

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(343450)] 122617-1215 - Hydraulic System

Sample No: LH0193585

Oil Type: LIEBHERR HYDRAULIC HVI



#### SAMPLE INFORMATION

Sample Number	LH0193585	LH0193571	LH0193557	LH0193543
Sample Date	14 Jun 2023	27 Oct 2022	25 Apr 2022	28 Oct 2021
Machine Hours	4102	3022	2588	1101
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

#### American Iron and Metal

10305 Metropolitan Est, Garage porte 13  
 Montreal, QC  
 CA H1B 1A1  
 Contact: Sebastien Liautaud  
 sliautaud@aimrecyclinggroup.com  
 T:  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	26.3	42.5	44.0	44.9
Acid Number (AN)	mg KOH/g	0.90	0.74	1.55	1.32



#### CONTAMINATION

Particles >4µm		2269	9878	3304	1447
Particles >6µm		662	2305	544	290
Particles >14µm		52	91	7	25
ISO 4406:1999 (c)		18/17/13	20/18/14	19/16/10	18/15/12
Silicon	ppm	<1	1	2	1
Sodium	ppm	<1	1	1	<1
Potassium	ppm	<1	<1	1	2



#### WEAR METALS

Iron	ppm	20	15	15	13
Copper	ppm	2	2	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	<1
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	521	818	1326	1317
Magnesium	ppm	2	4	6	6
Zinc	ppm	529	586	696	694
Phosphorus	ppm	474	537	638	643
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	<1	<1

#### Diagnosis

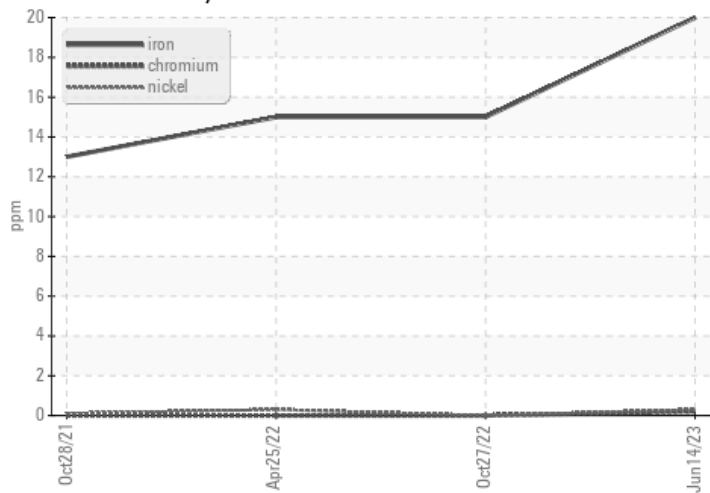
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 22 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: LACMON  
 Unique No: 5594388  
 Signed: Kevin Marson  
 Report Date: 21 Jun 2023

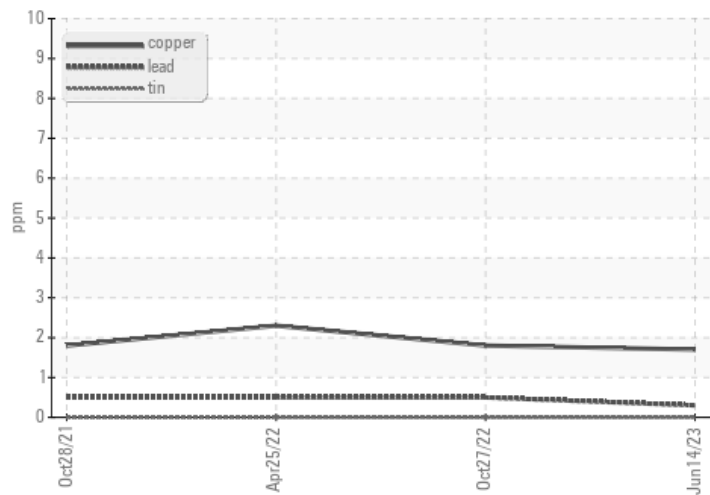


### GRAPHS

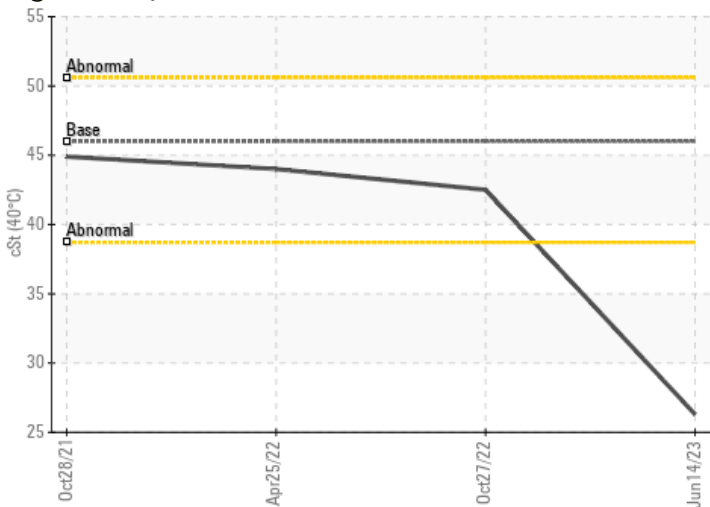
#### Ferrous Alloys



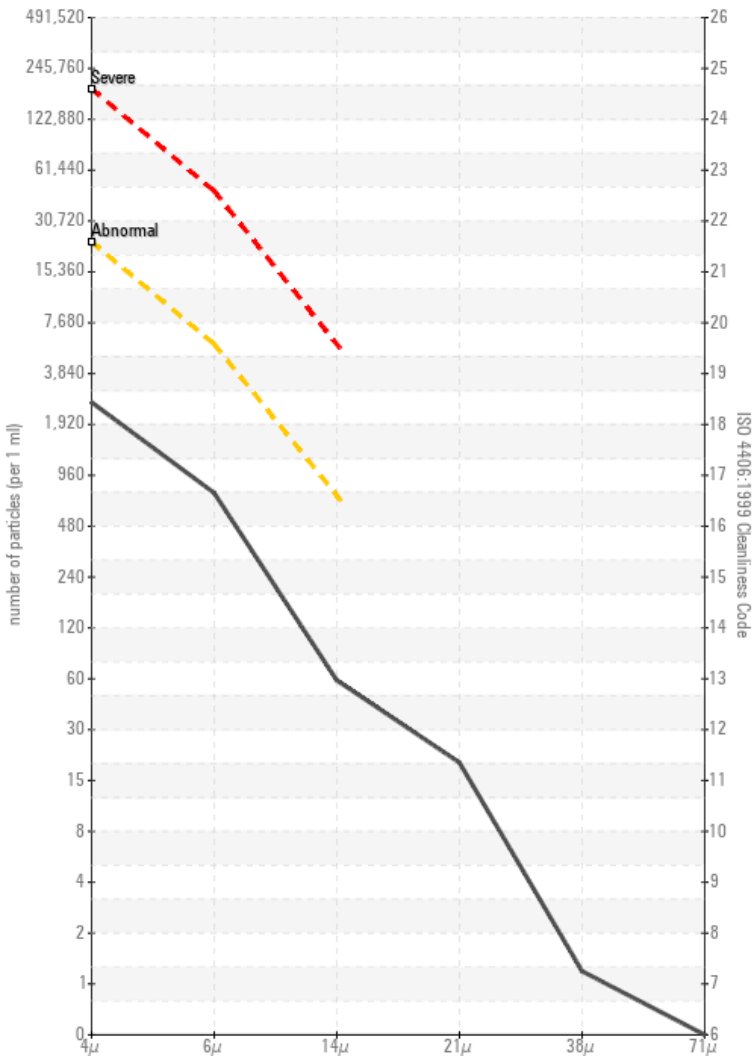
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

