

## CD 50 Synthetic Transmission Fluid

### PRODUCT DESCRIPTION

Bel-Ray® CD 50 Synthetic Transmission Fluid is a premium, full-synthetic transmission fluid specifically designed for use in heavy-duty manual transmissions in over-the-road trucks, buses and off-road equipment operating under severe conditions, extreme ambient temperatures, and utilizing extended service intervals. Formulated with proprietary synthetic base stocks and advanced additive technology, Bel-Ray CD 50 boasts outstanding thermal and oxidation stability to support extended drain intervals as defined by Eaton Roadranger and Dana Transmission 500,000-mile line-haul service. Bel-Ray CD 50 Synthetic Transmission Fluid meets and exceeds the performance requirements of API GL-1/MT-1.

### PRODUCT FEATURES

- Formulated with premium base stocks for maximum resistance to thermal breakdown
- Provides active anti-wear agents to protect critical transmission components, including synchronizers
- Delivers maximum resistance to fluid oxidation in severe operating conditions, including stop-and-go driving
- Advanced friction modifiers provide smooth shifting performance

### BENEFITS

- Extended service wear protection for critical transmission components
- Excellent frictional properties and low-temp performance for smooth shifting
- Optimum performance under heavy load
- Maximum protection against transmission varnish and sludge formation
- Superior thermal stability and oxidation resistance to support extended service intervals
- Optimizes fuel economy when compared to conventional manual transmission fluids
- Maximizes manual transmission's operational life

### APPLICATIONS

Bel-Ray CD 50 Synthetic Transmission Fluid is recommended for the following heavy-duty manual transmission requirements:

- U.S. Military MIL-2104D & MIL-L-46152B
- Eaton Roadranger (Eaton Fuller) PS-164 (E500), PS-081 (E250) & REV 7
- Dana Spicer
- ArvinMeritor O-81
- International TMS 6816
- Mack TO-A Plus
- ZF Freedomline

#### DISTRIBUTED BY:

Calumet Branded Products, LLC  
1060 N Capitol Ave  
Suite 6-401  
Indianapolis, IN 46204  
Technical Services: 317-328-5660  
www.belray.com

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# TECHNICAL DATA SHEET



## PRODUCT DATA

| Typical Properties                                 |             |           |
|----------------------------------------------------|-------------|-----------|
| Property                                           | Test Method |           |
| Density @ 15°C (g/mL)                              | ASTM D4052  | 0.845     |
| API Gravity @ 60°F                                 | ASTM D4052  | 35.97     |
| Viscosity @ 40°C (cSt)                             | ASTM D445   | 127       |
| Viscosity @ 100°C (cSt)                            | ASTM D445   | 20.4      |
| Viscosity Index                                    | ASTM D2270  | 185       |
| Flash Point, °C (°F)                               | ASTM D92    | 208 (406) |
| Pour Point, °C (°F)                                | ASTM D97    | -45 (-49) |
| Brookfield Viscosity @ -40°C (cP)                  | ASTM D2983  | 9,258     |
| Copper Corrosion, 3 h @ 100°C (Rating)             | ASTM D130   | 1b        |
| Foam Test, Sequence II, Tendency/Stability (mL/mL) | ASTM D892   | 0/0       |
| Zinc (Wt %)                                        | ASTM D6481  | <0.001    |

## HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at [www.belray.com](http://www.belray.com)

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