



## UNITED EMD RAILROAD OIL

### Product Description:

United EMD Railroad Oil is made from selected highly refined base oils and blended with field-proven additives. This product is zinc-free and chlorine-free that meet the requirement of both General Electric and General Motors (Electro-Motive Division).

United EMD Railroad Oil prevents hard carbon formation in the ring belt area. It contains detergent-dispersant, non-zinc anti-wear additive, oxidation, corrosion and foam inhibitors. High TBN effectively neutralizes acids where high sulfur fuels are used. Suitable for medium speed 2-stroke and 4-stroke diesel engines in a wide range of railroad, marine, and stationery power engine where silver faced turbo charge bearings and wrist pin may be encountered.

### Applications / Benefits:

- ▣ Zinc free formulation protects silver bearings against corrosion for EMD engine.
- ▣ High oxidation stability minimizes sludge and deposit formation.
- ▣ Excellent detergency and dispersancy provides superior engine cleanliness.
- ▣ Excellent in-service retention of TBN facilitates extended drain intervals.

### Typical Characteristics:

Test Description	Method	40	20W40	40	20W40
SAE Viscosity Grade	SAE J 300	40	20W40	40	20W40
Specific Gravity @ 15 °C	ASTM D 4052	0.895	0.882	0.900	0.891
Flash Point, °C	ASTM D 92	238	228	235	225
Pour Point, °C	ASTM D 97	-12	-18	-12	-18
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	142	119.6	145	120.2
cSt @ 100°C	ASTM D 445	14.5	14.3	14.7	14.5
Viscosity Index	ASTM D 2270	100	120	101	122
TBN, mgKOH/g	ASTM D 2896	13.0	13.0	17.0	17.0
Color	ASTM D 1500	<3.5	<3.5	<4.5	<4.5

### Specifications, Approvals & Recommendations:

- API CF-2, CF, CD
- LMOA Generation V
- General Electric Generation IV Long Life
- Caterpillar 3600 for Mixed Fleet Operation

Product Data Sheet