

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 056328-1783 - Diesel Engine

Sample No: LH0252390

Oil Type: DIESEL ENGINE OIL SAE 40



#### Information sur l'échantillon

|                      |             |             |     |     |
|----------------------|-------------|-------------|-----|-----|
| Numéro d'échant.     | LH0252390   | LH0252383   | --- | --- |
| Date d'échant.       | 04 Jun 2024 | 11 Sep 2023 | --- | --- |
| Heures de la Machine | 2000        | 1314        | --- | --- |
| Heures de l'huile    | 0           | 0           | --- | --- |
| Huile changée        | N/A         | N/A         | --- | --- |
| Statut de l'échant.  | NORMAL      | NORMAL      | --- | --- |

#### American Iron and Metal

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#### État d'huile

|                |     |      |      |     |     |
|----------------|-----|------|------|-----|-----|
| Visc 100°C     | cSt | 12.9 | 12.7 | --- | --- |
| Oxydation (PA) | %   | 59   | 83   | --- | --- |



#### Contamination

|                  |     |      |      |     |     |
|------------------|-----|------|------|-----|-----|
| Eau              | %   | NEG  | NEG  | --- | --- |
| % de suie        | %   | 0    | 0    | --- | --- |
| Nitration (PA)   | %   | 74   | 80   | --- | --- |
| Sulfatation (PA) | %   | 54   | 63   | --- | --- |
| Glycol           | %   | NEG  | NEG  | --- | --- |
| Essence          | %   | <1.0 | <1.0 | --- | --- |
| Silicium         | ppm | 3    | 13   | --- | --- |
| Sodium           | ppm | 2    | 4    | --- | --- |
| Potassium        | ppm | 2    | 12   | --- | --- |

#### Diagnostic

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.



#### Métaux d'usure

|           |     |    |    |     |     |
|-----------|-----|----|----|-----|-----|
| Fer       | ppm | 4  | 8  | --- | --- |
| Cuivre    | ppm | 13 | 57 | --- | --- |
| Plomb     | ppm | 0  | 3  | --- | --- |
| Étain     | ppm | 0  | <1 | --- | --- |
| Aluminium | ppm | 2  | 5  | --- | --- |
| Chrome    | ppm | 0  | <1 | --- | --- |
| Molybdène | ppm | 91 | 86 | --- | --- |
| Nickel    | ppm | 0  | 0  | --- | --- |
| Titane    | ppm | 0  | 0  | --- | --- |
| Argent    | ppm | 0  | <1 | --- | --- |
| Manganèse | ppm | 0  | <1 | --- | --- |
| Vanadium  | ppm | 0  | 0  | --- | --- |



#### Additifs

|           |     |      |      |     |     |
|-----------|-----|------|------|-----|-----|
| Calcium   | ppm | 2186 | 2117 | --- | --- |
| Magnésium | ppm | 74   | 160  | --- | --- |
| Zinc      | ppm | 1122 | 1086 | --- | --- |
| Phosphore | ppm | 999  | 1001 | --- | --- |
| Baryum    | ppm | <1   | 3    | --- | --- |
| Bore      | ppm | 40   | 24   | --- | --- |

Depot: LACMON  
Unique No: 5788920  
Signed: Wes Davis  
Report Date: 05 Jun 2024



### Graphs

