



## eni i-Sigma top MS 5W-30

**eni i-Sigma top MS 5W-30** is a high-performance engine oil of the latest generation with top synthetic technology for highest loads commercial vehicles, especially for vehicles with new diesel engine equipped with exhaust gas after-treatment systems (i. e. with exhaust gas standard VI under consideration of the manufacturer specifications).

It allows the maximum oil drain intervals required by manufacturers and it also guarantees very high fuel economy.

**eni i-Sigma top MS 5W-30** guarantees excellent cold starting properties and the fastest lubrication of engines also at very low ambient temperatures.

### Characteristics (typical figures):

eni i-Sigma top MS	Unit	5W-30
Density at 15 °C	kg/m <sup>3</sup>	860
Viscosity at 100 °C	mm <sup>2</sup> /s	10,9
Viscosity at 40 °C	mm <sup>2</sup> /s	70
Viscosity Index	-	160
Viscosity at -30 °C	mPa·s	6300
Flash Point COC	°C	235
Pour Point	°C	-39
BN	Mg KOH/g	12,5

### Properties and Performance:

- **eni i-Sigma top MS 5W-30** meets the highest performance class for heavy duty diesel engines by the special coordination of synthetic technology and new "low SAPS" additives. To ensure a long service time of after-treatment systems any negative influence of the engine oil has to be excluded. Therefore the content of some lubricant components and characteristics (**Sulphated Ashes, Phosphorus, Sulphur**) has to be controlled. In this respect, **eni i-Sigma top MS 5W-30** adopts a special innovative formulation in order to comply with specific chemical limitations posed by some OEMs and international specifications.
- The fuel efficiency properties allow a greater fuel saving in comparison with other conventional multigrade diesel oils. The maximum efficiency and life span of the engine is ensured by the high safety from "bore-polishing", the optimum detergent effect of the oil and the low evaporation losses.
- The highest quality of the synthetic base stocks used and the innovative formulation lets **eni i-Sigma top MS 5W-30** suitable for any weather condition insuring excellent cold starting.
- **eni i-Sigma top MS 5W-30** provides outstanding engine protection. This is documented by OEMs and ACEA performance tests results, which include evaluation against bore polishing, piston ring, liner, valve train and bearing wear resistance, as well as engine cleanliness and soot protection. This minimizes down time, reduces operation and maintenance costs and allows better performance through engine life.



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## Specifications:

**eni i-Sigma top MS 5W-30** has been officially approved or meets the specifications of the following engine manufacturers or organisations:

- API CJ-4
- ACEA E4, E6, E7, E9
- MB approval 228.51
- MB approval 228.31
- MAN M3677, M3477
- MAN M3575, M3271-1
- MTU Type 3.1
- VOLVO VDS-4
- Cat ECF-3
- Renault RLD-3
- Deutz DQC IV-10 LA
- Scania Low Ash
- Scania LDF-4
- Mack EO-O PP
- Cummins CES 20081
- Detroit Diesel 93K218