

Designed for European Vehicles



Product Description

PennGrade EURO Full Synthetic Motor Oil has been formulated with the latest high-tech additive technology and premium quality synthetic base oils. It is designed to meet the toughest demands of today's automotive engine technology, offering exceptional protection and performance for today's engines.

PennGrade EURO Full Synthetic Motor Oil has been designed to offer the highest levels of performance, engine cleanliness and protection while supporting the performance requirements of API SL. The product has been designed to insure quick cold weather engine start up while protecting vital engine parts, and to provide exceptional protection against wear in high temperature/high stress applications. **PennGrade EURO Full Synthetic Motor Oil** provides excellent resistance to viscosity breakdown and foaming in modern engines.

Features and Benefits

- Full synthetic formulation helps increase engine life by maintaining oil flow at both high and low temperatures.
- Provides outstanding viscosity stability, superior engine cleaning power, deposit control, and wear protection.
- Combination of synthetic base stocks and unique additives ensures excellent thermal and oxidation stability and outstanding performance during maximum recommended oil drain intervals.
- Excellent low temperature characteristics permit quick engine starting in cold weather and promptly deliver oil to vital metal parts maximizing engine life.
- Anti-foam agents permit higher oil pressure for greater protection.

D-A Lubricant Company, Inc.
801 Edwards Drive
Lebanon, IN 46052 USA
www.dalube.com dalube@dalube.com
1-800-OIL-LUBE (1-800-645-5823)



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PennGrade EURO Synthetic Engine Oil Typical Applications		
	5W-30	5W-40
ACEA A3/B4- 2012	X	X
API SL	X	X
BMW LL-01	X	X
Daimler V2009.1	X	X
MB 229.5	X	X
Opel LL-A-025-B		X
Porsche A40		X
Volkswagen 50200 and 50500	X	X

PennGrade EURO Synthetic Engine Oil Typical Properties			
Test	Method		
SAE Grade	J-300	5W-30	5W-40
Viscosity @ 100°C, cSt	ASTM D445	12	14.2
Viscosity @ 40°C, cSt	ASTM D445	70.1	83.6
Viscosity Index	ASTM D2270	168	177
Cold Cranking Viscosity, cP, @-30C	ASTM D5293	6200	6200
HTHS Viscosity, cP	ASTM D4683	3.6	3.75
Flash Point, °F (°C)	ASTM D92	420 (215)	420 (215)
Pour Point, °F (°C)	ASTM D97	-51 (-46)	-44 (-42)
TBN, mgKOH/g	ASTM D4739	11	10
Sulfated Ash, Wt%	ASTM D874	1.3	1.3

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 DA-PGEUROMO rev 7/2016 new 3/2016 Made in USA

