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## Conventional CK-4 Motor Oils

FORMULA 500® 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. FORMULA 500® 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 3775, JASO DH-2, Ford WSS-W2C171-F1, MB 228.31, Deutz DQC III-10 LA, and ACEA E7-12 and E9-12 specifications are demanded.

FORMULA 500® CK-4 Motor Oils are licensed by the API as CK-4 motor oils. This formal approval demonstrates the commitment of FORMULA 500® to produce quality products on the leading edge of lubrication technology.

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:	71117	71119
SAE Viscosity Grade	10W-30	15W-40
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	11.85	13.7
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	81.62	99.9
Viscosity Index (ASTM D-2270)	139	138
Total Base Number (ASTM D-2896)	9	9
Flash Point °C (°F) (ASTM D-92)	241	241
Pour Point °C (°F) (ASTM D-97)	-39	-36
Zn (ppm)	1285	1285
Ca (ppm)	1400	1400
P (ppm)	1185	1185
Mg (ppm)	450	450