

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR 013805-710 - Rear Right Planetary

Sample No: LHP0012211

Oil Type: {unknown}



**BOIS MARSOUI GDS INC.**  
 2 RTE DE LA MINE CANDEGO  
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#### INFORMATION SUR L'ÉCHANTILLON

|                      |             |             |             |             |
|----------------------|-------------|-------------|-------------|-------------|
| Numéro d'échant.     | LHP0012211  | LHP0012243  | LHP0012233  | LHP0012245  |
| Date d'échant.       | 18 Sep 2004 | 21 Jun 2004 | 09 Apr 2004 | 16 Nov 2003 |
| Heures de la Machine | 5000        | 4000        | 0           | 1000        |
| Heures de l'huile    | 0           | 0           | 0           | 0           |
| Huile changée        | N/A         | N/A         | N/A         | N/A         |
| Statut de l'échant.  | NORMAL      | NORMAL      | NORMAL      | NORMAL      |



#### ÉTAT D'HUILE

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Visc 40°C | cSt | 105 | 179 | 126 | 186 |
|-----------|-----|-----|-----|-----|-----|



#### CONTAMINATION

|           |     |   |   |    |    |
|-----------|-----|---|---|----|----|
| Silicium  | ppm | 7 | 6 | 11 | 16 |
| Sodium    | ppm | 8 | 7 | 9  | 19 |
| Potassium | ppm | 0 | 0 | 2  | 4  |



#### MÉTAUX D'USURE

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Fer       | ppm | 168 | 147 | 162 | 208 |
| Cuivre    | ppm | 9   | 12  | 12  | 14  |
| Plomb     | ppm | <1  | <1  | <1  | 1   |
| Étain     | ppm | 0   | 0   | <1  | <1  |
| Aluminium | ppm | <1  | 1   | 2   | 2   |
| Chrome    | ppm | 2   | 1   | 2   | 2   |
| Molybdène | ppm | <1  | <1  | <1  | 0   |
| Nickel    | ppm | <1  | <1  | <1  | <1  |
| Titane    | ppm | 0   | 0   | <1  | <1  |
| Argent    | ppm | <1  | 0   | 0   | 0   |
| Manganèse | ppm | 2   | 2   | 2   | 4   |
| Vanadium  | ppm | 0   | 0   | 0   | 0   |



#### ADDITIFS

|           |     |     |      |      |      |
|-----------|-----|-----|------|------|------|
| Calcium   | ppm | 49  | 40   | 49   | 69   |
| Magnésium | ppm | 3   | 2    | 3    | 5    |
| Zinc      | ppm | 29  | 34   | 48   | 94   |
| Phosphore | ppm | 900 | 1126 | 1128 | 2025 |
| Baryum    | ppm | 2   | 2    | 2    | 3    |
| Bore      | ppm | 4   | 4    | 3    | 4    |

#### Diagnostic

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

Depot: BOILAV  
 Unique No: 1837337  
 Signed: Kevin Marson  
 Report Date: 28 Sep 2004



### GRAPHS

