

Product Code:

# 7101

# TS-1 SHPD

## Universal truck engine oil

Meets the requirements:

SAE 15W-40, ACEA E7, A3/B4, API CH-4/SL,  
MAN M 3275, MB 228.3, 229.1, MTU DDC Type 2,  
VOLVO VDS-2

MANNOL TS-1 SHPD is a special Super High Performance Diesel high quality engine oil with mineral basis for Heavy Goods Vehicles (HGV's), busses and other high load equipment. Provides safe engine combustion at extreme loads and perfect protection from the components wear out and corrosion. Thanks to low congelation temperature provides easy cold cranking. Good detergent and dispersive properties provide perfect cleanness and safe lubrication of the engine components. Prolongs the interval between oil changes (according to the producer's instructions).

### 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	108,47
Viscosity at 100°C	D 445	CSt	14,65
Viscosity at -25°C	D 5293	CP	6250
Viscosity index	D 2270		139
Flash point COC	D 92	°C	230
Pour point	D 97	°C	-33
TBN	D 2896	gKOG/kg	8,20

### Volume:

5L	MN7101-5	60L	MN7101-60
10L	MN7101-10	208L	MN7101-DR
20L	MN7101-20	1000L	MN7101-IBC



[www.mannol.de](http://www.mannol.de)

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