

## STERN EMD 20W-40 17 TBN Locomotive **Engine Oil P-Series**

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STERN multigrade engine oil is a high-dispersancy, high-alkalinity crankcase oil for marine/ diesel engines compounded from paraffinic-based mineral oil utilizing a very shear stable dispersant viscosity improver. The SAE 40 grade is manufactured from a blend of solvent refined paraffinic and naphthenic base oils. Both grades contain detergent, dispersant, anti-wear, and anti-oxidant, corrosion inhibitor, and foamsuppressant additives. The additives used do NOT contain 'zinc compound' derivatives.

## **APPLICATIONS**

The SAE 20W-40 grade is suggested for service where the customer desires the wide temperature characteristics of multigrade oils for use in Electro-Motive Division of General Motors Corporation (EMD), Caterpillar, and other diesel engines operating on higher than normal sulfur distillate-fuel where sulfated ash of +1% is acceptable. Also highly recommended for medium speed industrial engines which a multigrade oil is the preferred product. Meets API Service Classification Level "CD". The SAE 40 grade meets API Service Classification CD and CD-II, and the performance requirements for the Caterpillar TO-2 specification.

TYPICAL PROPERTIES  EMD 20W-40 17 TBN Locomotive Engine Oil	20W-40
LIND 2011-40 17 TBN Locomouve Engine on	2077-40
Viscosity (cSt) at 40°C	126
Viscosity (cSt) at 100 °C	14.8
Viscosity Index	120
Flash Point, (COC), °C/°F	455
Pour Point, °C/°F	-5
TBN, ASTM D 2896	17
Ash, %wt Sulfated	1.7
Zinc Content, ppm	<10
Gravity, API @ 60°F	26.5