

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR TT&ER954C 24925 (S/N 976-24925) - Right Final Drive

Sample No: LH0293231

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0293231	---	---	---
Sample Date	01 Jul 2024	---	---	---
Machine Hours	11252	---	---	---
Oil Hours	1500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD
RALEIGH, NC

US 27603

Contact: SHERWOOD LUCAS

sherwood.lucas@liebherr.com

T:

F: (919)329-0084



Oil Condition

Visc @ 40°C	cSt	● 212	---	---	---
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Contamination

Water	%	● 0.825	---	---	---
Silicon	ppm	● 1883	---	---	---
Sodium	ppm	● 54	---	---	---
Potassium	ppm	● 133	---	---	---



Wear Metals

Iron	ppm	● 3609	---	---	---
Copper	ppm	● 677	---	---	---
Lead	ppm	● 13	---	---	---
Tin	ppm	● 63	---	---	---
Aluminum	ppm	● 718	---	---	---
Chromium	ppm	● 27	---	---	---
Molybdenum	ppm	● 4	---	---	---
Nickel	ppm	● 19	---	---	---
Titanium	ppm	● 38	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 33	---	---	---
Vanadium	ppm	● 2	---	---	---



Additives

Calcium	ppm	● 286	---	---	---
Magnesium	ppm	● 56	---	---	---
Zinc	ppm	● 188	---	---	---
Phosphorus	ppm	● 2374	---	---	---
Barium	ppm	● 3	---	---	---
Boron	ppm	● 8	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. 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 bushing wear is indicated. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: LIEBHERRNC

Unique No: 11114094

Signed: Sean Felton

Report Date: 10 Jul 2024

Submitted By: SHERWOOD LUCAS

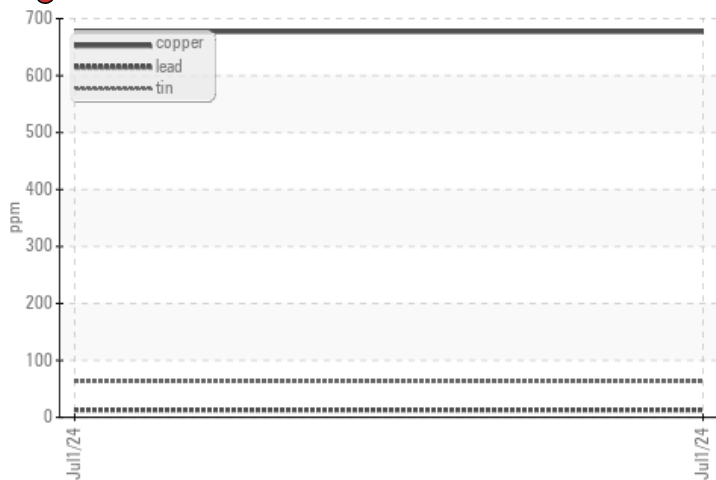


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

