

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0268288

Oil Type: LIEBHERR GEAR BASIC 90 LS



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



#### SAMPLE INFORMATION

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



#### OIL CONDITION

Visc @ 40°C	cSt	336	185	---	---
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#### CONTAMINATION

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



#### WEAR METALS

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



#### ADDITIVES

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

T:  
F:

#### Diagnosis

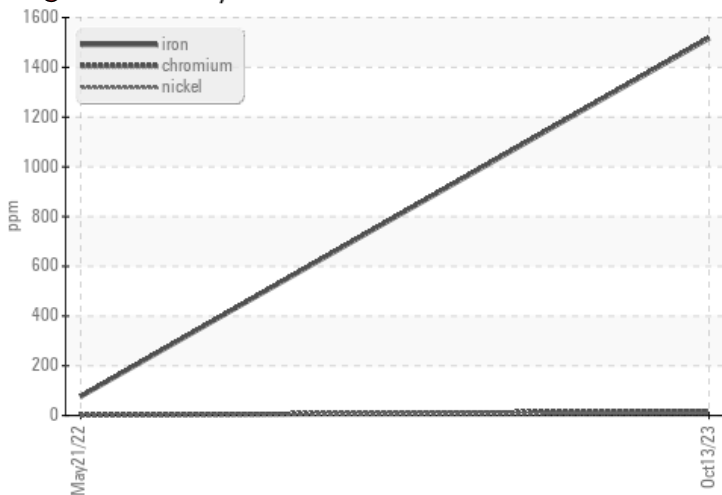
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental 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.

Depot: MECCAT  
Unique No: 10778732  
Signed: Don Baldrige  
Report Date: 11 Dec 2023

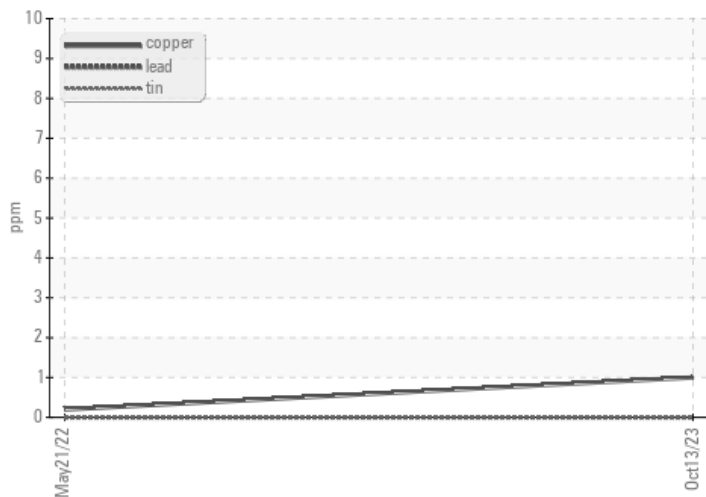


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### ● Viscosity @ 40°C

