

Eni i-Sigma top MS 10W-40



APPLICATIONS

Eni i-Sigma top MS 10W-40 is a synthetic technology engine oil that collects the experience and knowledge acquired, in many decades, in the lubricants sector from Eni research. The product is expressly designed to meet the lubrication requirements of latest generation of Heavy Duty Diesel engines, equipped with exhaust after treatment devices.

It is a lubricant formulated with "low SAPS" (Sulphated Ash, Phosphorus, Sulfur) additive technology able to ensure maximum engine reliability.

It can be used also in heavy-duty natural gas vehicles.

CUSTOMER ADVANTAGES

- **Eni i-Sigma top MS 10W-40** is a high-performance lubricant suitable to meet the severe conditions required by the Heavy Duty engines that equip: trucks, buses, construction equipment and agricultural vehicles. It is the result of a balanced base oils formulation and latest "low SAPS" (Sulphated Ash, Phosphorus, Sulfur) additive technology.
- The product guarantees the best engine protection and, at the same time, it maintains a very resistant oil film even in the harsh operating conditions.
- Another distinctive element of the product is ability to maintain its properties unaltered throughout the time of use; in particular, its resist the deterioration caused to oxidation phenomena.
- **Eni i-Sigma top MS 10W-40** uses an additives package expressly developed to give the product the necessary properties to reduce wear phenomena.
- The product is formulated with a suitable Heavy Duty additive package, ensures superior performance, engine protection and durability.
- **Eni i-Sigma top MS 10W-40** is suitable for use in those applications for which the Daimler Truck manufacturer requires the DTFR 15C100 and DTFR 13D110 performance claims.

SPECIFICATIONS

- ACEA E7, E8, E11
- ACEA E6, E9
- API CK-4



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- Caterpillar ECF-3
- Cummins CES 20086
- Detroit Diesel 93K222
- JASO DH-2
- MAN meets M 3477
- Voith Retarder Oil Class B
- Deutz DQC IV-18 LA (Approved)
- DTFR 15C110
- DTFR 15C120
- MACK EO-S-4.5 (Approved)
- MAN M 3775 (Approved)
- MTU type 3.1 (Approved)
- Renault VI RLD-3 (Approved)
- Volvo VDS-4.5 (Approved)

CHARACTERISTICS

Properties	Method	Unit	Typical
Density at 15°C	ASTM D 4052	kg/m ³	863
Viscosity at 100°C	ASTM D 445	mm ² /s	14.3
Viscosity at 40°C	ASTM D 445	mm ² /s	98
Viscosity Index	ASTM D 2270	-	150
Viscosity at -25°C	ASTM D 5293	mPa·s	6400
Pour point	ASTM D 5950	°C	-48
Flash point COC	ASTM D 92	°C	224
B. N.	ASTM D 2896	mg KOH/g	11.0

