

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 120737-1216 - Hydraulic System

Sample No: LH0173879

Oil Type: CHEVRON HYDRAULIC OIL AW ISO 46



STAIMAN RECYCLING

201 HEPBURN ST
WILLIAMSPORT, PA
US 17701

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SAMPLE INFORMATION

Sample Number	LH0173879	---	---	---
Sample Date	14 Dec 2020	---	---	---
Machine Hours	1058	---	---	---
Oil Hours	1058	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

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



CONTAMINATION

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



WEAR METALS

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



ADDITIVES

Calcium	ppm	● 1406	---	---	---
Magnesium	ppm	● 6	---	---	---
Zinc	ppm	● 724	---	---	---
Phosphorus	ppm	● 640	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 4	---	---	---

Diagnosis

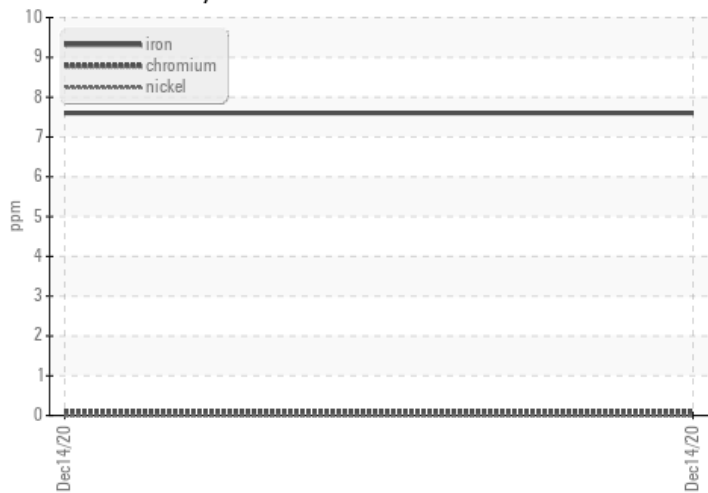
We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a trace of moisture present in the oil. Free water present. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

Depot: STAWILLH
Unique No: 9300554
Signed: Don Baldrige
Report Date: 29 Dec 2020

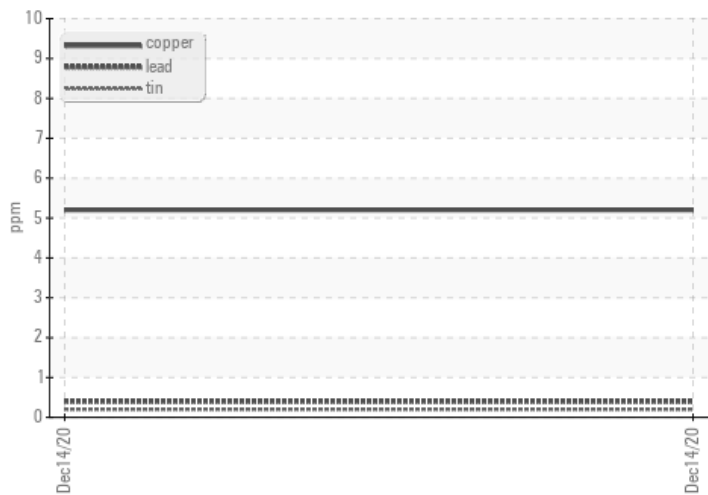


GRAPHS

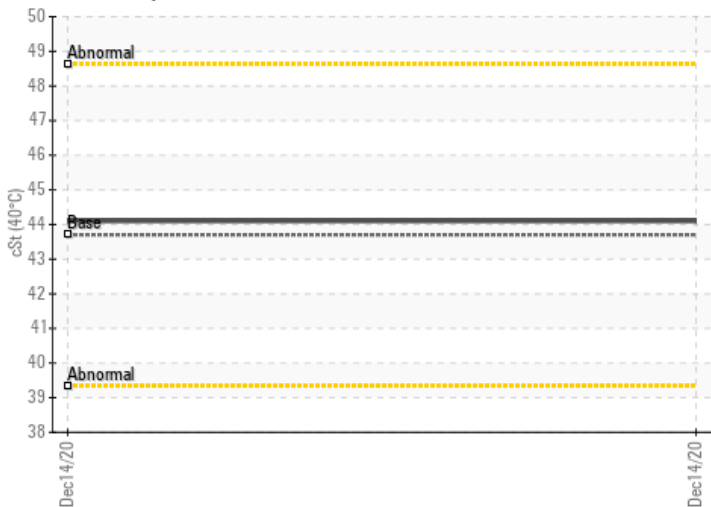
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

