

CITGO RD - 943 (SAE 40)  
DIESEL ENGINE OIL



Date 01/08

**DESCRIPTION:** CITGO RD-943 is a high dispersancy, high alkalinity engine oil intended for use in railroad locomotive type diesel engines and other medium-speed stationary and marine diesel engines of similar design. It meets the LMOA Generation V (GE Generation IV Long Life) quality requirements. The HiTec 6888 additive system is utilized.

- QUALITIES:**
- High detergent/dispersant assures engine cleanliness
  - Superior oxidation inhibition prevents excessive viscosity increase
  - 13 TBN with excellent TBN retention to combat high-sulfur fuels
  - Non-zinc formulation to protect silver bearing materials
  - Non-chlorinated to reduce used oil recycling costs
  - High viscosity index base oils for:
    - better oxidation resistance
    - good low-temperature performance
  - Outstanding protection from deposits
  - Maximum oil drain intervals even when utilizing high-sulfur fuel

- PERFORMANCE CAPABILITIES:**
- LMOA Generation V
  - EMD approved for Pointers Listing
  - GE Generation IV Long Life
  - API CF, CD
  - API CF-2

**APPLICATIONS:** CITGO RD-943 oil meets the specifications of the major railroad diesel engine builders including General Electric and Electro-Motive Division (EMD) of General Motors. It also meets the requirements of the manufacturers of many large medium-speed diesel engines used in oilfield and other area power generation units. CITGO RD-943 provides superior lubrication of most diesel engines used in inland marine service in towboats and work boats.

General Electric diesel	EMD diesel
ALCO diesel	Caterpillar 3600 Marine
Detroit Diesel 149 Series	Superior diesel
Enterprise diesel	Sulzer diesel
Baldwin-Lima-Hamilton	Colt Pielstick
Fairbanks-Morse diesel	

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**TYPICAL PROPERTIES:**

**CITGO RD-943 DIESEL ENGINE OIL**

<b>SAE Grade</b>	<b>40</b>
Material Code	649044001
Gravity, ASTM D 4052, °API,	27.1
Gravity, ASTM D 1298, Specific 60/60°F	0.892
Density, lbs./gallon	7.43
Flash Point, ASTM D 92, °F (°C)	532 (278)
Viscosity, ASTM D 445, cSt at 40°C	155
cSt at 100°C	15.2
Viscosity Index, ASTM D 2270	98
Pour Point, ASTM D 97, °F (°C)	+10 (-12)
Color, ASTM D 1500	4.0
Sulfated Ash, ASTM D 874, m%	1.4
Total Acid No., ASTM D 664, mg KOH/g	1.3
Total Base No., ASTM D 2896, mg KOH/g	13.3
Zinc, ppm	<10
Chlorine, ppm	<100