

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 120280-1216 - Diesel Engine

Sample No: LH0281231

Oil Type: PETRO CANADA SUPREME 5W30



#### INFORMATION SUR L'ÉCHANTILLON

| Numéro d'échant.     | LH0281231   | LH0276849   | LH0186041   | LH0202613   |
|----------------------|-------------|-------------|-------------|-------------|
| Date d'échant.       | 24 Jan 2024 | 03 Nov 2023 | 05 May 2022 | 16 Nov 2021 |
| Heures de la Machine | 8492        | 8000        | 5066        | 4046        |
| Heures de l'huile    | 0           | 0           | 0           | 0           |
| Huile changée        | Changed     | Changed     | Changed     | Changed     |
| Statut de l'échant.  | NORMAL      | NORMAL      | NORMAL      | NORMAL      |

**American Iron and Metal**  
1273 Kelly Lake Rd.  
Sudbury, ON  
CA P3E 5P5  
Contact: Service Manager



#### ÉTAT D'HUILE

| Visc 100°C     | cSt | 11.4 | 11.3 | 13.2 | 13.6 |
|----------------|-----|------|------|------|------|
| Oxydation (PA) | %   | 80   | 84   | 76   | 76   |

T:  
F:



#### CONTAMINATION

| Eau              | %   | NEG  | NEG  | NEG  | NEG  |
|------------------|-----|------|------|------|------|
| % de suie        | %   | 0    | 0    | 0    | 0    |
| Nitration (PA)   | %   | 85   | 86   | 78   | 72   |
| Sulfatation (PA) | %   | 57   | 59   | 64   | 64   |
| Glycol           | %   | NEG  | NEG  | NEG  | NEG  |
| Essence          | %   | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicium         | ppm | 7    | 7    | 8    | 6    |
| Sodium           | ppm | 4    | 4    | 3    | 2    |
| Potassium        | ppm | <1   | <1   | 2    | 7    |

#### 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 | 5  | 6  | 4  | 3  |
| Cuivre    | ppm | 1  | 2  | 1  | 1  |
| Plomb     | ppm | <1 | <1 | 0  | 0  |
| Étain     | ppm | 0  | <1 | <1 | <1 |
| Aluminium | ppm | 2  | 2  | <1 | <1 |
| Chrome    | ppm | <1 | <1 | 0  | 0  |
| Molybdène | ppm | 54 | 58 | 20 | 4  |
| Nickel    | ppm | <1 | 0  | <1 | <1 |
| Titane    | ppm | 0  | 0  | <1 | 0  |
| Argent    | ppm | 0  | 0  | <1 | <1 |
| Manganèse | ppm | 0  | 0  | <1 | <1 |
| Vanadium  | ppm | 0  | 0  | 0  | 0  |



#### ADDITIFS

|           |     |      |      |      |      |
|-----------|-----|------|------|------|------|
| Calcium   | ppm | 788  | 817  | 1625 | 2122 |
| Magnésium | ppm | 1055 | 1099 | 391  | 82   |
| Zinc      | ppm | 1129 | 1168 | 1129 | 1208 |
| Phosphore | ppm | 991  | 1011 | 993  | 1055 |
| Baryum    | ppm | 0    | 0    | 0    | <1   |
| Bore      | ppm | 29   | 19   | 73   | 133  |

Depot: AIMSUD  
Unique No: 5736299  
Signed: Wes Davis  
Report Date: 01 Mar 2024



### GRAPHS

