

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R924 054969-1487 - Hydraulic System

Sample No: LH0278948

Oil Type: LIEBHERR HYDRAULIC HVI



CLOUTIER VENTURES LTD.
 59 MATTHEWS STREET, R.R. # 5
 PEMBROKE, ON
 CA K8A 0A6
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SAMPLE INFORMATION

Sample Number	LH0278948	---	---	---
Sample Date	26 Jan 2024	---	---	---
Machine Hours	2495	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 42.9	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 4256	---	---	---
Particles >6µm		● 751	---	---	---
Particles >14µm		● 31	---	---	---
ISO 4406:1999 (c)		19/17/12	---	---	---
Silicon	ppm	● 5	---	---	---
Sodium	ppm	● 4	---	---	---
Potassium	ppm	● 1	---	---	---



WEAR METALS

Iron	ppm	● 6	---	---	---
Copper	ppm	● 63	---	---	---
Lead	ppm	● 9	---	---	---
Tin	ppm	● 2	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 1077	---	---	---
Magnesium	ppm	● 4	---	---	---
Zinc	ppm	● 682	---	---	---
Phosphorus	ppm	● 579	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● <1	---	---	---

Diagnosis

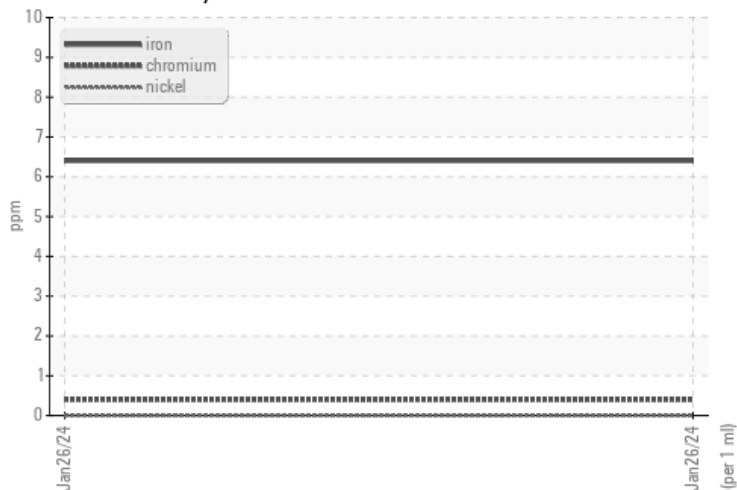
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Copper and lead ppm levels are abnormal. Bearing and/or bushing wear is indicated. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CLOPEM
 Unique No: 5722868
 Signed: Bill Quesnel
 Report Date: 06 Feb 2024

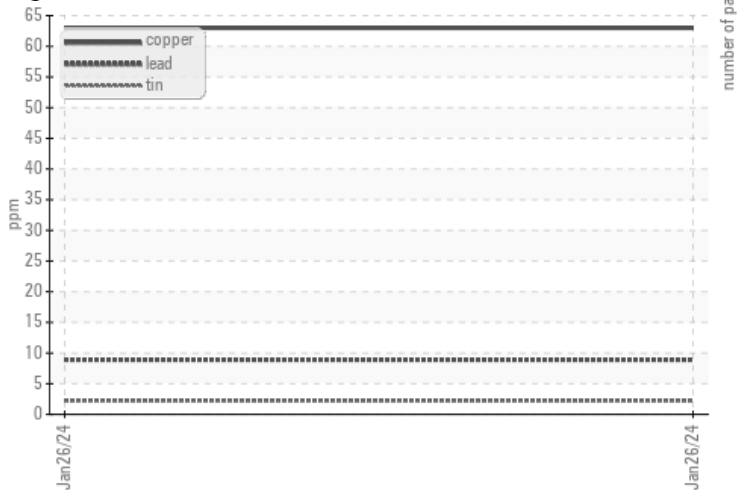


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

