Petroleum products

Diesel engine oil

For diesel engines requiring the stated API service category

SAE 40 · API CD



Material illustration

Technical characteristics

Diesel engine oil, SAE 40 · API CD, for equipment specifying this service level. Engines of the same displacement can require different oils because of their design and exhaust aftertreatment.

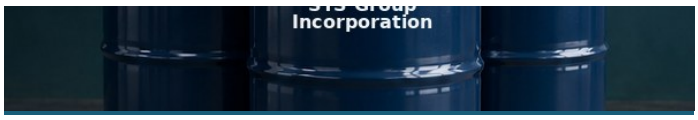
Property	Reference value	Method or source
Viscosity at 100 °C	**12.5 ≤ ν < 16.3 mm²/s**	SAE J300
Service category	**API CD**	API
HTHS · 150 °C	**≥ 3.7 mPa·s**	SAE J300
Kinematic viscosity	**ASTM D445**	ASTM D445

Under SAE J300 the kinematic viscosity band at 100 °C is 12.5 ≤ ν < 16.3 mm²/s. ASTM D445 measures this property. High-temperature, high-shear viscosity (HTHS) is a separate measurement. This monograde carries no separate W winter rating.



Applications

For diesel equipment specifying API CD and SAE 40. Fleet selection also depends on particulate filters, fuel requirements and the oil-change interval in the engine manual. This service category was developed for earlier engine generations. Modern equipment requires the level in its own manual.



Packaging and receipt

Packs suit individual service jobs and drums suit workshops with pump dispensing. IBCs or bulk delivery can be agreed for central stores. Each container is identified by fluid and lot.

For acceptance, check the agreed specification and the certificate of analysis (COA) for the delivered lot.