

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LTM1120-4.1 081556 - 4 Differential

Sample No: LH0259091  
 Oil Type: LIEBHERR GEAR HYPOID 90 EP



#### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0259091   | --- | --- | --- |
| Sample Date   | 22 Jan 2024 | --- | --- | --- |
| Machine Hours | 0           | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES  
 4100 CHESTNUT AVENUE  
 NEWPORT NEWS, VA  
 US 23607  
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 T:  
 F:



#### OIL CONDITION

|             |     |       |     |     |     |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 151 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



#### CONTAMINATION

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Water     | %   | NEG | --- | --- | --- |
| Silicon   | ppm | ● 3 | --- | --- | --- |
| Sodium    | ppm | ● 3 | --- | --- | --- |
| Potassium | ppm | ● 0 | --- | --- | --- |

#### 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 | ● 10 | --- | --- | --- |
| Copper     | ppm | ● 2  | --- | --- | --- |
| Lead       | ppm | ● 0  | --- | --- | --- |
| Tin        | ppm | ● <1 | --- | --- | --- |
| Aluminum   | ppm | ● <1 | --- | --- | --- |
| Chromium   | ppm | ● 0  | --- | --- | --- |
| Molybdenum | ppm | ● 0  | --- | --- | --- |
| Nickel     | ppm | ● 0  | --- | --- | --- |
| Titanium   | ppm | 0    | --- | --- | --- |
| Silver     | ppm | 0    | --- | --- | --- |
| Manganese  | ppm | ● <1 | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |



#### ADDITIVES

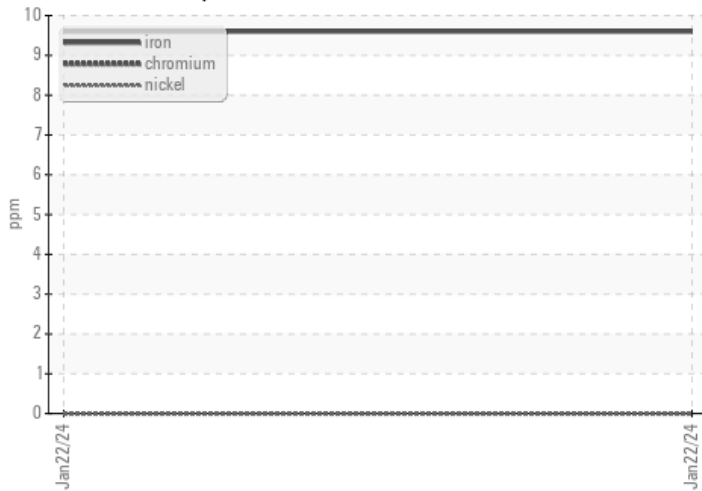
|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ● 49   | --- | --- | --- |
| Magnesium  | ppm | ● 735  | --- | --- | --- |
| Zinc       | ppm | ● 20   | --- | --- | --- |
| Phosphorus | ppm | ● 1280 | --- | --- | --- |
| Barium     | ppm | ● 0    | --- | --- | --- |
| Boron      | ppm | ● 467  | --- | --- | --- |

Depot: LIENEW  
 Unique No: 10846805  
 Signed: Sean Felton  
 Report Date: 26 Jan 2024

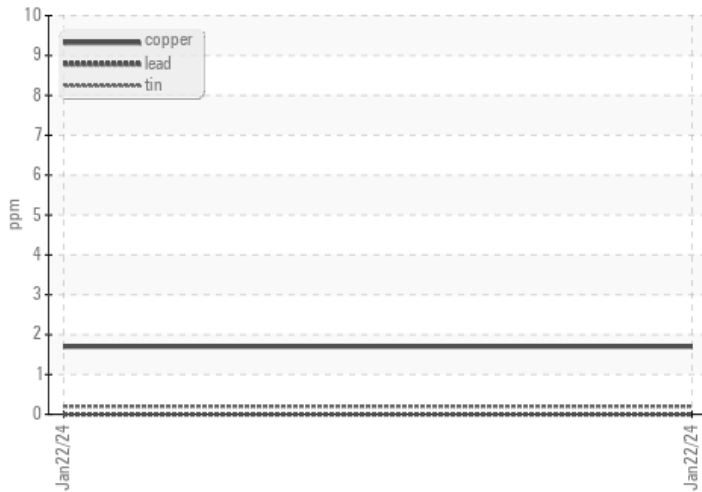


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

