

STERN EMD 40 9 TBN Locomotive Engine Oil P-Series

LUBRICANTS

Outstanding high-dispersancy with reserve alkalinity crankcase oil for railroad and marine diesel engines. Compounded from HVI Base (Paraffinic) oils. Contains detergent, dispersant, anti-wear/ EP agent, antioxidant, corrosion inhibitor, and foam-suppressant additives. The additive system does NOT contain “zinc-compounded” derivatives; they are classified as zinc-free at less than 10 ppm zinc in the formulated product; they are non-chlorinated.

APPLICATIONS

Recommended for use in Electro-Motive Division of General Motors Corporation (EMD), Caterpillar, General Electric Generation IV, LMOA Generation V, VI, and other diesel engines operating on lower sulfur distillate-fuel with a sulfated ash of 1.0%. Meets API Service Classification Level “CD” and can be used in all two and four cycle, turbocharged and no turbocharged, railroad diesel engines burning distillate type fuels where the use of a zinc-free additive system and HVI base oils are preferred. EMD and GE Engines manufactured for railroad and marine use are frequently used in stationary power generation systems with similar crankcase lubrication requirements.

TYPICAL PROPERTIES

EDM/Trans Engine Oil Marine & Railroad	SAE 40
<i>Viscosity (cSt) at 40°C</i>	152
<i>Viscosity (cSt) at 100°C</i>	14.8
<i>Viscosity Index</i>	96
<i>Flash Point, (COC) Deg °F</i>	450
<i>Pour Point, Deg F° (C°)</i>	0(-18)
<i>TBN, ASTM D 2896</i>	9
<i>Ash, %wt.-Sulfated</i>	1.0
<i>Zinc Content, ppm</i>	<10
<i>Chlorine, ppm</i>	<50
<i>Gravity, API @ 60 °F</i>	27.2
<i>Density, lbs/gal @ 60 °F</i>	7.124