

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1090-4.2 089274 - Drop Box

Sample No: LH0258658
 Oil Type: LIEBHERR GEAR HYPOID 90 EP



Sample Information

Sample Number	LH0258658	---	---	---
Sample Date	28 May 2024	---	---	---
Machine Hours	20437	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES
 4800 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
 Contact: CHRIS JONES
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 T: (757)245-5251
 F:



Oil Condition

Visc @ 40°C	cSt	● 196	---	---	---
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● <1	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● <1	---	---	---



Wear Metals

Iron	ppm	● 54	---	---	---
Copper	ppm	● 259	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	● 44	---	---	---
Aluminum	ppm	● 0	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 2	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

Calcium	ppm	● 0	---	---	---
Magnesium	ppm	0	---	---	---
Zinc	ppm	● 9	---	---	---
Phosphorus	ppm	● 1174	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Diagnosis

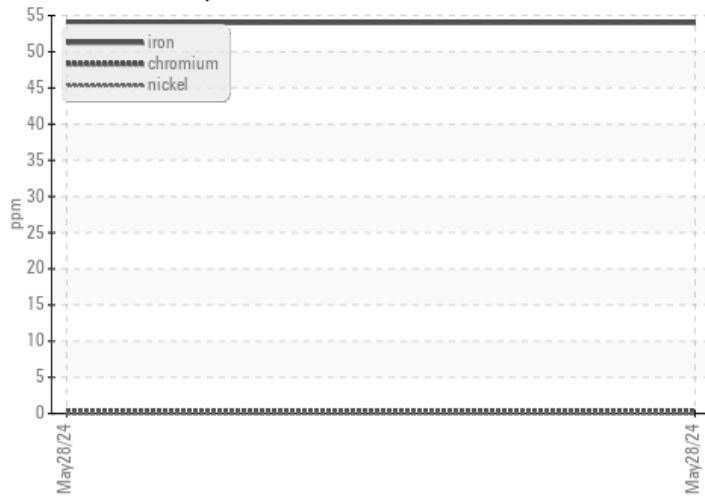
The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as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

Depot: LIENEW
 Unique No: 11062987
 Signed: Don Baldrige
 Report Date: 08 Jun 2024

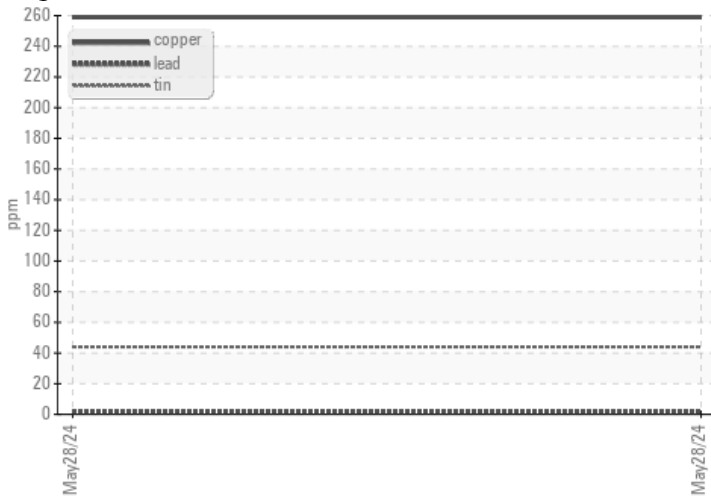


Graphs

Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

