

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 156305-1215 - Hydraulic System

Sample No: LH0278470

Oil Type: {unknown}



Urban Mine
72 Rothwell Rd.
Winnipeg, MB
CA R3P 2H7
Contact: SERVICE

T: (204)774-0192
F:



SAMPLE INFORMATION

Sample Number	LH0278470	---	---	---
Sample Date	20 Feb 2024	---	---	---
Machine Hours	536	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 45.3	---	---	---
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CONTAMINATION

Water	%	● 0.476	---	---	---
Particles >4µm		● 46278	---	---	---
Particles >6µm		● 18346	---	---	---
Particles >14µm		● 991	---	---	---
ISO 4406:1999 (c)		23/21/17	---	---	---
Silicon	ppm	● 2	---	---	---
Sodium	ppm	● <1	---	---	---
Potassium	ppm	● 1	---	---	---



WEAR METALS

Iron	ppm	● 7	---	---	---
Copper	ppm	● 2	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1243	---	---	---
Magnesium	ppm	7	---	---	---
Zinc	ppm	700	---	---	---
Phosphorus	ppm	655	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	<1	---	---	---

Diagnosis

We advise that you check for the source of water entry. We recommend that you change the oil. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. The white residue present in the sample is oil additive precipitate. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

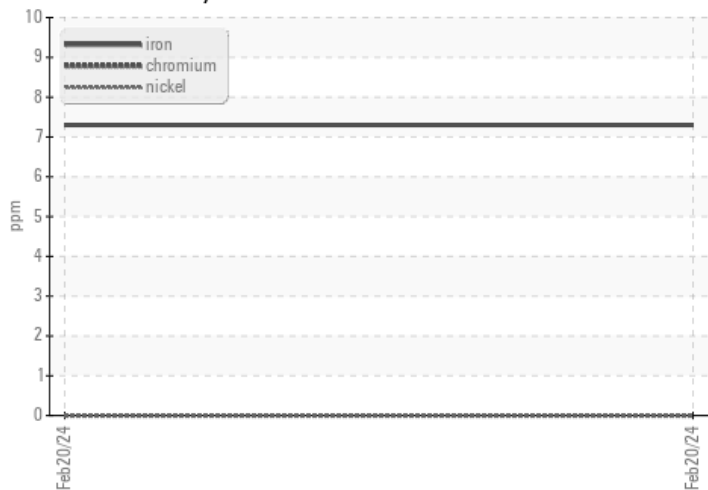
Depot: URBWIN
Unique No: 5734539
Signed: Kevin Marson
Report Date: 23 Feb 2024

Submitted By: Vincent Blanchette

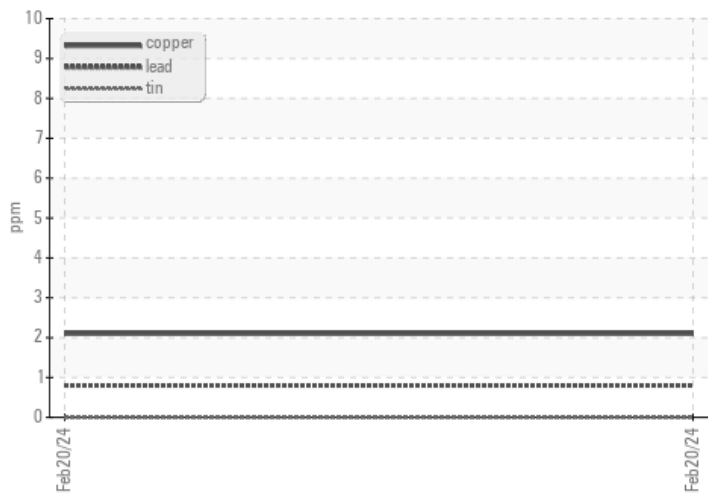


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

