

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 052439-1334 - Splitter Box

Sample No: LH0268348

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

| Sample Number | LH0268348   | LH0258500   | LH0217460   | LH0217552   |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date   | 11 Mar 2024 | 09 Oct 2023 | 29 Aug 2022 | 13 Jun 2022 |
| Machine Hours | 12062       | 11055       | 7135        | 6294        |
| Oil Hours     | 1007        | 1000        | 1000        | 2185        |
| Oil Changed   | Changed     | Changed     | Changed     | Changed     |
| Sample Status | ABNORMAL    | NORMAL      | NORMAL      | NORMAL      |

**BENEVENTO SAND & STONE**  
 900 SALEM STREET PO Box 454  
 WILMINGTON, MA  
 US 01887  
 Contact: Service Manager



#### OIL CONDITION

| Visc @ 40°C | cSt | 189 | 177 | 148 | 103 |
|-------------|-----|-----|-----|-----|-----|
|             |     |     |     |     |     |

T:  
 F: (978)658-8928



#### CONTAMINATION

| Water     | %   | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon   | ppm | 50  | 7   | 25  | 2   |
| Sodium    | ppm | 0   | 2   | 0   | 0   |
| Potassium | ppm | 2   | <1  | 0   | 1   |

#### Diagnosis

We advise that you check all areas where dirt can enter the system. 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

|            |     |     |     |    |    |
|------------|-----|-----|-----|----|----|
| Iron       | ppm | 203 | 204 | 73 | 44 |
| Copper     | ppm | 2   | 1   | <1 | 1  |
| Lead       | ppm | <1  | 0   | 0  | 2  |
| Tin        | ppm | 0   | <1  | 0  | <1 |
| Aluminum   | ppm | 14  | 1   | 6  | 1  |
| Chromium   | ppm | 3   | 3   | 1  | <1 |
| Molybdenum | ppm | 0   | <1  | 0  | 0  |
| Nickel     | ppm | <1  | <1  | 0  | 0  |
| Titanium   | ppm | 1   | <1  | <1 | 0  |
| Silver     | ppm | 0   | 0   | 0  | 0  |
| Manganese  | ppm | 1   | 1   | <1 | <1 |
| Vanadium   | ppm | 0   | 0   | 0  | 0  |



#### ADDITIVES

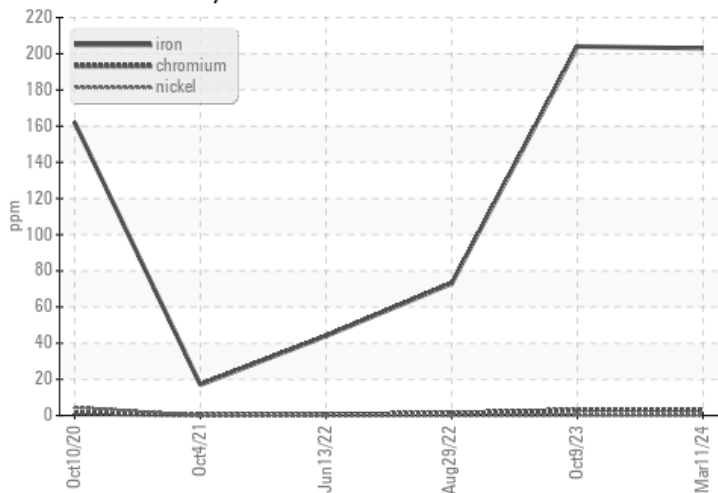
|            |     |      |      |     |      |
|------------|-----|------|------|-----|------|
| Calcium    | ppm | 55   | 26   | 40  | 167  |
| Magnesium  | ppm | 6    | 4    | 1   | 3    |
| Zinc       | ppm | 103  | 133  | 65  | 213  |
| Phosphorus | ppm | 2153 | 2023 | 799 | 1255 |
| Barium     | ppm | 0    | 19   | 0   | 0    |
| Boron      | ppm | 3    | 6    | 4   | 2    |

Depot: BENWILLH  
 Unique No: 10940927  
 Signed: Don Baldrige  
 Report Date: 26 Mar 2024

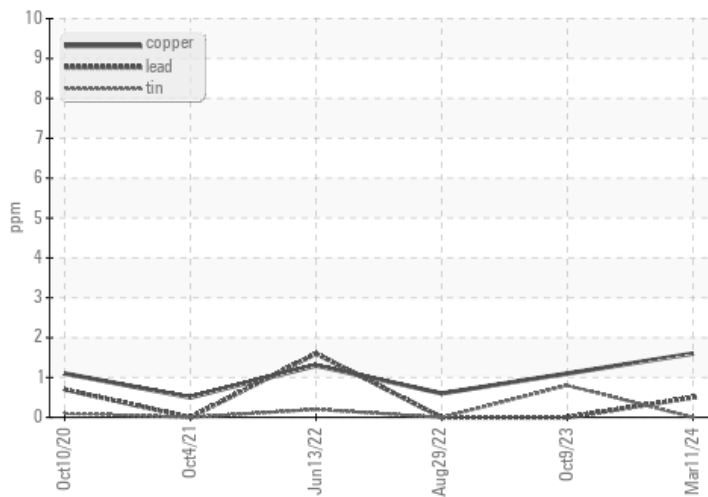


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

