



RR Oil 4011

Zinc-Free Medium Speed Railroad Diesel Engine Oil

Features & benefits

- Low-SAPS and non-chlorinated formulation
- Compatible with exhaust after treatment systems
- Formulated for engines using ULSD and LSD fuels
- Improved TBN retention over previous Gen 6 performance category for long oil life
- Promotes engine cleanliness, controls acid and protects against rust and corrosion



Specifications

◆ Recommend for use in

Specification/manufacturers	4011 SAE 40	4011 20W-40
LMOA Generation 7*	◆	◆
General Electric (GE) Tier 4* Engines	◆	◆
Progressive Rail (formerly EMD) Tier 4* Engines	◆	◆
ALCO	◆	◆
Fairbanks Morse	◆	◆

* Backwards Compatible

Typical results

Test Method	4011 SAE 40	4011 20W-40
SAE GRADE	40	20W-40
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	152.2 14.9	140.2 15.0
VISCOSITY INDEX (D2270)	97	108
ASTM COLOUR (D1500)	≤ 5.0	≤ 5.0
DENSITY @ 15°C (D4052), (kg/L)	0.90	0.89
POUR POINT (D97), (°C)	-18	-24
FLASH POINT (D93), (°C)	219	218
COLD CRANKING VISCOSITY (D5293) @ -15 °C, (cP)	N/A	8,600
TOTAL BASE NUMBER (D2896), (mg KOH/g)	11	11
ZINC (D4951), (ppm)	10 max	10 max
FOAM (D892) SEQUENCE I (mL/mL) SEQUENCE II (mL/mL) SEQUENCE III (mL/mL)	0/0 15/0 0/0	0/0 10/0 0/0

RR 4011 Engine Oils are formulated to meet the requirements of LMOA Generation 7 and Tier 4 diesel engine oil standards. They are backward compatible with older LMOA Generations and Tier 3, 2+, 1+ and 0+ locomotive engines.

RR 4011 Engine Oils are available in a cost-effective SAE 40 and an advanced multi-grade SAE 20W-40 for cold weather protection.

RR 4011 Engine Oils are formulated for use in engines operating with ultra-low sulfur (ULSD) or low sulfur diesel (LSD), where zinc-free oils are required, including railroad, inland / coastal marine, and stationary applications.

RR 4011 Engine Oils are a zinc-free, phosphorus-free, non-chlorinated chemistry. It contains the next-generation additive technology that enhances TBN retention, improves oxidation and thermal stability, controls acid buildup and protect against ferrous and yellow metal wear for long oil life.

Sizes & order codes

Size	4011 SAE 40	4011 20W-40
205L / 54.2 US gal	F0130550	-
1000L 264 US Gal	F0130560	F0130660
BULK	B0129701	B0129901

Always consult your owner's manual for verification of fluid type and grade.
Check with sales associate for the latest product approvals and acceptable performance data.
Please note these are typical performance indicators and can change without notice.
This data sheet replaces previous versions prior to January 7, 2025.
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