CITGO® RD-969 and RD-1069 Diesel Engine Oils



OVERVIEW



- 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.
- Meet the LMOA Generation 6 (GE Generation IV Long Life) quality requirements with the Oronite OLOA 40000 additive system.

FEATURES & BENEFITS



- Improved detergent/dispersant dramatically improves cleanliness, with outstanding protection from deposits.
- Superior oxidation inhibition and thermal stability prevent excessive viscosity increase.
- 9 TBN designed for low and ultra-low sulfur fuels.
- Non-zinc formulation protects silver bearing materials.
- Non-chlorinated to reduce cost of recycling used oil.
- High viscosity index base oils in both grades improve oxidation resistance and low-temperature performance.
- Maximum oil drain intervals.
- Enhanced particulate matter emissions control.
- Performance capabilities:
 - LMOA Generation 6
 - EMD approved for Pointers Listing
 - GE Generation IV Long Life

APPLICATIONS



- Meet the specifications of the major railroad diesel engine builders including General Electric and Progress Rail, a Caterpillar company (formerly EMD).
- Meet the requirements of the manufacturers of many large medium-speed diesel engines used in marine and stationary service.
- Provide superior lubrication of most diesel engines used in inland marine service in towboats and work boats.

Recommended for:

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

PROPERTIES



Typical Properties for CITGO RD-969 and RD-1069 Diesel Engine Oils:

| Product | RD-969 | RD-1069 |
|---------------------------------------|-----------|-----------|
| SAE Grade | 40 | 20W-40 |
| Material Code | 649069001 | 649269001 |
| Gravity, ASTM D4052, °API | 28.7 | 29.3 |
| Gravity, ASTM D1298, Specific 60/60°F | 0.8833 | 0.8800 |
| Density, lbs./gallon | 7.35 | 7.33 |
| Flash Point, ASTM D92, COC, °F (°C) | 518 (270) | 482 (250) |
| Viscosity, ASTM D445 | | |
| cSt at 40°C | 144 | 134 |
| cSt at 100°C | 14.8 | 15.1 |
| Viscosity Index, ASTM D2270 | 102 | 116 |
| ASTM D5293, CCS, cP at -15°C | | 6,800 |
| Pour Point ASTM D97, °F (°C) | 0 (-18) | -11 (-24) |
| Color, ASTM D1500 | D8 | D8 |
| Sulfated Ash, ASTM D874, m% | 1.0 | 1.0 |
| Total Acid No., ASTM D664, mg KOH/g | 0.2 | 0.2 |
| Total Base No., ASTM D2896, mg KOH/g | 9.0 | 9.0 |
| Zinc, ppm | <10 | <10 |
| Chlorine, ppm | <50 | <50 |

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