

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1130-5.1066718 - Gearbox

Sample No: LH0259071

Oil Type: EP 90



SAMPLE INFORMATION

Sample Number	LH0259071	---	---	---
Sample Date	14 Feb 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
 Contact: TERENCE VANDERLENDE
 TERENCE.VANDERLENDE@LIEBHERR.COM
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	● 181	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 1	---	---	---
Sodium	ppm	● 0	---	---	---
Potassium	ppm	● 1	---	---	---



WEAR METALS

Iron	ppm	● 568	---	---	---
Copper	ppm	● 105	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 142	---	---	---
Aluminum	ppm	● 11	---	---	---
Chromium	ppm	● 3	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2	---	---	---
Magnesium	ppm	1	---	---	---
Zinc	ppm	0	---	---	---
Phosphorus	ppm	620	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	2	---	---	---

Diagnosis

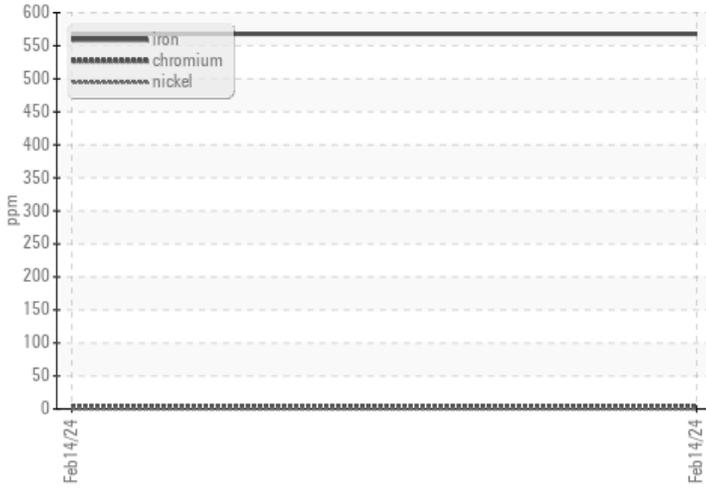
Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The tin level is severe. The iron level is severe. There is no indication of any contamination in the oil. The oil is no longer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

Depot: LIENEW
 Unique No: 10886614
 Signed: Sean Felton
 Report Date: 21 Feb 2024

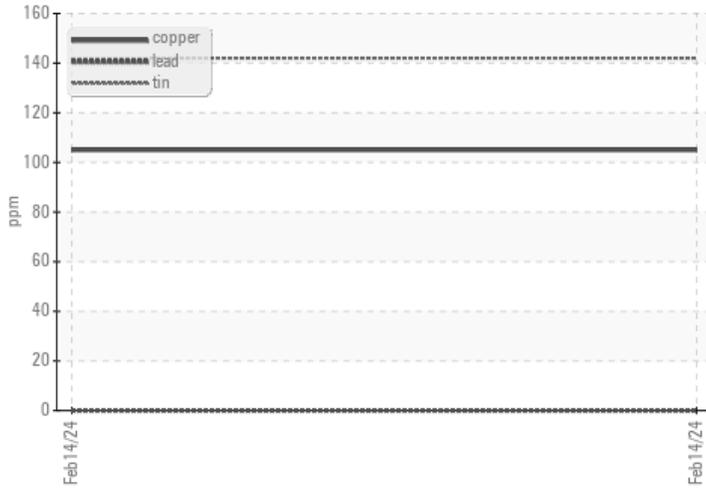


GRAPHS

● Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

