



HICKS oils  
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## Conventional CK-4 Motor Oils

Nature's Choice® CK-4 Motor Oils are for use in diesel engines under service conditions from mild to heavy duty with fuel of any sulfur level. These oils are recommended for use in nearly all two- and four-cycle diesel applications. The current formulation meets all API Service Classifications up to CK-4 including CJ-4, CI-4, CI-4 PLUS, and CH-4. Nature's Choice® CK-4 Motor Oils are also suitable where Cummins CES 20086, Mack EOS-4.5, Detroit Diesel DDC93K222, Volvo VDS-4.5, Renault VI RLD-4, CAT® ECF-3 and ECF-1-a, MAN 3575, JASO DH-2, Ford WSS-W2C171-E, MB 228.31, Deutz DQC III-10 LA, and ACEA E7-12 and E9-12 specifications are demanded. Nature's Choice® CK-4 Motor Oils are licensed by the API as CK-4 motor oils. This formal approval demonstrates the commitment of Nature's Choice® to produce quality products on the leading edge of lubrication technology.

The Nature's Choice® product line was developed in response to President Clinton's Executive Order 13101 which mandated the use of motor oils with re-refined content for government use. Since that time, the Nature's Choice® product line has grown from motor oils to include many other types of lubrication. Blending virgin and re-refined base stocks with quality additive chemistry, Nature's Choice® brand products are able to meet the top performance grades required for today's lubrication requirements, while being more environmentally friendly.

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

### Typical Properties:

| Product: FORMULA 500® CK-4 Motor Oils         |        |        |
|---|--------|--------|
| Product Code:                                 | 171117 | 171119 |
| SAE Viscosity Grade                           | 10W-30 | 15W-40 |
| Kinematic Viscosity @ 100°C, cSt (ASTM D-445) | 11.85  | 15.40  |
| Kinematic Viscosity @ 40°C, cSt (ASTM D-445)  | 81.62  | 115.40 |
| Viscosity Index (ASTM D-2270)                 | 139    | 140    |
| Total Base Number (ASTM D-2896)               | 10     | 10     |
| Flash Point °C (°F) (ASTM D-92)               | 241    | 241    |
| Pour Point °C (°F) (ASTM D-97)                | -36    | -32    |
| Zn (ppm)                                      | 1250   | 1250   |
| Ca (ppm)                                      | 2360   | 2360   |
| P (ppm)                                       | 1120   | 1120   |