

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 093999-1215 - Swing Drive

Sample No: LH0243896

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE
NEWPORT NEWS, VA
US 23607

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SAMPLE INFORMATION

Sample Number	LH0243896	---	---	---
Sample Date	28 Feb 2024	---	---	---
Machine Hours	13886	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 248	---	---	---
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CONTAMINATION

Water	%	● 1.16	---	---	---
Silicon	ppm	● 10	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 2	---	---	---



WEAR METALS

Iron	ppm	● 2902	---	---	---
Copper	ppm	● 720	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 23	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 28	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 4	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	● 21	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	● 26	---	---	---
Magnesium	ppm	● 4	---	---	---
Zinc	ppm	● 130	---	---	---
Phosphorus	ppm	● 2306	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 2	---	---	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LIEBHERRUS
Unique No: 10915871
Signed: Jonathan Hester
Report Date: 19 Mar 2024

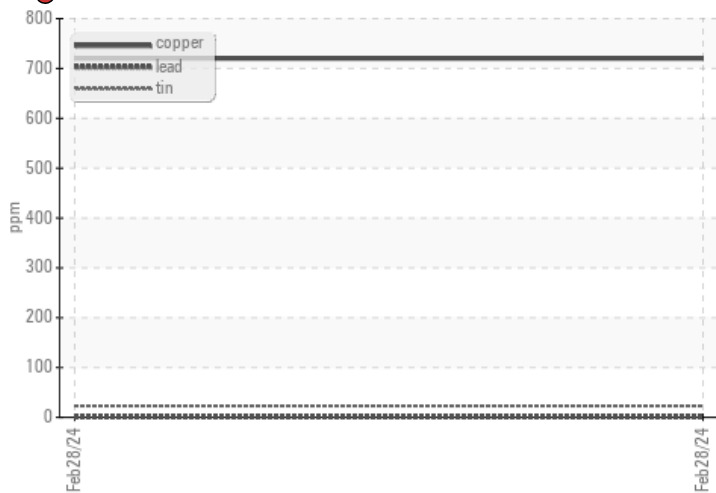


GRAPHS

● Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

