

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A904C071146-1071 - Rear Differential

Sample No: LH0259108

Oil Type: LIEBHERR GEAR BASIC 90 LS



**BAY DISPOSAL**  
2224 SPRINGFIELD AVE  
NORFOLK, VA  
US 23523  
Contact: SERVICE MANAGER



#### SAMPLE INFORMATION

Sample Number	<b>LH0259108</b>	LH0254211	LHMC100059	LHMC95685
Sample Date	<b>12 Jun 2023</b>	16 Mar 2023	11 Jan 2016	29 Sep 2015
Machine Hours	<b>12434</b>	12177	1053	517
Oil Hours	<b>2000</b>	1000	1053	517
Oil Changed	<b>Not Changd</b>	Not Changd	Changed	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>111</b>	111	56.1	55.8
-------------	-----	------------	-----	------	------

T:  
F:



#### CONTAMINATION

Silicon	ppm	<b>9</b>	9	6	7
Sodium	ppm	<b>4</b>	3	19	21
Potassium	ppm	<b>0</b>	0	3	8

#### Diagnosis

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



#### WEAR METALS

Iron	ppm	<b>5</b>	6	6	8
Copper	ppm	<b>4</b>	3	11	10
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	<1	1	1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	<1	0	0
Nickel	ppm	<b>0</b>	0	2	3
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	2	2
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

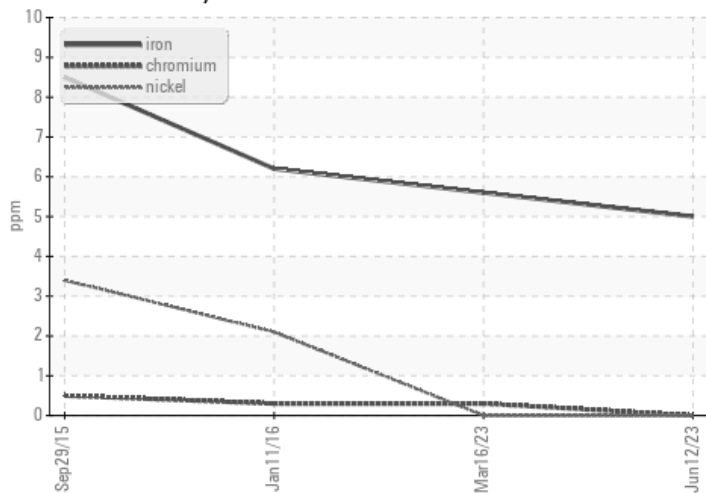
Calcium	ppm	<b>3818</b>	3570	3068	3576
Magnesium	ppm	<b>11</b>	11	13	9
Zinc	ppm	<b>1498</b>	1454	1172	1430
Phosphorus	ppm	<b>1212</b>	1154	1017	1111
Barium	ppm	<b>0</b>	0	<1	<1
Boron	ppm	<b>149</b>	113	84	107

**Depot:** BAYNOR  
**Unique No:** 10548836  
**Signed:** Don Baldrige  
**Report Date:** 11 Jul 2023

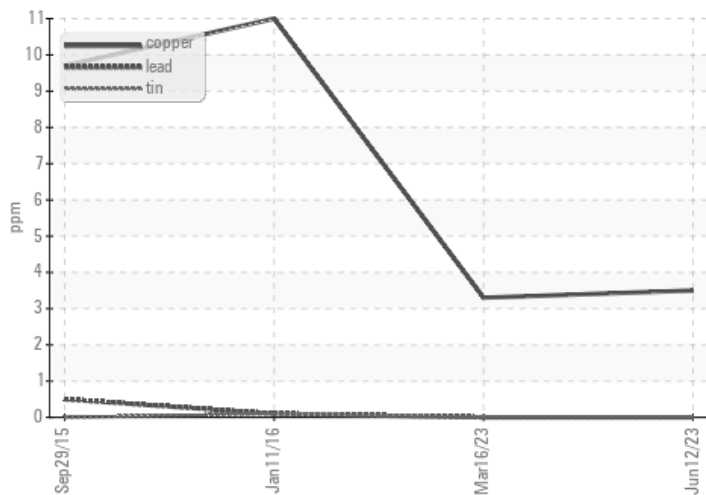


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

