

# Eni i-Sigma top MS 5W-30



## APPLICATIONS

**Eni i-Sigma top MS 5W-30** is a latest generation high-performance top synthetic technology oil suitable for lubrication of diesel engines of commercial vehicles equipped with exhaust gas aftertreatment systems and previous engines, operating under severe conditions.

It allows the maximum oil change intervals foreseen by the manufacturers, it has very high fuel economy characteristics and facilitates engine startup in cold weather.

## 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 Ashes, 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 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.
- The very high technological quality of the synthetic bases used and its particularly innovative formulation guarantee excellent cold starts.
- 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 CJ-4
- ACEA E4, E6, E7, E9



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- Volvo VDS-4
- MACK EO-O Premium Plus
- Caterpillar ECF-3
- Cummins CES 20081
- Scania Low Ash
- Detroit Diesel 93K218
- Deutz DQC IV-10 LA
- MB-Approval 228.51, 228.31
- MAN M 3677, M 3477, M 3575, M 3271-1
- MTU type 3.1
- Renault RVI RLD-3
- Scania LDF-4

## CHARACTERISTICS

Properties	Method	Unit	Typical
Density at 15°C	ASTM D 4052	kg/m <sup>3</sup>	860
Viscosity at 100°C	ASTM D 445	mm <sup>2</sup> /s	10.9
Viscosity at 40°C	ASTM D 445	mm <sup>2</sup> /s	70
Viscosity Index	ASTM D 2270	-	160
Flash point (COC)	ASTM D 92	°C	235
Flash point (PM)	ASTM D 93	°C	220
Pour point	ASTM D 97	°C	-39
B. N.	ASTM D 2896	mg KOH/g	12.5
Viscosity at -30°C	ASTM D 5293	mPa·s	6300

