

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40C123508-1527 - Diesel Engine

Sample No: LH0175672

Oil Type: DIESEL ENGINE OIL SAE 30



#### INFORMATION SUR L'ÉCHANTILLON

| Número d'échant.     | LH0175672   | LH0175669   | LH0175670   | LH0175663   |
|----------------------|-------------|-------------|-------------|-------------|
| Date d'échant.       | 16 Nov 2023 | 15 Jun 2023 | 15 Jun 2023 | 08 Mar 2023 |
| Heures de la Machine | 5000        | 4250        | 0           | 4000        |
| 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      |

**DOMINION NICKEL ALLOYS LTD.**

834 APPLEBY LINE  
BURLINGTON, ON  
CA L7L 2Y7

Contact: Trevor Taylor  
trevor@domnickel.com  
T: (905)639-9939  
F: (905)639-3788



#### ÉTAT D'HUILE

| Visc 100°C     | cSt | 11.0 | 10.7 | 10.7 | 10.6 |
|----------------|-----|------|------|------|------|
| Oxydation (PA) | %   | 61   | 59   | 60   | 64   |



#### CONTAMINATION

| Eau              | %   | NEG  | NEG  | NEG  | NEG  |
|------------------|-----|------|------|------|------|
| % de suie        | %   | 0    | 0    | 0    | 0    |
| Nitration (PA)   | %   | 70   | 52   | 56   | 66   |
| Sulfatation (PA) | %   | 55   | 53   | 53   | 58   |
| Glycol           | %   | NEG  | NEG  | NEG  | NEG  |
| Essence          | %   | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicium         | ppm | 9    | 7    | 7    | 7    |
| Sodium           | ppm | 2    | 1    | 1    | 1    |
| Potassium        | ppm | <1   | <1   | <1   | <1   |

#### 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  | 2  | 2  | 3  |
| Cuivre    | ppm | 2  | <1 | 1  | 2  |
| Plomb     | ppm | <1 | 0  | 0  | <1 |
| Étain     | ppm | <1 | 0  | <1 | <1 |
| Aluminium | ppm | 1  | 1  | 1  | 2  |
| Chrome    | ppm | 0  | 0  | 0  | 0  |
| Molybdène | ppm | 40 | 65 | 64 | 70 |
| Nickel    | ppm | 0  | 0  | 0  | <1 |
| Titane    | ppm | 9  | <1 | <1 | <1 |
| Argent    | ppm | <1 | <1 | 0  | 0  |
| Manganèse | ppm | 0  | <1 | <1 | <1 |
| Vanadium  | ppm | 0  | 0  | 0  | 0  |



#### ADDITIFS

|           |     |      |      |      |      |
|-----------|-----|------|------|------|------|
| Calcium   | ppm | 1634 | 1763 | 1632 | 1810 |
| Magnésium | ppm | 541  | 427  | 398  | 443  |
| Zinc      | ppm | 1198 | 1158 | 1073 | 1194 |
| Phosphore | ppm | 1035 | 1070 | 999  | 1092 |
| Baryum    | ppm | <1   | 0    | 0    | 0    |
| Bore      | ppm | 73   | 112  | 94   | 78   |

Depot: DOMBUR  
Unique No: 5682134  
Signed: Wes Davis  
Report Date: 17 Nov 2023



### GRAPHS

