



### **Super S EMD Railroad and Marine Engine Oils**

**Super S EMD Railroad and Marine Engine Oil** incorporates complex detergents, advanced dispersants and superior oxidation and wear inhibitors to effectively address the deleterious effects of lower oil consumption and engine modifications in new Tier 4 and below tiers locomotives. It is designed for Progress Rail (formerly EMD) and GE Tier 4 engines used in a wide range of railroad, inland marine, mining and stationary engine applications. Super S EMD Railroad and Marine Engine Oil is suitable for use where LOMA Gen 7 and GE Tier 4 is required.

#### **FEATURES/ BENEFITS**

- **Super S EMD Railroad and Marine Engine Oil**
- Improved anti-wear protection:
  - Improved component life cycle costs, Outstanding bearing and yellow metal wear protection.
- Advanced dispersant technology:
  - Higher soot loading capability, addresses issues with lower oil consumption and longer oil sump residence time
- Optimized TBN level and retention:
  - Supports extended drains, Formulated and OEM approved use with ultra low sulfur diesel fuel, reduced sulfated ash, enhanced particulate emission control
- Improved thermal and oxidative stability:
  - Excellent engine cleanliness and sludge control, superior oil viscosity control, minimize oil degradation, effectively addresses increased locomotive utilization rates and power generation.

#### **APPLICATIONS**

Fully approved for use in medium speed, high output turbo-charged late model EMD, GE, and Caterpillar engines, both two and four stroke, for use in:

- Marine service
- Locomotive service
- Stationary electrical generation plants
- Offshore platforms

#### **RECOMMENDATIONS/SPECIFICATIONS**

**Super S EMD Railroad and Marine Engine Oil** is approved for use in applications calling for Progress Rail (formerly EMD) and GE Tier 4 engines.

**SPECIAL HANDLING, NOTICES OR WARNINGS**

Use the same care and handling that you would use with petroleum products.

**TYPICAL CHARACTERISTICS**

<b>Super S EMD Railroad and Marine Engine Oils</b>			
<i>Property</i>	<i>Test Method ASTM -D</i>	<i>SAE 40</i>	<i>20W-40</i>
API Gravity	1298	30	30
Flash Point °C/ °F	92	216/420	216/420
Pour Point °C/ °F	97	-5/23	-12/10
Low Temp Viscosity cP @-15		N/A	4815
Viscosity cSt @ 100°C	445	13.5	15.2
VI	2270	100	140
Color	1500	7	7
TBN	2896	10	10
Ash	874	<1.0	<1.0

Typical test data are average values only.

Minor variations which do not affect product performance are to be expected during normal manufacturing.