

CITGO RD-2069 LE DIESEL ENGINE OIL



Date 04/18

DESCRIPTION: CITGO RD-2069 LE Diesel Engine Oil is a new generation railroad diesel engine oil that supports the EPA Tier 4 emissions requirements and is performance engineered for use in railroad locomotive diesel engines and other medium-speed stationary and marine diesel engines of similar design. CITGO RD-2069 LE Diesel Engine Oil is approved for LMOA Generation 7 (supersedes the performance requirements of LMOA Generation 6). The CITGO RD-2069 LE Diesel Engine Oil utilizes the Oronite OLOA 42015 additive system.

- QUALITIES:**
- Improved detergent/dispersent dramatically improves cleanliness
 - Superior oxidation and nitration thermal stability inhibition prevents excessive viscosity increase
 - 11 TBN designed for low and ultra-low sulfur fuels
 - Non-zinc formulation to protect silver bearing materials
 - Non-chlorinated to reduce used oil recycling costs
 - High viscosity index base in oil provides:
 - better oxidation resistance
 - good low-temperature performance
 - Outstanding protection from deposits
 - Maximum oil drain intervals
 - Enhanced particulate matter emissions control
 - Improved fuel economy versus single grade engines oils
 - Better start up cold temperature lubrication versus single grade engine oils

- PERFORMANCE CAPABILITIES:**
- LMOA Generation 7 (Supersedes LMOA Generation 6)

APPLICATIONS: CITGO RD-2069 LE Diesel Engine Oil meets the performance for General Electric Transportation (GE) for Tier 4 locomotives and older models as well as Electro-Motive Division (EMD) Tier 3 locomotives and older models. This oil is formulated with the latest generation of additive technology advancements with a proven track record of providing superior lubrication in a variety of diesel engines used in coastal and inland marine service.

Consult owner's manual for proper lubricant selection.

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TYPICAL PROPERTIES:**CITGO RD-2069 LE DIESEL ENGINE OIL**

SAE Grade	20W-40
Material Code	649281001
Gravity, ASTM D4052, °API	28.7
Gravity, ASTM D1298, Specific 60/60°F	0.8820
Density, lbs/gallon	7.34
Flash Point, ASTM D92, COC, °F (°C)	496 (258)
Viscosity, ASTM D445, cSt at 40°C	140
cSt at 100°C	15.2
Viscosity Index, ASTM D2270	110
ASTM D5293, CCS, cP at -15°C	7,800
Pour Point, ASTM D97, °F (°C)	-27 (-33)
Color, ASTM D1500	L4.5
Sulfated Ash, ASTM D874, m%	1.15
Total Acid No., ASTM D664, mg KOH/g	0.7
Total Base No., ASTM D2896, mg KOH/g	11
Zinc, ppm	<10
Chlorine, ppm	<50

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