

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A904C071146-1071 - Splitter Box

Sample No: LH0259111

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

|               |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0259111   | LH0254212   | LHMC107129  | LHMC100087  |
| Sample Date   | 12 Jun 2023 | 16 Mar 2023 | 18 Apr 2016 | 18 Apr 2016 |
| Machine Hours | 12434       | 12177       | 2546        | 1547        |
| Oil Hours     | 2000        | 1000        | 500         | 500         |
| Oil Changed   | Changed     | Not Changd  | Not Changd  | Not Changd  |
| Sample Status | ABNORMAL    | NORMAL      | NORMAL      | NORMAL      |

#### BAY DISPOSAL

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



#### OIL CONDITION

|             |     |     |     |       |       |
|-------------|-----|-----|-----|-------|-------|
| Visc @ 40°C | cSt | 173 | 170 | 185.6 | 185.0 |
|-------------|-----|-----|-----|-------|-------|

T:  
F:



#### CONTAMINATION

|           |     |    |    |   |   |
|-----------|-----|----|----|---|---|
| Silicon   | ppm | <1 | 1  | 4 | 4 |
| Sodium    | ppm | 1  | 0  | 5 | 5 |
| Potassium | ppm | 0  | <1 | 2 | 0 |

#### Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other 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 | 183 | 87 | 33 | 32 |
| Copper     | ppm | <1  | <1 | <1 | <1 |
| Lead       | ppm | 0   | 0  | 1  | 0  |
| Tin        | ppm | 0   | 0  | 0  | 0  |
| Aluminum   | ppm | <1  | <1 | 1  | 1  |
| Chromium   | ppm | 1   | 1  | <1 | <1 |
| Molybdenum | ppm | 0   | <1 | 0  | 0  |
| Nickel     | ppm | 0   | 0  | <1 | 0  |
| Titanium   | ppm | 0   | 0  | 0  | <1 |
| Silver     | ppm | 0   | 0  | 0  | 0  |
| Manganese  | ppm | <1  | <1 | 1  | 1  |
| Vanadium   | ppm | 0   | 0  | <1 | 0  |



#### ADDITIVES

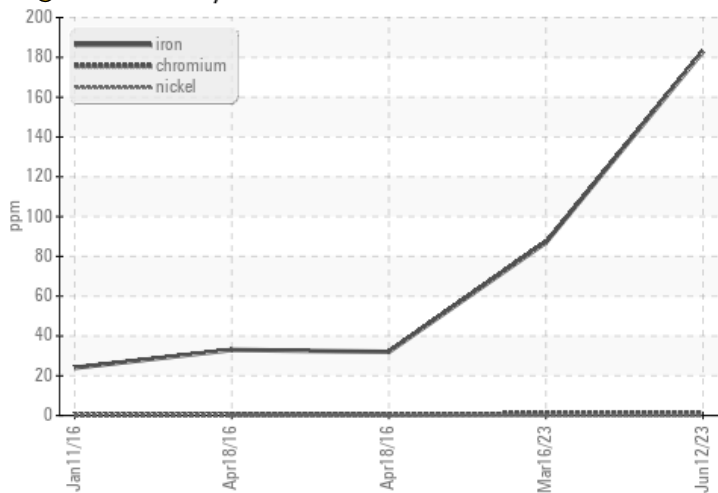
|            |     |      |      |      |      |
|------------|-----|------|------|------|------|
| Calcium    | ppm | 35   | 22   | 240  | 238  |
| Magnesium  | ppm | 2    | 2    | 2    | 2    |
| Zinc       | ppm | 71   | 72   | 108  | 109  |
| Phosphorus | ppm | 1289 | 1288 | 1520 | 1517 |
| Barium     | ppm | 0    | 0    | <1   | <1   |
| Boron      | ppm | 1    | 3    | 9    | 13   |

Depot: BAYNOR  
Unique No: 10548850  
Signed: Don Baldrige  
Report Date: 11 Jul 2023

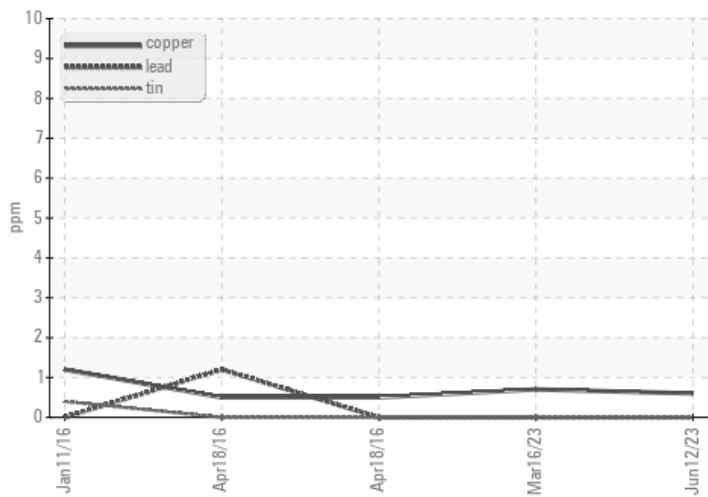


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

