

Signature® Synthetic Blend HD Engine Oil 10W-30 is a premium synthetic blend designed to provide excellent performance in new advanced engines developed to meet the latest emissions and reliability standards and in engines equipped with features like four-valve heads, super-charging, turbo-charging, direct injection, higher power density, intercooling, full electronic management of fuel and emissions systems, exhaust selective catalytic reduction, exhaust gas recirculation, and exhaust particulate filters.

- Excellent oxidation and thermal stability to reduce sludge and deposits
- Designed for exceptional performance with ultra-low sulfur diesel (ULSD) and other low sulfur diesel fuels
- High performing additive chemistry to help extend the durability of critical engine parts
- Specially formulated for 2017 greenhouse gas (GHG 17) compliant diesel engines designed to meet lower CO₂ emissions and improved fuel economy
- Backwards compatible with all previous API Oil Service Categories and engine models

Applications:

Signature® Synthetic Blend HD 10W-30 is recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CK-4 or SN service categories and SAE 10W-30 viscosity grade are recommended. It is formulated for engines operating under severe service and a wide range of climatic conditions.

Certifications:

Fully registered under API Service Category CK-4

Meets or exceeds: • Cummins CES 20086 • Daimler MB-Approval 228.31 • Detroit Fluids Specification (DFS) 93K222 • Mack EOS 4.5 • Renault RLD-4 • Volvo VDS-4.5 • ACEA E7/E9-2012 • Caterpillar ECF-3 • JASO DH-2 • MAN M 3575 • MTU Category 2.1 • Ford WSS M2C171-F1

Backwards compatible and meets or exceeds requirements of CJ-4/CI-4 Plus, and gasoline SN

Typical Properties:

Grade		10W-30
API Gravity	ASTM D1298	31.2
Viscosity, cSt@40°C	ASTM D445	83.4
Viscosity, cSt@100°C	ASTM D445	12.2
Viscosity Index	ASTM D2270	142
CCS, -25°C, mPa-s	ASTM D5293	6290
Volatility, NOACK	ASTM D5800	12
Flash Point, °C	ASTM D92	212
Pour Point, °C	ASTM D97	-40
Total Base #, mg KOH/g	ASTM D2896	10

*Values are typical and may vary within normal production ranges