

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1120-4.1 081556 - Left Hub

Sample No: LH0259084

Oil Type: LIEBHERR GEAR HYPOID 90 EP



SAMPLE INFORMATION

Sample Number	LH0259084	LH0259087	LH0259090	---
Sample Date	22 Jan 2024	21 Jan 2024	20 Jan 2024	---
Machine Hours	0	0	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	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	130	128	130	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	2	4	3	---
Sodium	ppm	7	8	7	---
Potassium	ppm	0	<1	0	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	56	128	98	---
Copper	ppm	9	20	21	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	<1	1	1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	4	4	---
Vanadium	ppm	0	0	0	---



ADDITIVES

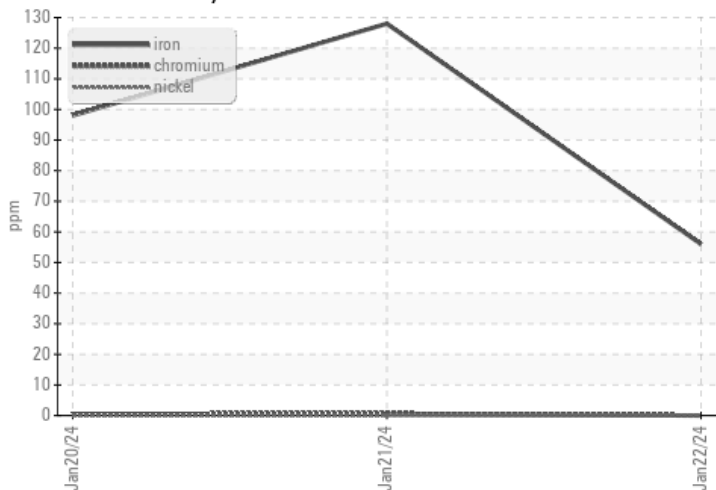
Calcium	ppm	105	105	105	---
Magnesium	ppm	592	546	574	---
Zinc	ppm	63	79	76	---
Phosphorus	ppm	1179	1206	1191	---
Barium	ppm	0	0	0	---
Boron	ppm	356	271	344	---

Depot: LIENEW
 Unique No: 10846812
 Signed: Sean Felton
 Report Date: 26 Jan 2024

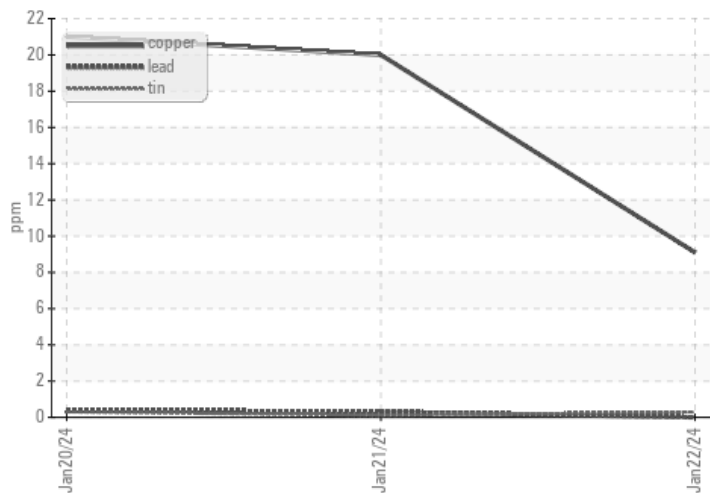


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

