

# AGIP CLADIUM 400



AGIP CLADIUM 400 is an API CD (series III) engine oil intended for use in four-stroke diesel engines operating with high-sulphur fuels, thus requiring a specially high TBN, and in particular running conditions. It is specifically recommended for application in four-stroke diesel engines operating on poor quality, high sulphur, residual fuels or frequently experiencing low temperatures in the piston-liner area.

AGIP CLADIUM 400 is also recommended for those applications where a single product is preferred to lubricate both engines operating on fuel oil and those running on diesel fuel.

## CHARACTERISTICS (TYPICAL FIGURES) AGIP CLADIUM 400

Characteristics	ASTM	Unit	SAE GRADE	
			30	40
Density at 15°C	D 4052	kg/l	0890	0.910
Viscosity at 100°C	D 445	mm <sup>2</sup> /s	11.5	15.3
Viscosity at 40°C	D 445	mm <sup>2</sup> /s	100	156
Viscosity Index	D 2270		102	99
Flash Point, COC	D 92	°C	240	240
Pour Point	D 97	°C	-9	-12
Base Number	D 2896	mg KOH/g	43	43

## PROPERTIES AND PERFORMANCES

- AGIP CLADIUM 400 has detergent-dispersant properties that effectively prevent the formation of lacquers, sludge, and deposits, thus keeping rings free and pistons clean.
- It has enough alkalinity reserve to efficiently combat the formation of acid mists resulting from the use of very-high sulphur fuel oils. This reserve is also particularly useful in engines exhibiting especially low oil consumption or operating at such low liner temperatures as to favour sulphuric acid condensation.
- Its anti-wear properties make this product also suitable to lubricate main engine reduction gear units.
- Its antifoam properties prevent the formation and entrainment of air bubbles.
- Its balanced dispersancy ensures a perfectly clean engine without hindering purification by centrifuging.
- Its high polarity provides superior protection of engine parts from attack by moisture and salinity.

## SPECIFICATIONS

- API SERVICE CD/SF
- MIL – L – 2104 E level
- MB 227.0 Quality
- CCMC D4

- CATERPILLAR 1G2
- CATERPILLAR TO-2
- CATERPILLAR 1M-PC
- ALLISON C-4

### APPLICATION

AGIP CLADIUM 400 is specifically designed to be used on static diesel and marine diesel engines using diesel oil or marine fuel oil with sulphur content less than 5.0 % wt and formulated to achieve optimum engine life.

### APPROVAL

AGIP CLADIUM 400 meets requirements of the API CD specification.

- Fincantieri - Divisione Grandi Motori
- Wärtsilä Diesel