

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 069044-1761 - Front Right Wheel Hub

Sample No: LH0267642

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0267642   | --- | --- | --- |
| Sample Date   | 22 Nov 2023 | --- | --- | --- |
| Machine Hours | 1985        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

**MIDDLE RIVER MARINE**  
 1771 SOUTH TORRENCE AVE  
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 US 60617  
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 T:  
 F:



#### OIL CONDITION

|             |     |       |     |     |     |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 140 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



#### CONTAMINATION

|           |     |      |     |     |     |
|-----------|-----|------|-----|-----|-----|
| Water     | %   | NEG  | --- | --- | --- |
| Silicon   | ppm | ● 15 | --- | --- | --- |
| Sodium    | ppm | ● 2  | --- | --- | --- |
| Potassium | ppm | ● <1 | --- | --- | --- |

#### Diagnosis

The oil change at the time of sampling has been noted. 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 | ● 174 | --- | --- | --- |
| Copper     | ppm | ● 70  | --- | --- | --- |
| Lead       | ppm | ● 0   | --- | --- | --- |
| Tin        | ppm | ● 5   | --- | --- | --- |
| Aluminum   | ppm | ● 1   | --- | --- | --- |
| Chromium   | ppm | ● 1   | --- | --- | --- |
| Molybdenum | ppm | ● 0   | --- | --- | --- |
| Nickel     | ppm | ● <1  | --- | --- | --- |
| Titanium   | ppm | 0     | --- | --- | --- |
| Silver     | ppm | 0     | --- | --- | --- |
| Manganese  | ppm | ● 20  | --- | --- | --- |
| Vanadium   | ppm | 0     | --- | --- | --- |



#### ADDITIVES

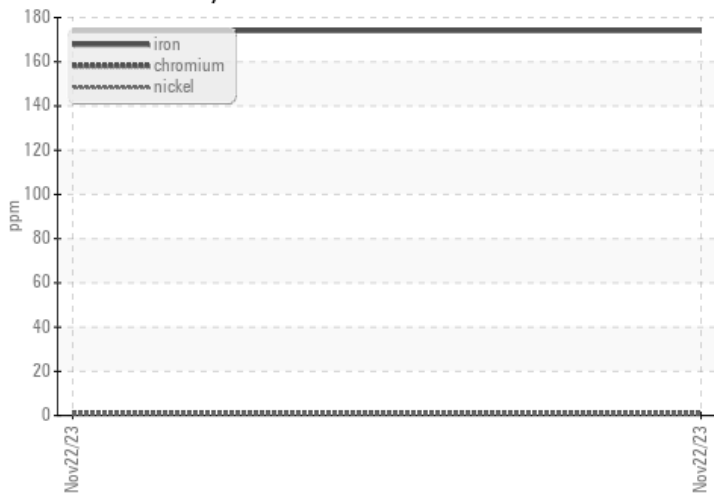
|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ● 16   | --- | --- | --- |
| Magnesium  | ppm | ● 3    | --- | --- | --- |
| Zinc       | ppm | ● 25   | --- | --- | --- |
| Phosphorus | ppm | ● 1124 | --- | --- | --- |
| Barium     | ppm | ● 0    | --- | --- | --- |
| Boron      | ppm | ● 7    | --- | --- | --- |

**Depot:** MIDCHIL  
**Unique No:** 10831882  
**Signed:** Don Baldrige  
**Report Date:** 16 Jan 2024

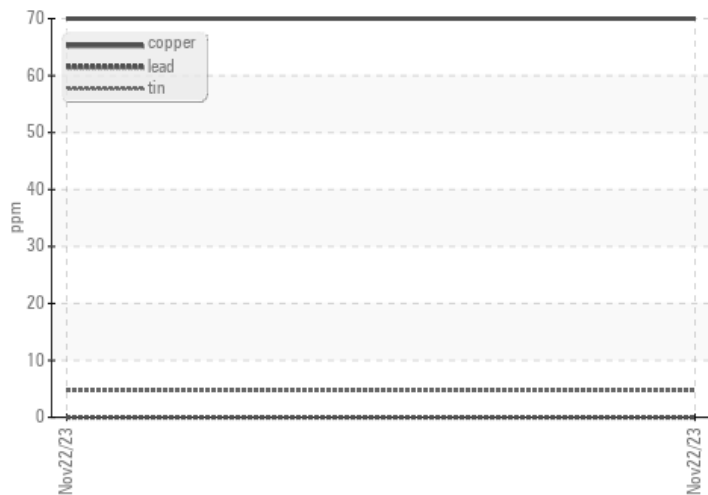


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

