Petroleum products

Diesel engine oil

For diesel engines requiring the stated API service category

SAE 15W-40 · API CI-4



Material illustration

Technical characteristics

Diesel engine oil, SAE 15W-40 · API CI-4, for equipment specifying this service level. Engines of the same displacement can require different oils because of their design and exhaust aftertreatment.

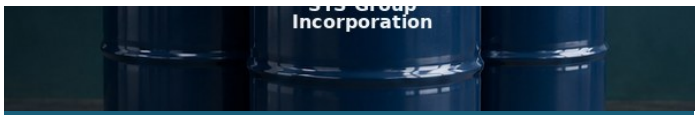
Property	Reference value	Method or source
Viscosity at 100 °C	**12.5 ≤ ν < 16.3 mm²/s**	SAE J300
Service category	**API CI-4**	API
Cold cranking (CCS)	**≤ 7000 mPa·s / −20 °C**	SAE J300
Low-temperature pumping (MRV)	**≤ 60 000 mPa·s / −25 °C**	SAE J300
HTHS · 150 °C	**≥ 3.7 mPa·s**	SAE J300
Kinematic 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. The 15W designation covers low-temperature cranking and pumpability tests.



Applications

For diesel equipment specifying API CI-4 and SAE 15W-40. Fleet selection also depends on particulate filters, fuel requirements and the oil-change interval in the engine manual. CI-4 addresses high-speed four-stroke diesel service with exhaust gas recirculation (EGR).



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.