10.02.2025
v1

Technical Data for:

MARA TOP TIR LS 10W-40

Description:
MARA TOP TIR LS 10W-40 is synthetic XHPD oil for high-performance diesel engines, suitable for vehicles meeting EURO IV-VI standards. Enhances low-temperature fluidity, maintains viscosity at high temperatures and improves fuel efficiency. Its low ash content benefits exhaust systems, including those with DPFs.

Benefits:
- Prevents oil breakdown and sludge formation, which can protect engine components over extended periods
- Ideal for vehicles equipped with DPFs and catalytic converters
- Protects against engine wear by forming a strong, stable film over engine components, even under heavy loads or extended idling conditions

Specifications and approvals:

API CK-4	CAT 2	Ford WSS-M2C171-F1
API CJ-4	CAT 1a	Scania LA-2
API CI-4+	MTU 3.1	Scania LA
API CH-4	MTU 2.1	Scania LDF
API CF	MAN 3677	Deutz DQC IV-10 LA
API SN	MAN M3575	Deutz III-10 LA
API SM	MAN M3477	Detroit Diesel DFS 93K222
API SL	MAN M3271-1	Detroit 93K218
ACEA E6	Cummins CES 20086	Renault RLD-4
ACEA E7	Cummins 20081	Renault RLD-3
ACEA E9	DAF Extended Drain	IVECO TLS E9
JASO DH-1, DH-2, DHD-1	Volvo VDS-4.5	MACK EOS 4.5
MB 228.51	Volvo VDS-4.0	MACK EO-OPP
MB 228.31	Volvo VDS-3	
CAT ECF-3	Volvo CNG	

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).

Produced under licence of Mapetrol
Linhartova ulica 17A, 2000 Maribor, Slovenia, EU // lab@mapetrol.si // +386 2 230 28 80

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.

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