

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 120737-1216 - Hydraulic System

Sample No: LH0173876

Oil Type: CHEVRON HYDRAULIC OIL AW ISO 46



#### STAIMAN RECYCLING

201 HEPBURN ST  
WILLIAMSPORT, PA  
US 17701

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F:



#### SAMPLE INFORMATION

Sample Number	LH0173876	LHMC108375	LH0173879	---
Sample Date	21 Jan 2022	15 Apr 2021	14 Dec 2020	---
Machine Hours	4199	2044	1058	---
Oil Hours	4199	2044	1058	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---



#### OIL CONDITION

Visc @ 40°C	cSt	● 42.9	● 43.0	● 44.1	---
Acid Number (AN)	mg KOH/g	● 1.17	● 1.060	● 1.217	---



#### CONTAMINATION

Water	%	---	---	● 0.138	---
Silicon	ppm	● 2	● 0	● <1	---
Sodium	ppm	● 2	● <1	● 2	---
Potassium	ppm	● 0	● 1	● 0	---



#### WEAR METALS

Iron	ppm	● 12	● 8	● 8	---
Copper	ppm	● 2	● 3	● 5	---
Lead	ppm	● <1	● <1	● <1	---
Tin	ppm	● <1	● 0	● <1	---
Aluminum	ppm	● <1	● 0	● <1	---
Chromium	ppm	● <1	● <1	● <1	---
Molybdenum	ppm	● <1	● 0	● <1	---
Nickel	ppm	● 0	● 0	● 0	---
Titanium	ppm	0	0	0	---
Silver	ppm	<1	<1	4	---
Manganese	ppm	● <1	● <1	● <1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	● 924	● 1051	● 1406	---
Magnesium	ppm	● 5	● 5	● 6	---
Zinc	ppm	● 608	● 657	● 724	---
Phosphorus	ppm	● 497	● 539	● 640	---
Barium	ppm	● 0	● 0	● 0	---
Boron	ppm	● 7	● 1	● 4	---

#### Diagnosis

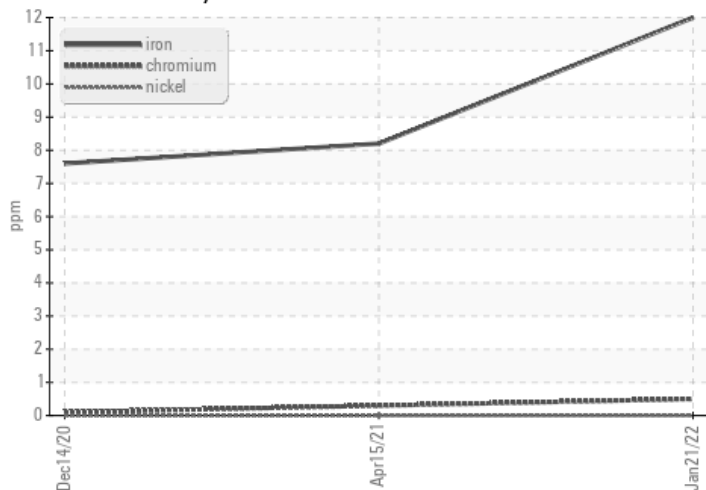
The filter change at the time of sampling has been noted. We advise that you inspect for possible wear. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. 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: STAWILLH  
Unique No: 9829262  
Signed: Jonathan Hester  
Report Date: 01 Feb 2022

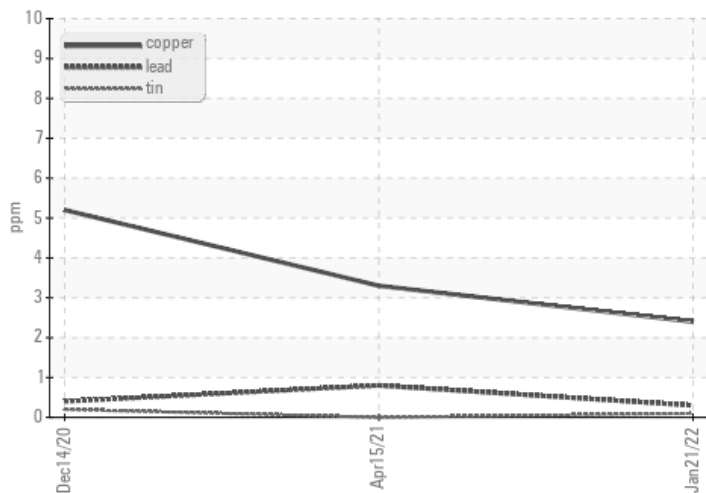


### GRAPHS

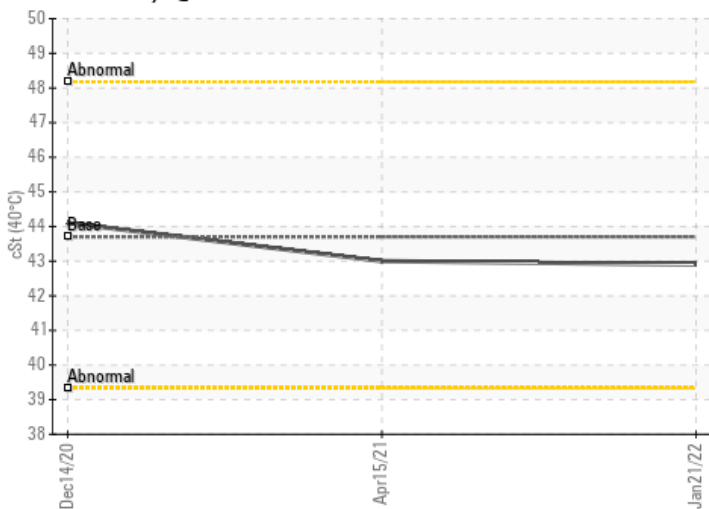
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Acid Number

