

Product Code:

# 7109

# TS-9 UHPD NANO

Semi-synthetic truck engine oil

Meets the requirements:

SAE 10W-40, ACEA E7, API CI-4/SL, GLOBAL DHD-1, CATERPILLAR ECF-2, DEUTZ DQC III-10, CUMMINS CES 20076/CES 20077/CES 20078, MACK EO-N, EO-M Plus, MAN M 3275, MB 228.3, MTU DDC Type 2, RENAULT RLD-2, VOLVO VDS-3

MANNOL TS-9 UHPD Nano is a semi-synthetic Ultra High Performance Diesel engine oil with remarkable tribological properties. Uses the excellent properties of specially selected nano-additives to minimize friction on working metal surfaces by the coating and bearing effect. MANNOL TS-9 UHPD Nano was designed to reduce fuel consumption and increase the life of motors as well as reduction of friction. Intended for truck fleet operators, seeking the best available lubricating oil technology, in order to meet the increasingly stringent emission limits that are imposed on diesel engines in Europe.

Product Characteristics:

Test	Method	Unit	Result
Density at 15°C	D 1298	kg/m <sup>3</sup>	870
Viscosity at 40°C	D 445	CSt	100
Viscosity at 100°C	D 445	CSt	14,20
Viscosity at -25°C	D 5293	CP	7000
Viscosity index	D 2270		145
Flash point COC	D 92	°C	226
Pour point	D 97	°C	-42
TBN	D 2896	gKOG/kg	10,67

Volume:

10L	MN7109-10	208L	MN7109-DR
20L	MN7109-20	1000L	MN7109-IBC
60L	MN7109-60		



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

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# MANNOL®