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**TECHNICAL DATA SHEET**

# HB-597

## Lithium EP-2 Complex Grease

### Description:

- EP high load carrying capacity
- Excellent corrosion and wear protection
- Excellent water resistance
- Excellent high temperature stability
- Outstanding low temperature pumpability
- Formulated with type 2 base stocks, a lithium complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.
- Blue in color with a tacky texture.
- Excellent load carrying protection
- Specially formulated for extreme pressure wheel bearing and chassis applications
- Perfect for the centralized lubrication systems found on today's mobile equipment

### Applications:

Steering drag links  
Transmission  
Pivots operating under high and low temperature conditions

Ling pins  
Shackle pins  
Cross shaft spring pins

Brake cam shafts  
Fifth wheel faceplates  
Cross shaft spring pins

**Typical Test Data:**

|  | <b>00</b>          | 0        | 1        | 2        |
|--|--------------------|----------|----------|----------|
| NLGI Grade                               | <b>00</b>          | 0        | 1        | 2        |
| CPS Number                               | 235212             | 235211-  | 235209   | 235208   |
| MSDS Number                              | 6818               | 6818     | 6818     | 6818     |
| Operating Temperature, °C(°F)            |                    |          |          |          |
| Minimum                                  | -34(-30)           | -34(-30) | -18(0)   | -18(0)   |
| Maximum                                  | 77(170)            | 99(210)  | 177(350) | 177(350) |
| Penetration, at 25°C(77°F)               |                    |          |          |          |
| Unworked                                 | 430                | 380      | 330      | 257      |
| Worked (60 Strokes)                      | 415                | 370      | 325      | 280      |
| Dropping Point, °C(°F)                   | 235(455)           | 235(455) | 255(491) | 265(509) |
| Timken OK Load, lb                       | 55                 | 55       | 55       | 75       |
| Four-Ball                                |                    |          |          |          |
| Weld Point, kg                           | 400                | 400      | 500      | 500      |
| Wear Scar Diameter, mm                   | 0.45               | 0.45     | 0.45     | 0.45     |
| Lincoln Ventmeter, psig at 30 s, at      |                    |          |          |          |
| 75°F                                     | 50                 | 100      | 200      | 250      |
| 30°F                                     | 50                 | 150      | 450      | 700      |
| 0°F                                      | 100                | 450      | 1250     | 1400     |
| -22°F                                    |                    |          |          |          |
| Copper Corrosion                         | 1B                 | 1B       | 1B       | 1B       |
| Bearing Rust,<br>10% Synthetic Sea Water | Pass               | Pass     | Pass     | Pass     |
| Thickener, %                             | 4.0                | 5.8      | 8.0      | 11.0     |
| Type                                     | Lithium<br>Complex |          |          |          |
| Viscosity, Kinematic*                    |                    |          |          |          |
| cSt at 40°C                              | 189                | 189      | 189      | 189      |
| cSt at 100°C                             | 17.5               | 17.5     | 17.5     | 17.5     |
| Viscosity, Saybolt*                      |                    |          |          |          |
| SUS at 100°F                             | 992                | 992      | 992      | 992      |
| SUS at 210°F                             | 90                 | 90       | 90       | 90       |
| Viscosity Index                          | 100                | 100      | 100      | 100      |
| Flash Point, °C(°F)*                     | 246(475)           | 274(525) | 274(525) | 274(525) |
| Texture                                  | Tacky              | Tacky    | Tacky    | Tacky    |
| Color                                    | Blue               | Blue     | Blue     | Blue     |