

# Eni i-Sigma top MS 10W-30



## APPLICATIONS

**Eni i-Sigma top MS 10W-30** is a synthetic technology oil for lubricating new generation diesel engines of vehicles equipped with exhaust gas post treatment systems operating under severe operating conditions with fuel saving features. This product allows the maximum oil change intervals foreseen by the manufacturers.

It can also be used in diesel engines of stationary engines and in heavy duty gas engines.

## CUSTOMER ADVANTAGES

- It is an engine oil that responds to the most severe performance levels required for heavy traction, the result of a combination of a special synthetic formulation and new "low SAPS" additive technology.
- To ensure the effectiveness and durability of post-treatment systems, the lubricant formulation must not contain products which may have a negative impact and therefore the content of certain components (Sulphated Ash, Phosphorus, Sulfur) must be controlled. From this point of view, it adopts an innovative formulation technology precisely in compliance with the chemical limits imposed by international specifications and manufacturers.
- 'Fuel efficiency' allows much greater fuel savings than conventional lubricants. Engine life and efficiency are ensured by the high wear protection (bore polishing), high detergency and low evaporation losses.
- It has demonstrated excellent anti-wear properties in the tests required by the manufacturers and by ACEA, in particular minimizing wear on the cylinders (bore polishing), elastic bands, valves, etc. All metallic surfaces are effectively protected against wear and corrosion by ensuring and maintaining the maximum engine efficiency over time, allowing extended change and maintenance intervals.

## SPECIFICATIONS - APPROVALS

- API CK-4
- ACEA E9
- MB-Approval 228.31
- Volvo VDS-4.5



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- MACK EO-S-4.5
- Renault VI RLD-3
- Detroit Diesel 93K222
- Caterpillar ECF-3
- MTU type 2.1
- Deutz DQC III-10 LA
- MAN M 3575
- JASO DH-2
- Cummins CES 20086

## CHARACTERISTICS

Properties	Method	Unit	Typical
Density at 15°C	ASTM D 4052	kg/m <sup>3</sup>	870
Viscosity at 100°C	ASTM D 445	mm <sup>2</sup> /s	11.5
Viscosity at 40°C	ASTM D 445	mm <sup>2</sup> /s	78.5
Viscosity Index	ASTM D 2270	-	139
Viscosity at -25°C	ASTM D 5293	mPa·s	6300
Flash point (COC)	ASTM D 92	°C	235
Pour point	ASTM D 97	°C	-24
B. N.	ASTM D 2896	mg KOH/g	9.7



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