

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1120-4.1 081556 - Right Hub

Sample No: LH0259086

Oil Type: LIEBHERR GEAR HYPOID 90 EP



SAMPLE INFORMATION

Sample Number	LH0259086	LH0259083	LH0259089	---
Sample Date	23 Jan 2024	22 Jan 2024	21 Jan 2024	---
Machine Hours	0	0	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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	202	128	126	---
		●	●	●	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	68	3	4	---
Sodium	ppm	● 4	● 7	● 7	---
Potassium	ppm	● 2	● 0	● 0	---



WEAR METALS

Iron	ppm	● 316	● 72	● 115	---
Copper	ppm	6	9	● 21	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	● 14	<1	1	---
Chromium	ppm	● 3	● <1	● <1	---
Molybdenum	ppm	● 0	● <1	● <1	---
Nickel	ppm	● <1	● 0	● 0	---
Titanium	ppm	2	<1	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	● 4	● 2	● 4	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	● 125	● 97	● 110	---
Magnesium	ppm	● 70	● 602	● 615	---
Zinc	ppm	● 56	● 64	● 79	---
Phosphorus	ppm	● 1191	● 1195	● 1215	---
Barium	ppm	● <1	● 0	● 0	---
Boron	ppm	● 33	● 318	● 364	---

Diagnosis

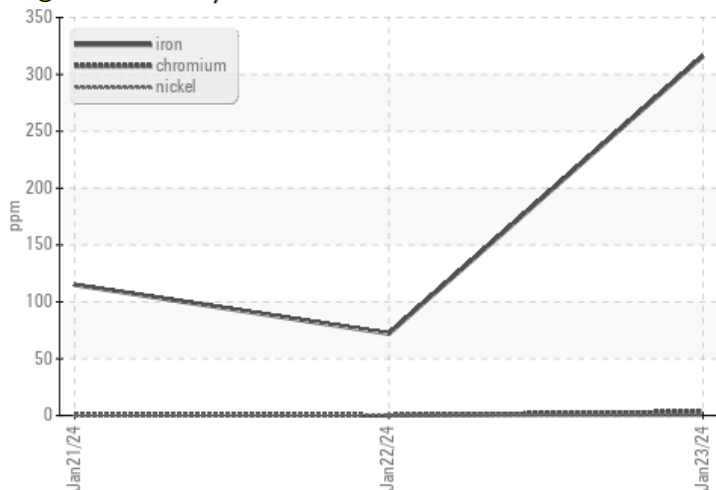
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIENEW
 Unique No: 10846810
 Signed: Sean Felton
 Report Date: 26 Jan 2024

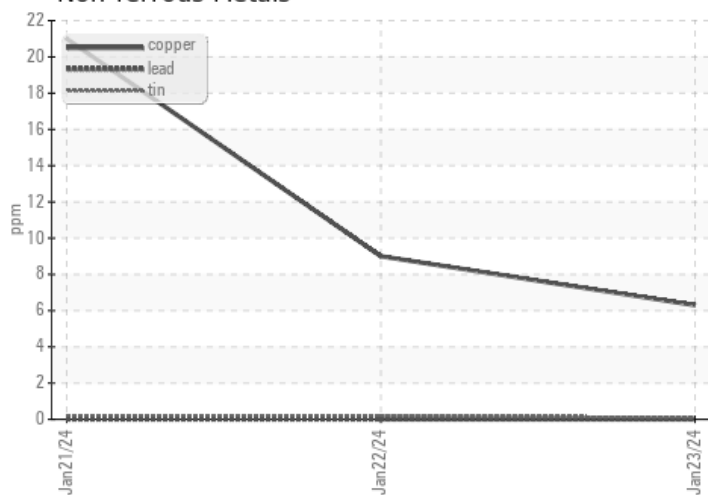


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

