

CITGO RD-919 (SAE 40) AND RD-1019  
(SAE 20W-40) DIESEL ENGINE OILS

Date 04/12

**DESCRIPTION:** CITGO RD-919 and RD-1019 are high dispersancy, reduced ash engine oils intended for use in railroad locomotive diesel engines and other medium-speed stationary and marine diesel engines of similar design. They meet the LMOA Generation V (GE Generation IV Long Life) quality requirements. The Oronite OLOA 40000 additive system is utilized.

- QUALITIES:**
- Improved detergent/dispersent dramatically improves cleanliness
  - Superior oxidation and thermal stability inhibition prevents excessive viscosity increase
  - 9 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 both oils for:
    - better oxidation resistance
    - good low-temperature performance
  - Outstanding protection from deposits
  - Maximum oil drain intervals
  - Enhanced particulate matter emissions control

- PERFORMANCE CAPABILITIES:**
- LMOA Generation V
  - EMD approved for Pointers Listing
  - GE Generation IV Long Life

**APPLICATIONS:** These oils meet the specifications of the major railroad diesel engine builders including General Electric and Electro-Motive Division (EMD) of General Motors Corporation. They also meet the requirements of the manufacturers of many large medium-speed diesel engines used in marine and stationary service. They provide superior lubrication of most diesel engines used in inland marine service in towboats and work boats.

General Electric diesel	EMD diesel
ALCO diesel	Enterprise diesel
Fairbanks-Morse diesel	Superior diesel
Colt Pielstick	Sulzer diesel
Baldwin-Lima-Hamilton	

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Date 04/12 - (Continued)

## TYPICAL PROPERTIES:

## CITGO RD-919 AND RD-1019 DIESEL ENGINE OILS

Product	RD-919	RD-1019
<b>SAE Grade</b>	<b>40</b>	<b>20W-40</b>
Material Code	649079001	649279001
Gravity, ASTM D 287, °API	27	27.29
Gravity, ASTM D 1298, Specific 60/60°F	0.8833	0.8800
Density, lbs./gallon	7.47	7.43
Flash Point, ASTM D 92, COC, °F (°C)	514 (268)	471 (244)
Viscosity, ASTM D 445, cSt at 40°C	141.2	129.9
cSt at 100°C	14.48	14.78
Viscosity Index, ASTM D 2270	101	115
Cold Crank Simulator, ASTM D 5293, cP at -15°C	—	8,155
Pour Point, ASTM D 97, °F (°C)	16 (-9)	16 (-9)
Color, ASTM D 1500	L6.5	L6.0
Total Base No., ASTM D 2896, mg KOH/g	9.0	9.0
Zinc, ppm	<10	<10
Chlorine, ppm	<50	<50