

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 150399-1253 - Diesel Engine

Sample No: LH0257932  
 Oil Type: NOT GIVEN



**ROAD RUNNER RECYCLING**  
 15135 BEELMAN CEMETERY RD  
 BASTROP, LA  
 US 71220  
 Contact: Service Manager

T: (318)281-2224  
 F:



#### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0257932   | --- | --- | --- |
| Sample Date   | 14 Nov 2023 | --- | --- | --- |
| Machine Hours | 0           | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |



#### OIL CONDITION

|                  |          |      |     |     |     |
|------------------|----------|------|-----|-----|-----|
| Visc @ 100°C     | cSt      | 11.8 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | 4.7  | --- | --- | --- |
| Oxidation (PA)   | %        | 200  | --- | --- | --- |



#### CONTAMINATION

|                |     |     |     |     |     |
|----------------|-----|-----|-----|-----|-----|
| Water          | %   | NEG | --- | --- | --- |
| Soot %         | %   | 0.1 | --- | --- | --- |
| Nitration (PA) | %   | 97  | --- | --- | --- |
| Sulfation (PA) | %   | 108 | --- | --- | --- |
| Glycol         | %   | NEG | --- | --- | --- |
| Fuel           | %   | 1.0 | --- | --- | --- |
| Silicon        | ppm | 7   | --- | --- | --- |
| Sodium         | ppm | 3   | --- | --- | --- |
| Potassium      | ppm | 3   | --- | --- | --- |



#### WEAR METALS

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Iron       | ppm | 7   | --- | --- | --- |
| Copper     | ppm | 227 | --- | --- | --- |
| Lead       | ppm | 2   | --- | --- | --- |
| Tin        | ppm | 2   | --- | --- | --- |
| Aluminum   | ppm | 4   | --- | --- | --- |
| Chromium   | ppm | 1   | --- | --- | --- |
| Molybdenum | ppm | 40  | --- | --- | --- |
| Nickel     | ppm | 0   | --- | --- | --- |
| Titanium   | ppm | 0   | --- | --- | --- |
| Silver     | ppm | 0   | --- | --- | --- |
| Manganese  | ppm | 1   | --- | --- | --- |
| Vanadium   | ppm | 0   | --- | --- | --- |



#### ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 1247 | --- | --- | --- |
| Magnesium  | ppm | 835  | --- | --- | --- |
| Zinc       | ppm | 837  | --- | --- | --- |
| Phosphorus | ppm | 686  | --- | --- | --- |
| Barium     | ppm | 29   | --- | --- | --- |
| Boron      | ppm | 87   | --- | --- | --- |

#### Diagnosis

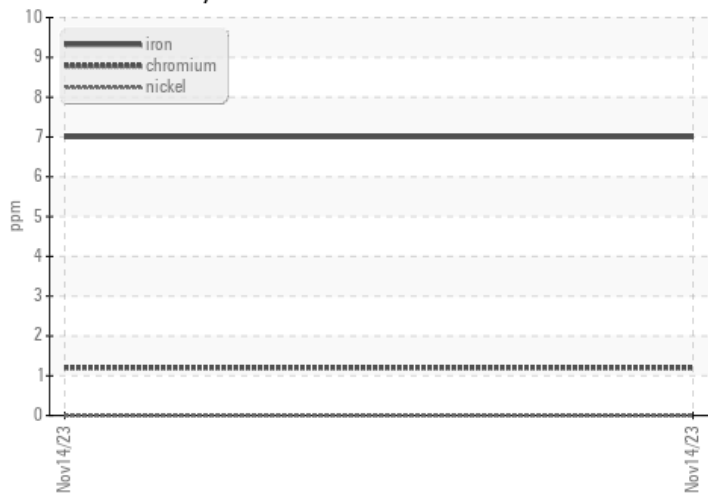
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. Fuel content negligible. 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 acceptable for the time in service.

Depot: ROABAS  
 Unique No: 10742718  
 Signed: Sean Felton  
 Report Date: 20 Nov 2023

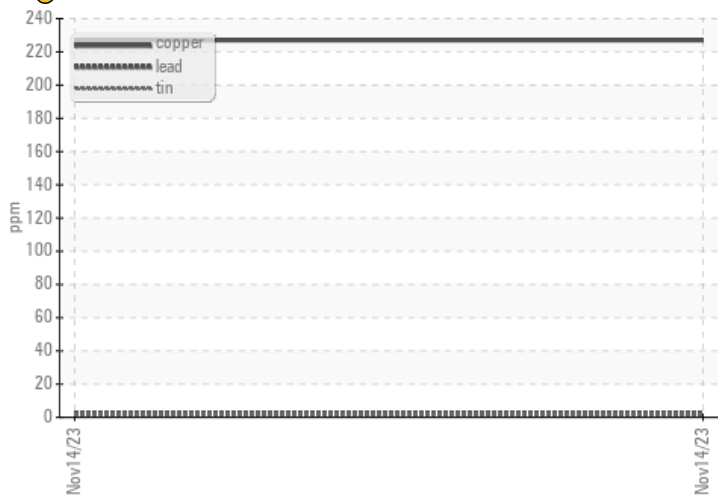


### GRAPHS

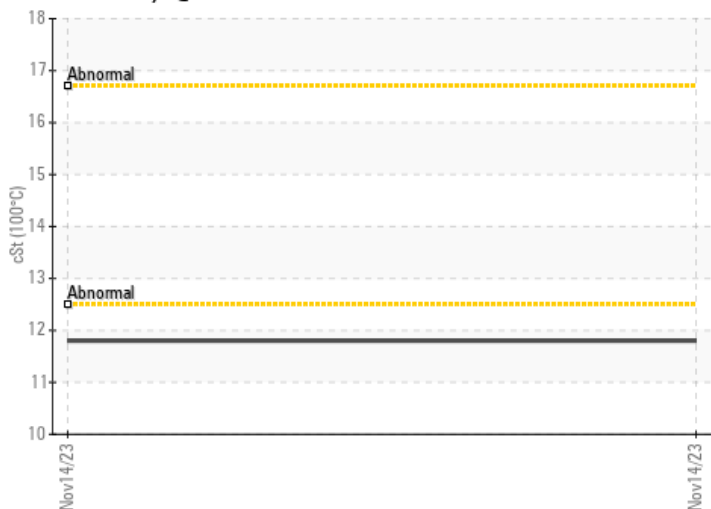
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

