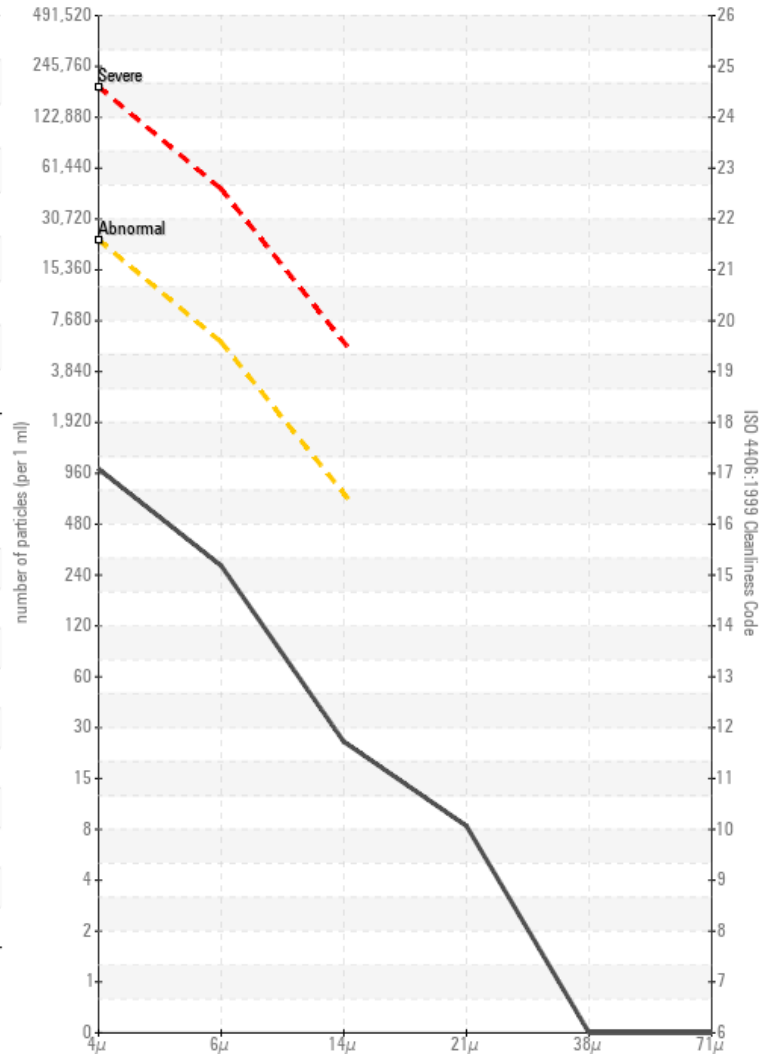
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

