

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(342783)] LIEBHERR LH50M 128861-1216 - Diesel Engine

Sample No: LH0195939

Oil Type: PETRO CANADA DURON UHP 5W40



#### SAMPLE INFORMATION

| Sample Number | LH0195939   | LH0228116   | LH0234335   | LH0199443   |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date   | 01 Aug 2023 | 17 May 2023 | 15 Feb 2023 | 20 Nov 2022 |
| Machine Hours | 5260        | 9551        | 8107        | 600         |
| Oil Hours     | 0           | 0           | 0           | 0           |
| Oil Changed   | Changed     | Changed     | Changed     | N/A         |
| Sample Status | NORMAL      | NORMAL      | NORMAL      | NORMAL      |

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#### OIL CONDITION

| Visc @ 100°C   | cSt | 13.1 | 13.1 | 13.7 | 13.2 |
|----------------|-----|------|------|------|------|
| Oxidation (PA) | %   | 92   | 105  | 93   | 94   |



#### CONTAMINATION

| Soot %         | %   | 0    | 0    | 0    | 0    |
|----------------|-----|------|------|------|------|
| Nitration (PA) | %   | 92   | 93   | 87   | 88   |
| Sulfation (PA) | %   | 65   | 66   | 66   | 64   |
| Glycol         | %   | NEG  | NEG  | NEG  | NEG  |
| Fuel           | %   | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon        | ppm | 8    | 6    | 6    | 7    |
| Sodium         | ppm | 5    | 5    | 5    | 5    |
| Potassium      | ppm | <1   | 0    | 0    | 0    |



#### WEAR METALS

|            |     |    |    |    |    |
|------------|-----|----|----|----|----|
| Iron       | ppm | 6  | 7  | 4  | 4  |
| Copper     | ppm | 4  | 3  | 1  | 1  |
| Lead       | ppm | <1 | 0  | 0  | 0  |
| Tin        | ppm | <1 | <1 | <1 | 0  |
| Aluminum   | ppm | 1  | 2  | 1  | 2  |
| Chromium   | ppm | <1 | <1 | 0  | 0  |
| Molybdenum | ppm | 58 | 60 | 61 | 62 |
| Nickel     | ppm | 0  | <1 | 0  | 0  |
| Titanium   | ppm | <1 | <1 | <1 | <1 |
| Silver     | ppm | 0  | 0  | 0  | 0  |
| Manganese  | ppm | <1 | <1 | <1 | <1 |
| Vanadium   | ppm | 0  | 0  | 0  | 0  |



#### ADDITIVES

|            |     |      |      |      |      |
|------------|-----|------|------|------|------|
| Calcium    | ppm | 864  | 886  | 912  | 839  |
| Magnesium  | ppm | 1134 | 1123 | 1144 | 1124 |
| Zinc       | ppm | 1207 | 1238 | 1273 | 1155 |
| Phosphorus | ppm | 1050 | 1089 | 1130 | 1040 |
| Barium     | ppm | 0    | 0    | 0    | 0    |
| Boron      | ppm | 17   | 27   | 27   | 21   |

#### Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.

Depot: BECLAT

Unique No: 5630391

Signed: Wes Davis

Report Date: 22 Aug 2023



### GRAPHS

