Petroleum products

# Diesel engine oil

For diesel engines requiring the stated API service category

**SAE 10W-40 · API CI-4**



Material illustration

## Technical characteristics

Diesel engine oil, SAE 10W-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.

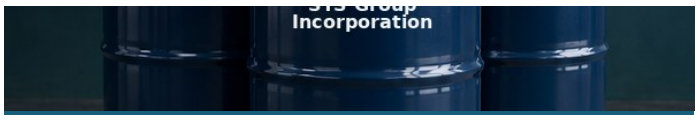
| Property | Reference value | Method or source |
|---|---|---|
| Viscosity at 100 °C | **12.5 ≤ ν < 16.3 mm²/s** | SAE J300 |
| Service category | **API CI-4** | API |
| Cold cranking (CCS) | **≤ 7000 mPa·s / −25 °C** | SAE J300 |
| Low-temperature pumping (MRV) | **≤ 60 000 mPa·s / −30 °C** | SAE J300 |
| HTHS · 150 °C | **≥ 3.5 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 10W designation covers low-temperature cranking and pumpability tests.



## Applications

For diesel equipment specifying API CI-4 and SAE 10W-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.