

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 145793-1216 - Rear Differential

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



**PF Resolu Canada Inc.**  
5850 avenue des jardins  
La Dore, QC  
CA G8J 1B4  
Contact: Dominic Caron

T:  
F:



#### SAMPLE INFORMATION

|               |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH          | LH          | LH          | LH0259741   |
| Sample Date   | 30 Nov 2023 | 11 Oct 2023 | 04 Jul 2023 | 17 May 2023 |
| Machine Hours | 5000        | 4000        | 2000        | 1020        |
| Oil Hours     | 0           | 0           | 0           | 0           |
| Oil Changed   | Changed     | Changed     | N/A         | Changed     |
| Sample Status | NORMAL      | NORMAL      | NORMAL      | NORMAL      |



#### OIL CONDITION

|             |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 189 | 177 | 180 | 177 |
|-------------|-----|-----|-----|-----|-----|



#### CONTAMINATION

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Water     | %   | NEG | NEG | NEG | NEG |
| Silicon   | ppm | 2   | 1   | 2   | 3   |
| Sodium    | ppm | 1   | 2   | 3   | 3   |
| Potassium | ppm | 0   | 0   | <1  | <1  |



#### WEAR METALS

|            |     |    |    |    |    |
|------------|-----|----|----|----|----|
| Iron       | ppm | 47 | 51 | 58 | 55 |
| Copper     | ppm | 2  | 5  | 11 | 18 |
| Lead       | ppm | 0  | <1 | <1 | <1 |
| Tin        | ppm | 0  | 0  | 0  | 0  |
| Aluminum   | ppm | <1 | <1 | <1 | <1 |
| Chromium   | ppm | 0  | 0  | <1 | 0  |
| Molybdenum | ppm | 0  | 0  | 0  | 0  |
| Nickel     | ppm | <1 | <1 | <1 | 0  |
| Titanium   | ppm | 0  | 0  | 0  | 0  |
| Silver     | ppm | <1 | <1 | 0  | 0  |
| Manganese  | ppm | 0  | <1 | 1  | 2  |
| Vanadium   | ppm | 0  | 0  | 0  | 0  |



#### ADDITIVES

|            |     |      |      |      |      |
|------------|-----|------|------|------|------|
| Calcium    | ppm | 3    | 5    | 17   | 48   |
| Magnesium  | ppm | <1   | 0    | <1   | <1   |
| Zinc       | ppm | 4    | 6    | 13   | 20   |
| Phosphorus | ppm | 2293 | 2294 | 2373 | 2433 |
| Barium     | ppm | <1   | <1   | 0    | 0    |
| Boron      | ppm | <1   | <1   | 2    | 3    |

#### 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: ABILAD  
Unique No: 5685332  
Signed: Wes Davis  
Report Date: 01 Dec 2023



### GRAPHS

