

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M Liebherr LH40M (S/N 1215-98205) - Slewing C

Sample No: LH0267602

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR EQUIPMENT SOURCE
 8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
 Contact: SHERWOOD LUCAS
 sherwood.lucas@liebherr.com
 T:
 F: (919)329-0084



Sample Information

Sample Number	LH0267602	---	---	---
Sample Date	19 Jun 2024	---	---	---
Machine Hours	12027	---	---	---
Oil Hours	743	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



Oil Condition

Visc @ 40°C	cSt	● 179	---	---	---
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Contamination

Water	%	● 1.48	---	---	---
Silicon	ppm	● 9	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● 2	---	---	---



Wear Metals

Iron	ppm	● 1042	---	---	---
Copper	ppm	● 158	---	---	---
Lead	ppm	● 1	---	---	---
Tin	ppm	● 14	---	---	---
Aluminum	ppm	● 3	---	---	---
Chromium	ppm	● 9	---	---	---
Molybdenum	ppm	● 1	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	● 10	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

Calcium	ppm	● 21	---	---	---
Magnesium	ppm	● 2	---	---	---
Zinc	ppm	● 160	---	---	---
Phosphorus	ppm	● 2001	---	---	---
Barium	ppm	● 6	---	---	---
Boron	ppm	● 3	---	---	---

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 due to the presence of contaminants.

Depot: LIEBHERRNC
 Unique No: 11096831
 Signed: Sean Felton
 Report Date: 26 Jun 2024

Submitted By: SHERWOOD LUCAS

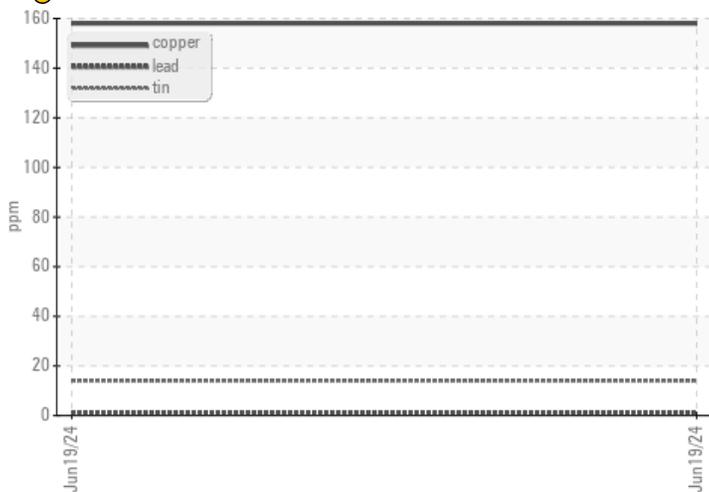


Graphs

● Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

