



## eni i-Sigma monograde

**eni i-Sigma monograde** is a lubricant series for diesel engines operating under very severe duty or which are subject to deposit formation or excessive wear due to design characteristics or to the fuel employed.

These lubricants are formulated from a top quality base stock of high Viscosity Index (in their category) and low pour point treated with a large percentage of additives to impart superior detergency together with high dispersant, antioxidant, anticorrosion, antiwear and antifoam properties.

The SAE 10W-20 grade is also suitable for use in the hydraulic systems of tractors, loaders, bulldozers, etc., requiring this type of oil.

### CHARACTERISTICS (TYPICAL FIGURES)

SAE Grade		10W-20	30	40	50
Density at 15°C	kg/m <sup>3</sup>	869	890,40	895	899
Viscosity at 40°C	mm <sup>2</sup> /s	44	110	165	265
Viscosity at 100°C	mm <sup>2</sup> /s	6.6	11.8	15.7	21.2
Viscosity at -25°C	mPa.s	6700	-	-	-
Viscosity Index	-	110	105	105	105
Flash Point COC	°C	225	230	235	245
Pour Point	°C	-30	-21	-18	-15

### PROPERTIES AND PERFORMANCE

- **eni i-Sigma monograde** series has excellent detergency, making it particularly suitable for use in supercharged engines. It also has high dispersant properties. The lubricant is thus very resistant to the formation of lacquer and varnish, as well as sludge and other engine deposits. It helps prevent ring sticking and keeps pistons clean, while maintaining potential deposits in suspension.
- It has marked resistance to deterioration, especially that caused by oxidation due to prolonged high-temperature operation in the presence of air and other agents.
- It has particularly good anticorrosion properties which effectively protect the engine from corrosion by combustion moisture and acids.
- Its antiwear properties ensure long life of moving parts and greatly reduce the need for engine servicing and overhauls.

### SPECIFICATIONS

**eni i-Sigma monograde** meets the requirements of the following specifications:

- API CF/SJ
- US Department of the Army MIL-L-2104D
- US Department of the Army MIL-L-46152C