

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R936LC 047283-1490 - Right Final Drive

Sample No: LH0272864

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0272864	LH0268288	LH0217252	---
Sample Date	11 Feb 2024	13 Oct 2023	21 May 2022	---
Machine Hours	3939	3494	708	---
Oil Hours	0	0	708	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	SEVERE	SEVERE	NORMAL	---

**M&F CONCRETE PRODUCTS CO**  
 4002 CATLETT RD  
 CATLETT, VA  
 US 20119  
 Contact: Service Manager



#### OIL CONDITION

Visc @ 40°C	cSt	345	336	185	---
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T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	727	728	3	---
Sodium	ppm	31	34	6	---
Potassium	ppm	40	54	2	---

#### Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.



#### WEAR METALS

Iron	ppm	1633	1516	76	---
Copper	ppm	<1	1	<1	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	179	175	<1	---
Chromium	ppm	20	18	1	---
Molybdenum	ppm	1	1	0	---
Nickel	ppm	12	9	<1	---
Titanium	ppm	15	15	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	15	14	1	---
Vanadium	ppm	<1	1	0	---



#### ADDITIVES

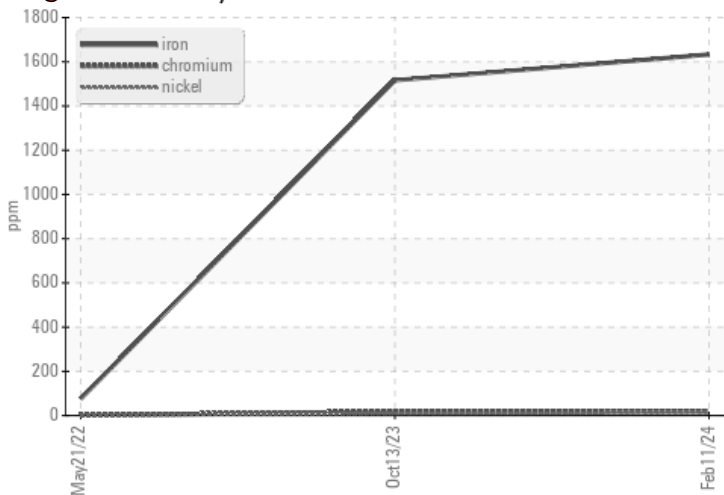
Calcium	ppm	220	202	20	---
Magnesium	ppm	47	52	<1	---
Zinc	ppm	20	27	29	---
Phosphorus	ppm	1423	1387	2307	---
Barium	ppm	6	5	10	---
Boron	ppm	3	4	8	---

Depot: MECCAT  
 Unique No: 10940056  
 Signed: Angela Borella  
 Report Date: 25 Mar 2024

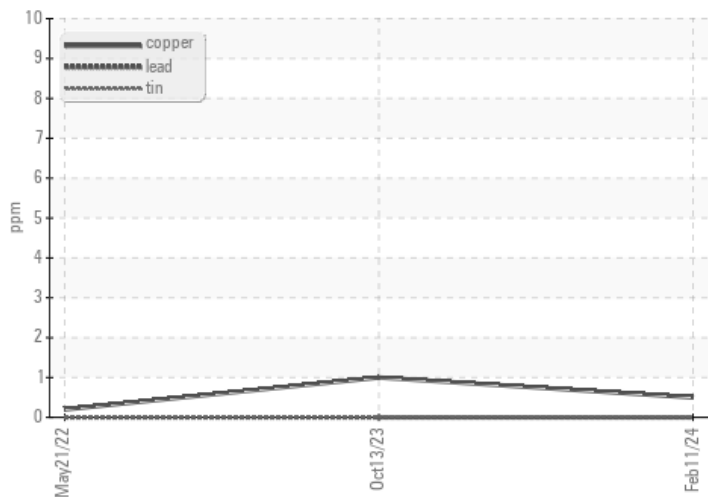


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### ● Viscosity @ 40°C

