

EMD/TRANS ENGINE OIL**MARINE/RAILROAD & INDUSTRIAL | [11 TBN]****Product Description**

Outstanding high-dispersancy, high-alkalinity crankcase oil for railroad and marine diesel engines. SAE 40 is compounded from high quality base oils to reduce hard carbon deposit formation in the ring belt area and minimize port blocking in 2-stroke cycle diesel engines. This oil contains detergent, dispersant, antiwear, antioxidant, corrosion inhibitor, and foam suppressant additives. The additive system used does NOT contain zinc-compound derivatives.

Applications

Recommended for use in Electro-Motive Division of General Motors Corporation (EMD), Caterpillar, General Electric, and other diesel engines operating on low and ULSD fuel. This product meets or exceeds the GE Tier 4, Tier 3, Tier 2+, Tier 1+, and Tier 0+ locomotive requirements, LMOA Gen 7, and is suitable for use in a wide range of railroad, inland/coastal marine, and stationary applications, including vintage engine makes and models such as Detroit Diesel, ALCO, and Fairbanks Morse.

Typical Properties

Property	40	20W-40
Viscosity @ 40°C (cSt)	145	142
Viscosity @ 100°C (cSt)	14.5	15.5
Viscosity Index	98	112
Flash Point °F (COC)	450	450
Pour Point °F	0	0
TBN (ASTM D2896)	11	11
Sulfated Ash %wt	1	1
Zinc Content (ppm)	<10	<10
API Gravity @ 60°F	29	29.1

*The values shown are typical of current production. Some are controlled in the manufacturing process while others are not. All of them may vary within tolerable ranges.