

Designed for Late Model European Vehicles

PennGrade EURO Elite



Product Description

PennGrade® EURO Elite Motor Oils are full synthetic motor oil formulations specifically designed to satisfy domestic / European emissions, OEM (Original Equipment Manufacturer) and ACEA (European Automobile Manufacturers Association) requirements. They meet ACEA C3-12 / API SN standards and are available in two viscosity grades (5W-30 and 5W-40) typically recommended for today's modern European vehicles. Each is recommended as suitable for use in popular European models including BMW, Mercedes-Benz, Volkswagen and others. **PennGrade EURO Elite Motor Oils** are the perfect complement to the existing PennGrade EURO Motor Oils meeting ACEA A3/B4-2102 / API SL.

PennGrade EURO Elite Motor Oils employ a combination of synthetic base oils and advanced additive technology to meet or exceed the stringent performance demands of late model European gasoline and light duty diesel engines. It is formulated to provide superior fuel economy and wear protection, outstanding thermal and oxidation stability, emissions system (catalytic converter, DPF (Diesel Particulate Filter), O2 Sensor efficiency and excellent low-temperature fluidity and component protection at start up. Additionally, its full synthetic base promotes extended drain intervals while its proven additive system makes it suitable in turbocharged systems. It meets the requirements of API SN / CF.

Features and Benefits

- Full Synthetic formulation
- Tailored for late model European gasoline and light diesel engines (low SAPS)
- Excellent low temperature fluidity and protection at start up
- Outstanding thermal and oxidation stability
- Suitable for emissions (catalytic converter, DPF) and turbocharged systems
- Promotes extended drain intervals
- Superior engine cleanliness, deposit control and wear protection
- Exceptional fuel economy benefits
- Protection against harmful engine deposits and high temperature thermal breakdown.

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| PennGrade EURO Elite Synthetic Engine Oil Typical Applications | | |
|---|-------|--------------------|
| | 5W-30 | 5W-40 |
| ACEA C3-12 | X | X |
| API CF | X | X |
| API SN, SM | X | X |
| BMW LL-04 | X | X |
| Daimler V2012.2 – MB 229.31, 229.51, 229.52 | X | X (MB 229.51 only) |
| VW 50200 | X | X |

| PennGrade EURO Elite Synthetic Engine Oil Typical Properties | | | |
|---|-------------|-----------|-----------|
| Test | Method | | |
| | | 5W-30 | 5W-40 |
| SAE Grade | J-300 | 5W-30 | 5W-40 |
| Viscosity, cSt @ 40°C | ASTM D-445 | 70.8 | 75.8 |
| Viscosity, cSt @ 100°C | ASTM D-445 | 12.2 | 13 |
| Viscosity Index | ASTM D-2270 | 171 | 174 |
| TBN, mgKOH/g | ASTM D-2896 | 7 | 7 |
| Cold Cranking Viscosity, cP @ -30C | ASTM D5293 | 6300 | 6300 |
| HTHS Viscosity, cP | ASTM D4683 | 3.5 | 3.6 |
| Flash Point, °F (°C) | ASTM D-92 | 482 (250) | 491 (255) |
| Sulfated Ash, Wt % | ASTM D-874 | 0.8 | 0.8 |

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