



## DIOL™ 11 RD Series

Mobil Commercial Vehicle Lube , Barbados

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, ppm, 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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