

**eni i-sigma ID** is an API CD/SF, lubricant for high output diesel engines including supercharged units. It is formulated from high quality base stock of high viscosity index treated with a large percentage of additives to impart superior detergency together with high dispersant, antioxidant, antiwear and antifoam properties.

The SAE grade 10W is also suitable to be employed in hydraulic circuits of various equipment (earthmovers, loaders, etc) where an engine oil of such a viscosity grade is prescribed.

### CHARACTERISTICS (TYPICAL FIGURES)

eni i-sigma ID		10W	30	40	50
SAE Grade		10W	30	40	50
Appearance	-	B & C	B & C	B & C	B & C
Density at 15°C	kg/L	0.867	0.877	0.887	0.892
Viscosity at 100°C	cSt	5.8	11.4	15.3	19.2
Viscosity at 40°C	cSt	33.6	92.3	147.3	215
Viscosity Index	-	115	112	106	101
Flash Point COC	°C	236	238	246	248
Pour Point	°C	-28	-21	-21	-15
Total Base Number	mgKOH/g	5	11	11	11

### PROPERTIES AND PERFORMANCE

- **eni i-sigma ID** has superior detergency and is particularly suitable for supercharged diesel engines. It also has good dispersant properties. The lubricant thus minimizes the formation of lacquer and varnish, as well as sludge and other engine deposits; helps prevent ring sticking, and keep pistons clean while maintaining potential deposits in suspension.
- Its anticorrosion properties effectively protect the engine from corrosion by combustion moisture and acids.
- Its anti-wear properties ensure long life of moving parts and greatly reduce the need for engine servicing and overhauls.
- 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.
- Its antifoam properties prevent the formation of air bubbles that could adversely affect lubricant film continuity.

### APPLICATIONS

**eni i-sigma ID** is specifically designed and formulated for:

- 4 stroke diesel engines, includes supercharged, turbocharged and heavy equipment engines such as bulldozer, wheel loader, motor grader, tractors etc.
- Static and marine diesel engines.
- Hydraulic system for heavy equipment, dump truck, forklift etc. (SAE 10W)

## SPECIFICATIONS

**eni i-sigma ID** meets the requirements of API CD/SF specification