



## PRODUCT DATA SHEET

# NATIONAL™ SYNTHETIC MB SAE 5W-40

## HIGH PERFORMANCE ENGINE OIL FOR EUROPEAN VEHICLES

### PRODUCT DESCRIPTION

NATIONAL™ SYNTHETIC MB SAE 5W-40 engine oil is formulated with advanced additive technology and Synthetic base stocks. It exceeds API SN requirements for model year 2007 and newer diesel engines and is fully backward compatible. Provides excellent wear protection, outstanding resistance to viscosity and thermal breakdown at high temperatures, protects against rust and bearing corrosion and low volatility for reduced oil consumption.

### INDUSTRY AND OEM SPECIFICATIONS

- ◆ API SN
- ◆ API SM, SL, SJ and prior including CF (now obsolete)
- ◆ Meets or exceeds engine requirements for:
  - ACEA A3 B3-08, A3 B3-10, A3-B3-12, A3 B4-08, A3 B4-10, A3 B4-12
  - BMW Longlife – 01
  - MB 229.3, 229.5
  - Porsche A40
  - PSA B71 2296
  - Renault RN0700, RN0710
  - VW 502 00, 505 00
  - GM-LL-B-025

### APPLICATIONS

NATIONAL™ SYNTHETIC MB SAE 5W-40 motor oil meets or exceeds a wide range of North American and European performance requirements. It is recommended for use in passenger cars, light trucks and sports utility vehicles under all driving conditions. It is particularly recommended for use in European vehicles such as BMW, Mercedes-Benz, Porsche and Volkswagen.

D0060316

5009 WEST 81ST STREET | INDIANAPOLIS | INDIANA | 46268 | 800-829-8899 | FAX 317-875-0889

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes that the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.



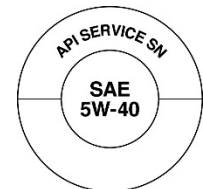
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## FEATURES

- ✓ Minimizes engine deposits and emissions
- ✓ Full synthetic formulation for a broad range of applications
- ✓ Delivers exceptional low temperature pumpability for protection during cold starts

## TECHNICAL DATA

*(typical values)*



SAE GRADE	5W-40	
Product Number	07-195540	
SDS Number	S006.1	
Viscosity @ 100 <sup>0</sup> C, cSt	D445	13.33
Viscosity @ 40 <sup>0</sup> C, cSt	D445	81.38
Viscosity Index	D2770	167
API Gravity	D1250	34.4
Pour Point, °C	D5950	-48
Color ASTM	D1500	L3.0
CCS @ -30 <sup>0</sup> C, cP	D5293	6340
Flash Point COC, °C	D92	200
TBN	D2896	10.0
HTHS @ 150 <sup>0</sup> C, mPa s	D4683	3.8

*Always follow your operator's manual for recommended viscosity grade and API service classification  
The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.*

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