



# 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 Cummins (20078) and Caterpillar (ECF-1-a, ECF-2) specifications, along with the 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, CF/SL
- Cummins CES 20078, 20076 and 20072
- Detroit Diesel Company (DDC 93K215) (4 stroke)
- MB 228.1, 229.1
- Volvo VDS-2
- Mack EO-M Plus, EO-M
- ACEA A3 / B3 / E7
- MAN 271
- Caterpillar (ECF-1-a, ECF-2 specification)
- MTU Type I



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**BRAD PENN<sup>®</sup>**  
**H. D. Select Diesel Engine Oil - Typical Properties**

<b>SAE Grade</b>		<b>15W-40</b>
API Service	<b>Test Method</b>	CI-4, CH-4, CF/SL
API Gravity, 60°F	ASTM D-4052	29.4
Density, lbs/gal (g/L)	Calculated	7.322 (877)
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	146.0
CCS @ -20°C, cP	ASTM D-5293	6,000
MRV @ -25°C < 35 Pa, cP	ASTM D-4684	22,900
Pour Point, °F (°C)	ASTM D-5949	-38.2 (-39)
Flash Point, COC, °F (°C)	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
KF Moisture, ppm (Max.)	ASTM D-6304	400
<b>Product Code</b>		<b>7177</b>