



Hicks Oils  
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# FORMULA 500

## Formula 500 SM Motor Oils

**Formula 500<sup>®</sup>** API Service SM motor oils are designed to meet the high performance requirements initiated in 2005 automotive lines. Formula 500<sup>®</sup> API SM motor oils use high quality petroleum base stocks along with state of the art additive technology to create a high quality motor oil for use in gasoline powered engines. These API licensed motor oils provide protection against wear and deposits in the engine, while extending the life of emission control components. This premium blend of motor oil allows up to 5,000 miles between oil changes.

These oils carry the American Petroleum Institute SM approvals, and the 5W-20, 5W-30, and 10W-30 grade also carry the ILSAC GF-4 approval. The API donut and ILSAC starburst identify oils which have undergone the necessary testing to meet current automotive specification. In addition the API tests samples from the market place to verify compliance with current specifications. These oils also meet all older API gasoline specifications (SL, SJ, SH, etc...).

Always follow manufacturer's recommendations for service classification and viscosity grade.

### Typical Properties:

Product: Formula 500 SM Motor Oils					
SAE Viscosity Grade	5W-20	5W-30	10W-30	10W-40	20W-50
API Classification, (ILSAC Classification)	SM (GF-4)	SM (GF-4)	SM (GF-4)	SM	SM
Product Code	41125	41126	41127	41128	41120
Kinematic Viscosity @ 100 °C cSt (ASTM D-445)	8.58	10.76	10.4	15.5	18.2
Kinematic Viscosity @ 40 °C cSt (ASTM D-445)	46	64.3	68	106	161
Viscosity Index (ASTM D-2270)	165	159	139	155	126
Total Base Number (ASTM D-2896)	8.1	8.1	8.3	8.2	8.1
Flash Point °C (°F) (ASTM D-92)	202(396)	202(396)	244 (471)	204(399)	204(399)
Pour Point °C (°F) (ASTM D-97)	-45(-49)	-45(-49)	-39(-38)	-30(-22)	-21(-6)
API Gravity (ASTM D-1298)	32	32	30.6	30.6	29.4
Zn (ppm)	853	863	853	853	853
Ca (ppm)	2132	2146	2146	2146	2146
P (ppm)	740	774	774	774	774