

Product Code:

# 7104

# TS-4 SHPD

## Universal truck engine oil

Meets the requirements:

SAE 15W-40, API CI-4/SL, ACEA E7, A3/B4, JASO DH-1, VOLVO VDS-3, MAN M 3275, MB 228.3/229.1, MTU DDC Type 2, MACK EO-N/EO-M Plus, RENAULT VI RLD-2, CUMMINS CES 20078, CATERPILLAR ECF-2/ECF-1-a, GLOBAL DHD-1, DETROIT DIESEL PGOS 93K215, DEUTZ DQC III-05

MANNOL TS-4 SHPD is a special high-quality Super High Performance Diesel (SHPD) engine oil on a mineral basis for heavily loaded diesels of lorries and regular buses. Provides safe engine combustion at extreme loads and perfect protection from wear-out and corrosion. Thanks to special additives it has a low congelation temperature and provides easy cold cranking. Good detergent and dispersive properties provide perfect cleanliness and safe lubrication of the engine components.

### Product Characteristics:

| Test               | Method | Unit              | Result |
|--------------------|--------|-------------------|--------|
| Density at 15°C    | D 1298 | kg/m <sup>3</sup> | 890    |
| Viscosity at 40°C  | D 445  | CSt               | 94,58  |
| Viscosity at 100°C | D 445  | CSt               | 14,14  |
| Viscosity at -20°C | D 5293 | CP                | 5929   |
| Viscosity index    | D 2270 |                   | 154    |
| Flash point COC    | D 92   | °C                | 226    |
| Pour point         | D 97   | °C                | -45    |
| TBN                | D 2896 | gKOG/kg           | 10,97  |

### Volume:

|     |           |       |            |
|-----|-----------|-------|------------|
| 1L  | MN7104-1  | 20L   | MN7104-20  |
| 5L  | MN7104-5  | 60L   | MN7104-60  |
| 7L  | MN7104-7  | 208L  | MN7104-DR  |
| 10L | MN7104-10 | 1000L | MN7104-IBC |



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