



Hicks Oils  
845 N. Hickory  
DuQuoin, IL 62832

Sales: (314) 525-2568  
Operations: (618) 542-5431

# FORMULA 500

## Synthetic Blend CJ-4/SM Multigrade Motor Oil

**Formula 500®** Synthetic Blend CJ-4/SM motor oil is for use in diesel engines under service conditions from mild to heavy duty with fuel of any sulfur level. This oil is recommended for use in nearly all two- and four-cycle diesel applications. The current formulations meet the API Service Classifications CJ-4 and older diesel service categories such as CI-4PLUS, CI-4, and CH-4.

Other than the previously mentioned API service categories, **Formula 500®** Synthetic Blend 15W-40 motor oil meets the requirements of the following equipment manufacturer's specifications: Mack EO-O Premium Plus, Detroit Diesel DDC 93K218, Volvo VDS-4, Renault VI RLD-3, and Cummins CES 20081, CAT: ECF-3 and ECF-1-a, ACEA: E7-04 Issue 2 (2007) and E9-08 (2008).

Always follow engine manufacturer's recommendations on API quality, viscosity, and drain intervals.

This oil should not be used in Caterpillar TO-4 applications, two-cycle gasoline engines, aircraft engines, or EMD Diesel engines.

### Typical Properties:

| Product                                       | Synthetic Blend CJ-4/SM 15W-40 |
|---|--------------------------------|
| Product Code:                                 | 61179                          |
| SAE Viscosity Grade                           | 15W-40                         |
| Kinematic Viscosity @ 100 °C cSt (ASTM D-445) | 15.0                           |
| Kinematic Viscosity @ 40 °C cSt (ASTM D-445)  | 111.0                          |
| Viscosity Index (ASTM D-2270)                 | 140                            |
| Total Base Number (ASTM D-2896)               | 8.3                            |
| Flash Point °C (°F) (ASTM D-92)               | 232,(449)                      |
| Pour Point °C (°F) (ASTM D-97)                | -36,(-33)                      |
| Zn (ppm)                                      | 1218                           |
| Ca (ppm)                                      | 2277                           |
| P (ppm)                                       | 1094                           |