

## NORDIC RAIL ROAD MOTOR OIL

### Diesel Locomotive Engine Oil

**NORDIC RAIL ROAD MOTOR OIL** is a high performance, zinc-free and chlorine-free oil specially designed to provide excellent engine cleanliness and oil filter life in the modern railroad diesel locomotive engines.

**NORDIC RAIL ROAD MOTOR OIL** is based on high quality virgin mineral base oil in combination with an unique additive package to ensure the following properties:

- Exceptional detergency and dispersancy provides excellent engine cleanliness, especially engine top decks.
- Excellent retention of TBN facilitates extended drain intervals.
- High thermo-oxidative.
- Zinc-free formulation protects silver bearings against corrosion.
- Non-chlorinated additive package helps in reducing used oil disposal costs.

**NORDIC RAIL ROAD MOTOR OIL** exceeds the following performance criteria:

API CF / CF-2                      LMOA Generation 5                      EMD of General Motors  
GE as Generation 4 Long Life Oils                      GE Diesel Engines

### Typical Analysis

| Properties            | Unit               | Method     | Typical Value |
|-----------------------|--------------------|------------|---------------|
| SAE Grade             |                    | SAE J 300  | 40            |
| Density @15°C         | kg/m <sup>3</sup>  | ASTM D4052 | 898           |
| Kin. Viscosity @40°C  | mm <sup>2</sup> /s | ASTM D7042 | 150           |
| Kin. Viscosity @100°C | mm <sup>2</sup> /s | ASTM D7042 | 15.1          |
| Viscosity Index       |                    | ASTM D2270 | 102           |
| Flash Point COC       | °C                 | ASTM D92   | >201          |
| Pour Point            | °C                 | ASTM D97   | -18           |
| Total Base Number     | mgKOH/g            | ASTM D2896 | 13,9          |
| Sulphated Ash         | %Wt                | ASTM D874  | 1.5           |

|                         |             |                 |
|-------------------------|-------------|-----------------|
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