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 pervious 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 (formally 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 ultralow 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	ı
1000L 264 US Gal	F0130560	F0130660
BULK	B0129701	B0129901

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