

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R936LC 047 283-1490 - Splitter Box

Sample No: LH0258971

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0258971	LH0229642	LH0207406	LH0217251
Sample Date	13 Oct 2023	09 Dec 2022	01 Sep 2022	21 May 2022
Machine Hours	3494	1807	1216	708
Oil Hours	0	1807	0	708
Oil Changed	Not Changd	Not Changd	Not Changd	Changed
Sample Status	SEVERE	ATTENTION	SEVERE	ABNORMAL

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



#### OIL CONDITION

Visc @ 40°C	cSt	363	169.5	293	196
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T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	0.363
Silicon	ppm	9	10	22	2
Sodium	ppm	6	2	0	<1
Potassium	ppm	12	9	0	11

#### Diagnosis

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. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



#### WEAR METALS

Iron	ppm	2281	125	1928	144
Copper	ppm	1880	6	1001	3
Lead	ppm	20	0	0	0
Tin	ppm	13	0	28	<1
Aluminum	ppm	<1	5	7	25
Chromium	ppm	29	1	22	<1
Molybdenum	ppm	2	0	1	0
Nickel	ppm	5	2	<1	2
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	20	2	14	4
Vanadium	ppm	<1	0	0	0



#### ADDITIVES

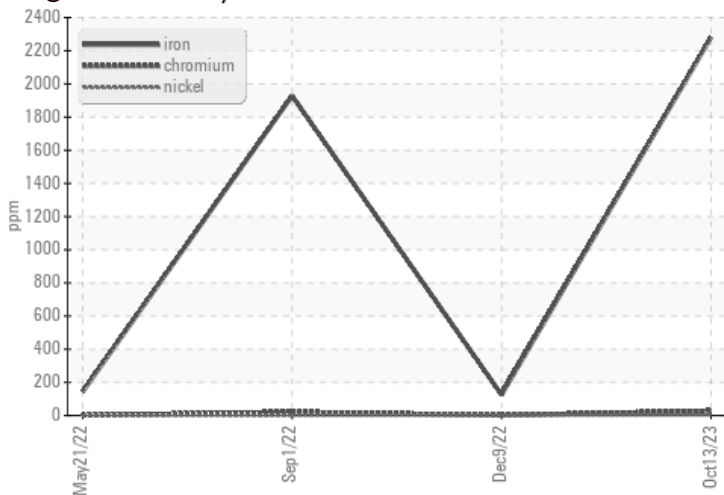
Calcium	ppm	14	194	0	24
Magnesium	ppm	<1	5	0	2
Zinc	ppm	97	161	0	215
Phosphorus	ppm	923	1622	891	1457
Barium	ppm	0	<1	0	2
Boron	ppm	2	1	4	2

Depot: MECCAT  
 Unique No: 10778736  
 Signed: Don Baldrige  
 Report Date: 11 Dec 2023

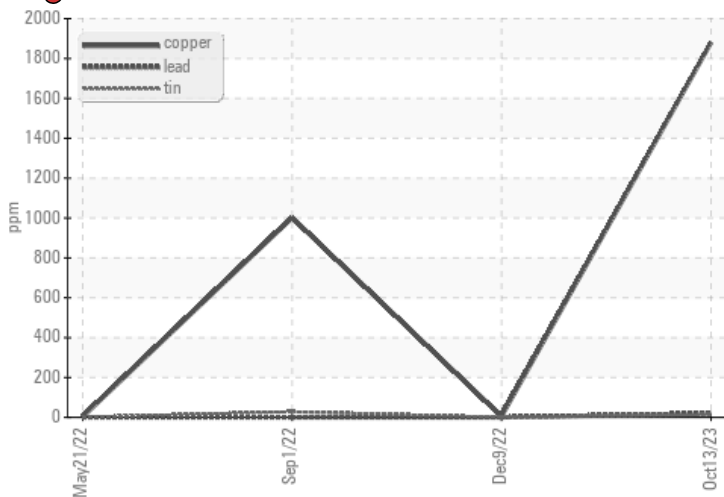


### GRAPHS

#### ● Ferrous Alloys



#### ● Non-ferrous Metals



#### ● Viscosity @ 40°C

