



Product Bulletin

H. D. SELECT DIESEL ENGINE OIL

BRAD PENN® H. D. Select SAE 15W-40 Diesel Engine Oil is a high performance multi-viscosity (SAE 15W-40) crankcase lubricant designed for use in over-the-road and off-road diesel engines. It meets the latest Cummins (20078) and Caterpillar (ECF-1) specifications, along with the latest API Service Category (CI-4) designed to provide protection in over-the-road diesel engines using Exhaust Gas Recirculation (EGR). It is formulated using Group II base stocks to provide superior protection against engine sludge, varnish formations, piston deposits, scuffing and wear. It neutralizes corrosive acids and possesses excellent shear stability for stay-in-grade viscosity performance.

BRAD PENN® H. D. Select SAE 15W-40 Diesel Engine Oil is a universal oil that can be used in both naturally aspirated and turbo-charged diesel engines. Typical applications include high-speed marine engines, over-the-road trucks, agricultural equipment, construction and mining equipment, and stationary diesel engines. It is suitable for use in most domestic and imported diesel and gasoline engines requiring an API CI-4/SL fluid.

BRAD PENN® H. D. Select SAE 15W-40 Diesel Engine Oil is suitable for use where the following oils are recommended:

- API Service Categories: CI-4 CH-4, CG-4, CF-4, CF/SL
- Cummins CES 20078, 20076, 20072 and 20071
- Detroit Diesel Company Series 2000/4000 Category 1 and 7SE-270 (4 stroke)
- Daimler Chrysler 228.1, 229.1
- Volvo VDS
- Mack EO-M Plus, EO-M
- ACEA A3 / B3 / E2
- MAN 271
- Caterpillar engines (meets ECF-1 specification)
- Caterpillar drive trains specifying TO-2 fluids
- Allison C-4 transmission fluid

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Lubricants & Specialty Products Division • 77 North Kendall Avenue • Bradford, PA 16701 • 814.368.1200 • www.amref.com

BRAD PENN[®]
H. D. Select Diesel Engine Oil - Typical Properties

SAE Grade		15W-40
API Service	Test Method	CI-4, CH-4, CG-4, CF-4, CF / SL
API Gravity, 60°F	ASTM D-1298	29.5
Density, lbs/gal (g/L)	Calculated	7.32 (879)
Viscosity, cSt @ 40°C	ASTM D-445	113
Viscosity, cSt @ 100°C	ASTM D-445	15.5
Viscosity, SUS @ 100°F	ASTM D-2161	581
Viscosity, SUS @ 210°F	ASTM D-2161	81.6
Viscosity Index	ASTM D-2270	146
CCS, cP @ (-20°C)	ASTM D-5293	5,010
MRV, cP @ (-25°C) < 35 Pa	ASTM D-4598	40,000
Pour Point, °F (°C) (max)	ASTM D-5949	-25 (-30)
Flash Point, COC, °F (°C) (min)	ASTM D-92	420 (216)
Color	ASTM D-1500	4.0
TBN	ASTM D-2896	10.9
Sulfated Ash, mass %	ASTM D-874	1.40
Product Code		7177

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