

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR RAD 1100 159-0000010 - Final Drive

Sample No: LHMC129550

Oil Type: GEAR OIL ISO 320



SAMPLE INFORMATION

Sample Number	LHMC129550	---	---	---
Sample Date	25 Oct 2023	---	---	---
Machine Hours	8874	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR MINING EQUIPMENT CO
 5800 S DOUGLAS HWY
 GILLETTE, WY
 US 82718
 Contact: SCOTT BRADLEY
 scott.bradley@liebherr.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	● 290	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 9	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 3	---	---	---

Diagnosis

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



WEAR METALS

Iron	ppm	● 71	---	---	---
Copper	ppm	● 7	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

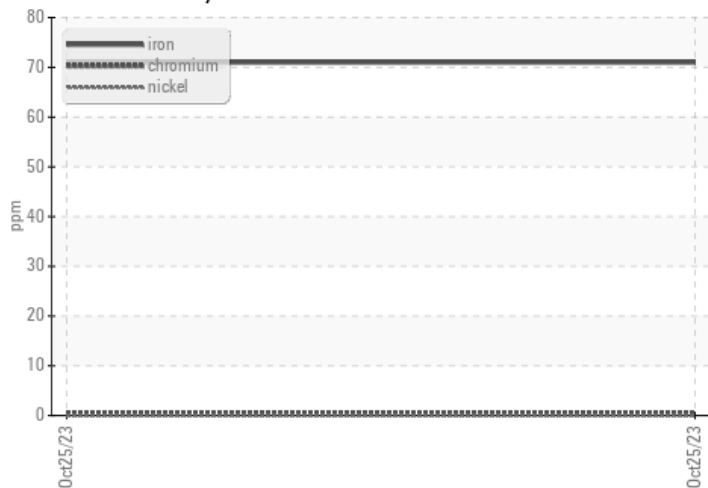
Calcium	ppm	● 116	---	---	---
Magnesium	ppm	● <1	---	---	---
Zinc	ppm	● 13	---	---	---
Phosphorus	ppm	● 362	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 37	---	---	---

Depot: LIEGIL
 Unique No: 10752665
 Signed: Sean Felton
 Report Date: 22 Nov 2023

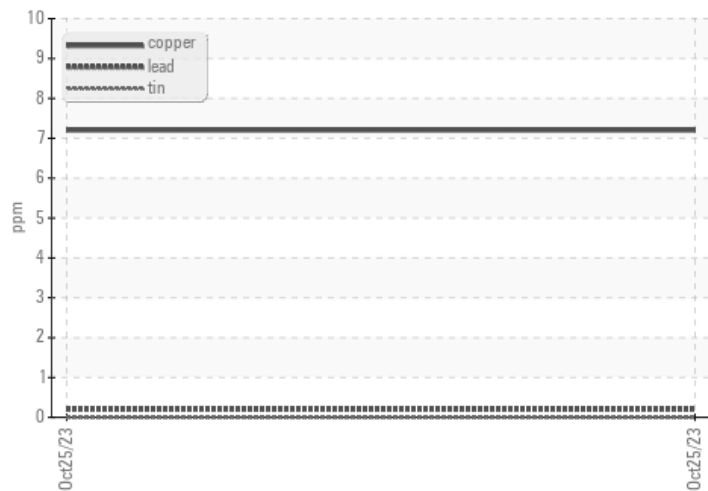


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

