



Schaeffer Manufacturing Co. DuQuoin
 845 N. Hickory
 DuQuoin, IL 62832

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



Full Synthetic API SP Motor Oils

FORMULA 500® SP Full Synthetic Motor Oils are designed to meet the high performance requirements of the current API SP service category introduced in 2020. FORMULA 500® API SP Full Synthetic Blend Motor Oils use high quality synthetic base stocks along with state of the art additive technology to create a high quality motor oil for use in gasoline powered engines, including turbocharged GDI engines. These oils provide excellent protection against wear and deposits in the engine, while extending the life of emission control components. They also help prevent occurrences of LSPI (low speed pre-ignition), which can cause damage to engines.

FORMULA 500® SP Full Synthetic Motor Oils formally carry the American Petroleum Institute’s (API) SP approval, and proper viscosities are also ILSAC GF-6 approved and are considered Resource Conserving. These formal approvals are denoted by the API donut and ILSAC starbursts identifying oils which have undergone the necessary testing and monitoring by the API to verify the product meets the current automotive specification. These oils are also fully backwards compatible to all older API gasoline powered engine specifications such as SN PLUS, SN, SM, etc.

As with any lubricant, always follow manufacturer’s recommendations for proper service classification and viscosity grade.

Typical Properties:

Product: FORMULA 500® Full Synthetic SP Motor Oils				
SAE Viscosity Grade	0W-20	5W-20	5W-30	10W-30
API Classification, (ILSAC Classification)	SP (GF-6A)	SP (GF-6A)	SP (GF-6A)	SP (GF-6A)
Product Code	53162	53165	53166	53167
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	8.4	8.9	10.9	10.3
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	44.6	48.8	62.2	62.6
Viscosity Index (ASTM D-2270)	169	163	168	153
Total Base Number (ASTM D-2896)	7	7	7	7
Zn (ppm)	760	710	710	710
Ca (ppm)	800	760	760	760
Mg (ppm)	750	700	700	700
P (ppm)	700	655	655	655