



## DIOL™ 11 RD Series

Mobil Commercial Vehicle Lube , United States

Railroad Crankcase Oils

### Product Description

DIOL™ 11 RD series oils are premium heavy-duty crankcase lubricants for locomotive diesel engines. These products were developed to meet the stringent performance requirements of Tier 4 locomotives. Older locomotive engines will also benefit from using the DIOL 11 RD series. An Electro-Motive Diesel (EMD) and General Electric (GE) endorsed additive system provides excellent engine protection, enhanced oxidation performance, improved oil consumption control, and enhanced Alkalinity / TBN retention, and oil drain interval extension capability\*.

\*Compared to DIOL 9 RD series

### Features and Benefits

- Zinc Free - Excellent Silver Bearing Lubricity
- Enhanced Oxidation, Sludge-Soot Handling and Viscosity Control
- Excellent Deposit, Corrosion and Wear Control
- Formulated for use with low sulfur and ultra-low sulfur diesel fuels
- Chlorine Free

### Applications

DIOL 11 RD oils are formulated to an LMOA Generation 7 quality level with an engine manufacturer endorsed additive package. They meet the requirements of for all EMD and General Electric diesel locomotives.

The DIOL 11 RD product line incorporates a field proven additive technology that offers enhanced oxidation performance and wear inhibitors. This addresses the deleterious effects of lower oil consumption and engine modifications in the new Tier 4 locomotive engines. The DIOL 11 RD series offers enhanced Alkalinity / TBN retention, oxidation and thermal stability, and better acid control

### Specifications and Approvals

This product has the following approvals:	11 RD 20W-40
LMOA Gen 7 - Fundamental Approval (letter on file)	X

### Properties and Specifications

Property	11 RD 40	11 RD 20W-40
Grade	SAE 40	SAE 20W-40
Flash Point, °C, ASTM D92		260
Flash Point, Cleveland Open Cup, °C, ASTM D92	258	
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	14.8	15.4

Property	11 RD 40	11 RD 20W-40
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	148	133
Pour Point, °C, ASTM D97	-33	-30
Total Base Number, mgKOH/g, ASTM D2896	11	11
Viscosity Index, ASTM D2270	99	120
Zinc, mass%, ASTM D4951		10
Zinc, mg/kg, ASTM D5185	<10	

### Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit [www.exxonmobil.com](http://www.exxonmobil.com)

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