

## 9003D SUPREME 9000 FULL SYNTHETIC ENGINE OIL SAE 5W-30

Supreme 9000 Full Synthetic SAE 5W-30 is a premium quality full synthetic, multi-grade engine oil that is specifically formulated to protect critical engine parts from damaging friction and wear, provide enhance protection against the formation of sludge and deposits, provide increased engine efficiency and fuel economy benefits and extend engine life in all gasoline fueled automobile and light duty truck engines including those that are turbocharged and supercharged.

Supreme 9000 Full Synthetic SAE 5W-30 is blended from a unique combination of select synthetic base fluids. This unique combination provides the Supreme 9000 Full Synthetic SAE 5W-30 with the following advantages:

- Superior cold cranking and oil pumpability at low temperatures
- Exceptional oxidative stability especially at high engine operating temperatures
- Exceptional resistance to thermal degradation to prevent the formation of high temperature engine deposits
- Exceptional low volatility characteristics, that provides enhanced oil consumption control and prevention of the formation of deposits on critical engine parts.
- A high viscosity index
- Enhanced film strength at high operating temperatures
- Low coefficients of friction, which result in improved fuel economy benefits
- Extended oil drain capability and intervals

Blended into the synthetic base stocks is a highly advanced proprietary performance additive package and a highly shear stable viscosity index improver. This combination provides the Supreme 9000 Full Synthetic SAE 5W-30 with the following performance benefits:

- A patented novel zinc anti-wear additive system that minimizes volatility and chemical breakdown of the zinc anti-wear additive in order to provide maximum and long lasting anti-wear performance and robustness needed to protect the engine
- Further engine protection, mitigating LSPI events
- Superior protection against timing chain wear
- Outstanding protection against the formation of high temperature deposits
- Enhanced protection from harmful sludge in order to keep the Supreme 9000 Full Synthetic flowing to critical engine components and prevent catastrophic engine wear
- High detergency and dispersancy to suppress the formation of deposits, sludge and varnish buildup to help maintain engine performance, fuel economy and emissions
- Active cleaning agents for increased and enhanced engine cleanliness
- Exceptional protection against the formation of coking deposits on turbochargers
- Exceptional protection against thermal breakdown during high engine oil operating temperature conditions
- Improved protection against oxidative thickening
- Rapid circulation and excellent pumpability
- Excellent low temperature flow characteristics and pumpability to provide rapid circulation and minimize wear during start-up
- Excellent resistance to thinning at high temperatures
- Excellent shear stability to resist viscosity shear down and breakdown

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- Excellent high temperature/high shear performance to provide excellent oil film thickness and engine protection at high operating temperatures and shear rates, while minimizing lubricant frictional resistance
- Enhanced lubrication to maintain maximum horsepower and acceleration
- Hydro-Ethanol inhibitors that significantly reduce the problems that can result from the use of ethanol blended fuels
- Prevention of the formation of rust, white sludge and lubricant starvation that can occur with 20% or higher ethanol fuels
- Outstanding rust and corrosion protection
- Substantially reduced oil consumption
- Extra protection for hot running engines
- Extra protection for cold running engines in stop-and-go service
- Reduced oil ageing allowing for increased drain intervals
- A substantial reduction in ring and cylinder wear
- Reduced bearing wear and increased bearing life
- Excellent rust and bearing corrosion protection
- Enhanced vehicle emissions control system compatibility
- Extended vehicle emissions control system life
- Increased fuel economy benefits and retention for improved gas mileage during the oil's entire oil drain interval
- Superior valve train-wear protection
- Increased engine life
- Excellent anti-foaming properties

Further blended into Supreme 9000 Full Synthetic Engine Oil SAE 5W-30 are two proven frictional modifiers, Micron Moly<sup>®</sup>, a liquid soluble type of moly, and Schaeffer Mfg.'s own proprietary additive Penetro<sup>®</sup>. Once plated, these frictional modifiers form a long lasting, slippery, tenacious lubricant film, which prevents metal-to-metal contact and damaging frictional wear which results in:

- Increased fuel economy
- A low coefficient of friction
- Significantly less bearing, ring, piston, cylinder and valve-train wear
- Increased engine efficiency, durability, and life
- Less down-time with reduced maintenance costs

Supreme 9000 Full Synthetic SAE 5W-30 meets and exceeds the following specifications and manufacturers' requirements: MIL-PRF-46152E; CID A-A-52039B, API Service Classification SN PLUS, Resource Conserving; ILSAC GF-5; Ford WSS-M2C946-A (SAE 5W-30); Ford WSS-M2C930-A; Ford WSS-M2C929A (SAE 5W-30); General Motors dexos1<sup>®</sup>Gen2 compliant; General Motors 6094M; Chrysler MS-6395Q; Toyota and Honda Service Fill Specifications, Honda/Acura HTO-06.

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## TYPICAL PROPERTIES

### SAE Grade

Specific Gravity (ASTM D1298)	0.86
Viscosity @ 40°C, cSt (ASTM D445)	58.00 -73.00
Viscosity @ 100°C, cSt (ASTM D445)	10.00 -12.00
Viscosity Index (ASTM D2270)	167
High Temperature/High Shear Viscosity 302°F/150°C, cP (ASTM D4683)	3.32
Cold Cranking Viscosity (ASTM D5293) @-30°C, cP	6,000
Mini Rotary Viscosity TP-1 @ -35°, cP (ASTM D4683)	19,500
Flash Point °F/°C (ASTM D92)	445°/229.44°
Stable Pour Point °F/°C (FTM 7916 Method 203)	<-41°/<-42°
Total Base Number (ASTM D2896)	7. to 7.5
Sulfated Ash Content % wt (ASTM D874)	0.84%
Shear Stability (ASTM D3945 Procedure A) % Viscosity Loss	5%
Copper Strip Corrosion Test (ASTM D130)	1a
NOACK Volatility %Evaporation Loss (ASTM D5800)	7.9%
Foam Test (ASTM D892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Sequence IV	0/0
High Temperature Foam Test (ASTM D6082 Option A)	0/0
MHT-4 TEOST (ASTM D6335) Deposit Weight, mg	10
TEOST 33C (ASTM D6335) Deposit Weight, mg	12.4
Engine Rusting Ball and Rust Test (ASTM D6557) Average Gray Value	133
Sequence III G % Viscosity increase @ 40°C	130%
Average Cam & Lifter Wear, µm	9.8
% Phosphorous (ASTM D4951)	0.076