

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R938 050886-1650 - Right Final Drive

Sample No: LH0258265

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0258265	LH0258966	LH0254074	LH0243981
Sample Date	08 Oct 2023	09 Aug 2023	02 Apr 2023	31 Jan 2023
Machine Hours	431	1993	1018	575
Oil Hours	0	1993	0	575
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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



#### OIL CONDITION

Visc @ 40°C	cSt	206	193	196	196

T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	8	25	22
Sodium	ppm	6	3	5	6
Potassium	ppm	18	1	6	6

#### 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	47	88	145	114
Copper	ppm	0	0	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	1	6	7
Chromium	ppm	<1	2	3	2
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	2	3
Vanadium	ppm	<1	0	0	0



#### ADDITIVES

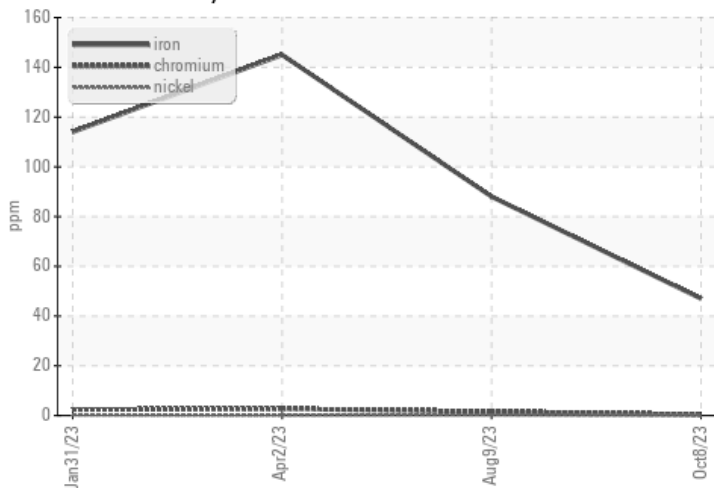
Calcium	ppm	16	26	44	56
Magnesium	ppm	0	4	3	6
Zinc	ppm	25	37	29	42
Phosphorus	ppm	1219	2284	1338	1275
Barium	ppm	11	4	10	9
Boron	ppm	<1	1	2	4

Depot: MECCAT  
 Unique No: 10778734  
 Signed: Don Baldrige  
 Report Date: 11 Dec 2023

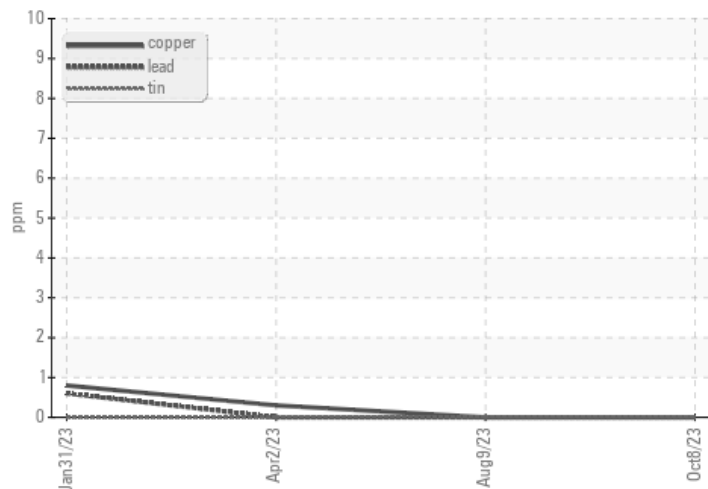


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

