

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934C 064064-1007 - Hydraulic System

Sample No: LH0254760

Oil Type: LIEBHERR HYDRAULIC HVI



**AMERICAN STATE EQUIPMENT CO.**  
 2400 NORTH 14TH AVENUE  
 WAUSAU, WI  
 US 54401  
 Contact: CHRIS BARTNIK  
 cbartnik@amstate.com  
 T: (715)675-6900  
 F: (715)675-9748



#### SAMPLE INFORMATION

Sample Number	LH0254760	LH0254033	LH0243220	LH0236100
Sample Date	23 Jun 2023	28 Mar 2023	11 Jan 2023	10 Oct 2022
Machine Hours	24973	24487	24002	23520
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	43.7	43.1	43.9	43.6
Acid Number (AN)	mg KOH/g	0.80	0.69	0.77	0.79



#### CONTAMINATION

Particles >4µm		2882	711	3041	4159
Particles >6µm		816	174	485	787
Particles >14µm		72	10	41	97
ISO 4406:1999 (c)		19/17/13	17/15/10	19/16/13	19/17/14
Silicon	ppm	5	4	4	3
Sodium	ppm	<1	3	4	3
Potassium	ppm	2	0	0	0



#### WEAR METALS

Iron	ppm	7	6	7	6
Copper	ppm	2	2	2	2
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	2	0	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	<1	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	1607	1587	1488	1186
Magnesium	ppm	5	10	7	6
Zinc	ppm	833	791	735	709
Phosphorus	ppm	694	667	548	602
Barium	ppm	0	0	0	0
Boron	ppm	44	37	33	25

#### Diagnosis

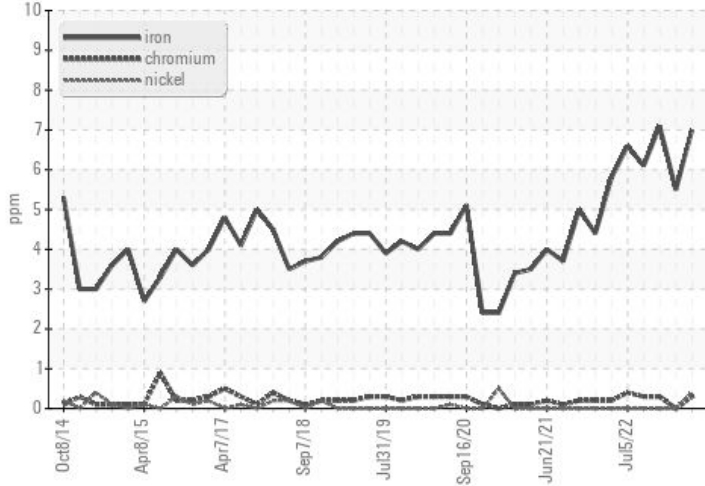
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further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

Depot: LEC0008  
 Unique No: 10546657  
 Signed: Wes Davis  
 Report Date: 06 Jul 2023

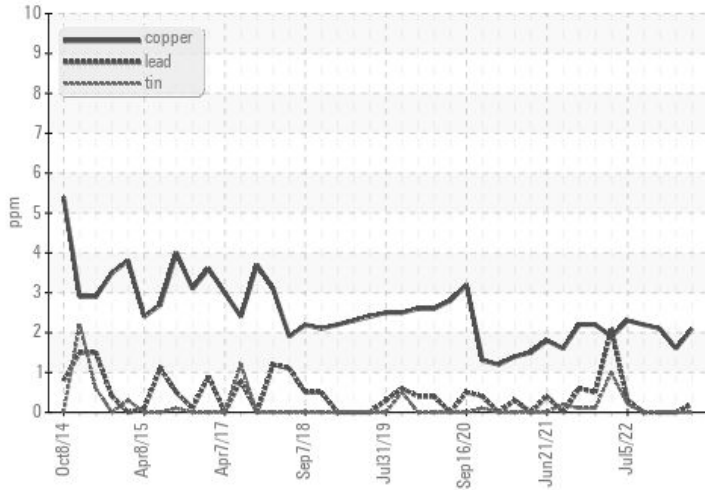


### GRAPHS

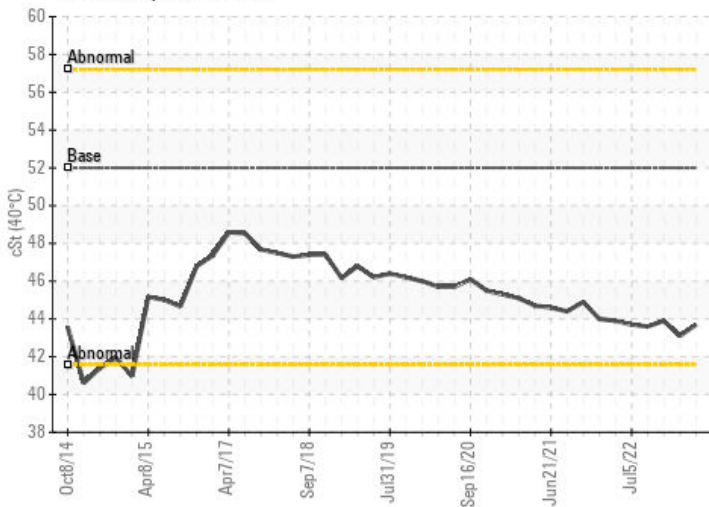
Ferrous Alloys



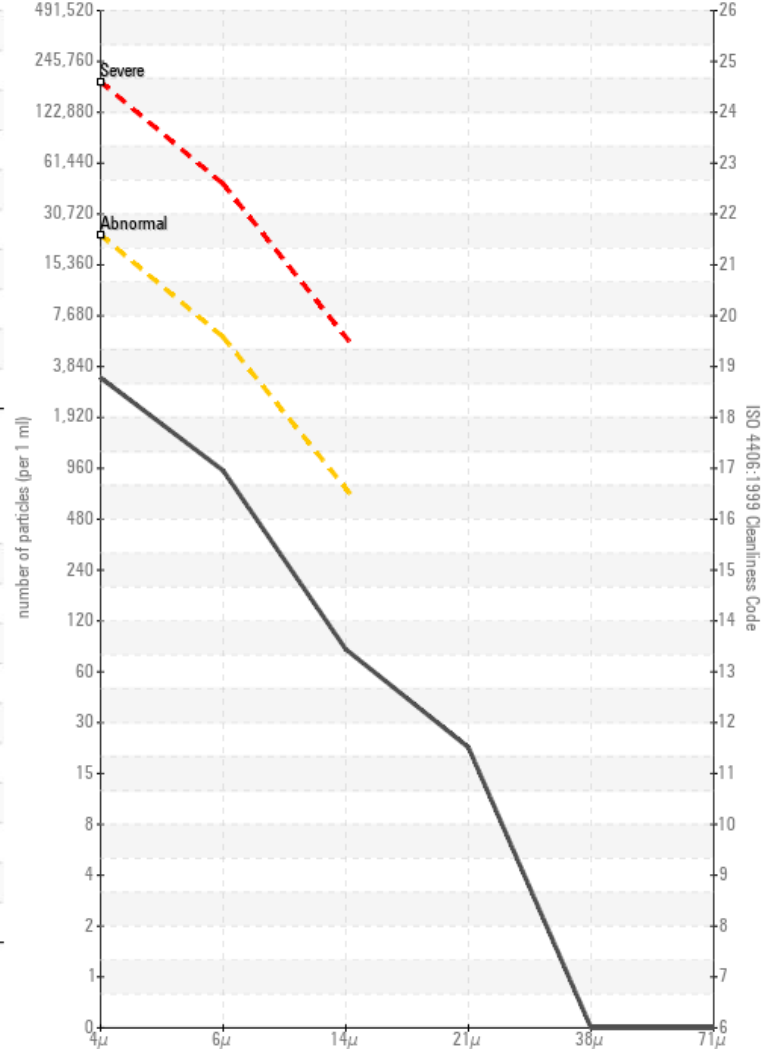
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

