

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L566 1484-60217 - Diesel Engine

Sample No: LH0263746

Oil Type: {unknown}



#### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH0263746   | LH0263724   | --- | --- |
| Sample Date   | 11 Jan 2024 | 18 Apr 2023 | --- | --- |
| Machine Hours | 5070        | 3000        | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | N/A         | N/A         | --- | --- |
| Sample Status | NORMAL      | ABNORMAL    | --- | --- |

**MR BULTS INC**  
 2627 E 139TH ST  
 BURNHAM, IL  
 US 60633  
 Contact: SERVICE MANAGER



#### OIL CONDITION

|                  |          |      |      |     |     |
|------------------|----------|------|------|-----|-----|
| Visc @ 100°C     | cSt      | 11.5 | 11.7 | --- | --- |
| Base Number (BN) | mg KOH/g | 15.5 | 14.1 | --- | --- |
| Oxidation (PA)   | %        | 45   | 48   | --- | --- |

T: (708)868-0059  
 F:

#### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



#### CONTAMINATION

|                |     |      |     |     |     |
|----------------|-----|------|-----|-----|-----|
| Water          | %   | NEG  | NEG | --- | --- |
| Soot %         | %   | 0.1  | 0.1 | --- | --- |
| Nitration (PA) | %   | 96   | 100 | --- | --- |
| Sulfation (PA) | %   | 42   | 45  | --- | --- |
| Glycol         | %   | NEG  | NEG | --- | --- |
| Fuel           | %   | <1.0 | 2.1 | --- | --- |
| Silicon        | ppm | 11   | 15  | --- | --- |
| Sodium         | ppm | 1    | 4   | --- | --- |
| Potassium      | ppm | 0    | 1   | --- | --- |



#### WEAR METALS

|            |     |    |    |     |     |
|------------|-----|----|----|-----|-----|
| Iron       | ppm | 2  | 8  | --- | --- |
| Copper     | ppm | 1  | 2  | --- | --- |
| Lead       | ppm | 1  | <1 | --- | --- |
| Tin        | ppm | 0  | <1 | --- | --- |
| Aluminum   | ppm | 3  | 2  | --- | --- |
| Chromium   | ppm | <1 | <1 | --- | --- |
| Molybdenum | ppm | 0  | 5  | --- | --- |
| Nickel     | ppm | 1  | 0  | --- | --- |
| Titanium   | ppm | <1 | <1 | --- | --- |
| Silver     | ppm | <1 | 0  | --- | --- |
| Manganese  | ppm | <1 | <1 | --- | --- |
| Vanadium   | ppm | <1 | <1 | --- | --- |



#### ADDITIVES

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Calcium    | ppm | 4138 | 4252 | --- | --- |
| Magnesium  | ppm | 35   | 89   | --- | --- |
| Zinc       | ppm | 1253 | 1208 | --- | --- |
| Phosphorus | ppm | 1029 | 1031 | --- | --- |
| Barium     | ppm | 0    | 0    | --- | --- |
| Boron      | ppm | 239  | 259  | --- | --- |

Depot: MRBBURLH  
 Unique No: 10830509  
 Signed: Jonathan Hester  
 Report Date: 16 Jan 2024



### GRAPHS

