Technical Data for:

MARA TOP TIR LD 10W-40

Description:
MARA TOP TIR LD 10W-40 is semi-synthetic SHPD oil for diesel engines in heavy-load vehicles and machinery, providing superior lubrication and extended service life. Suitable for the latest EGR system engines but not for DPF particulate filters.

Benefits:
- Formulated for long-lasting performance, reducing the frequency of oil changes
- Reduces engine wear, making it suitable for high-mileage or demanding driving conditions

Specifications and approvals:

ACEA E7-12
API CI-4
API CH-4
API CG-4
API CF-4
API CF
API SL
MB 228.3
Volvo VDS-3
Renault Truck RLD-2
Mack EO-N
Mack EO-M Plus
MAN M 3275
Cummins CES 20076
Cummins 20077
Cummins 20078
CAT ECF-1a
CAT 2
MTU Type 2
Deutz DQC III-10
Detroit Diesel DDC 93K215
Global DHD-1

Typical characteristics:

Test	Method	Unit	Results
Density at 15 °C	ASTM D 4052	[g/cm³]	0,80-0,90
Kinematic viscosity at 40 °C	ASTM D 445	[mm²/s]	90-110
Kinematic viscosity at 100 °C	ASTM D 445	[mm²/s]	12,5-16,3
Viscosity index	ASTM D 2270	-	> 140
Pour point	ASTM D 97	[°C]	< -30
Flash point (Cleveland)	ASTM D 92	[°C]	> 210
T.B.N.	ASTM D 2896	mg KOH/g	> 9

The values provided are for informational purposes only. The exact values for a specific batch are available on the Certificate of Analysis (CoA).

Storage:
Please store in a well-ventilated, dry, and cool area, away from direct sunlight and out of reach of children. Additional information can be found in the safety data sheet.