

Hanasaki API CI-4 DEO Series

Extra High-Performance Diesel Engine Oil

Product Description

Hanasaki API CI-4 DEO is an extra high-performance diesel engine oil that provides excellent lubrication of today's diesel engines that demands extended oil drain. This high-performance product has been proven in the field in a wide range of applications. This product is formulated from high quality base oils with a superior additive system to provide optimum engine performance in both old and modern diesel and gasoline engines. This product is available in 10W-30 and 15W-40 viscosity grades.

The key benefits of this product include:

- 1) Excellent thermal and oxidation stability
- 2) Extended TBN retention
- 3) Outstanding shear stability
- 4) Enhanced engine cleanliness and prolonged engine life
- 5) Strong soot handling capability
- 6) Outstanding low temperature properties
- 7) Good compatibility with engine parts (gasket and seal)

Performance Standards

API CI-4/SL, ACEA A3/B4-08, E7-08, MB p228.3, MTU Type 2, MAN 3275, Volvo VDS-3, Cummins CES 20077/20078, Mack EO-M Plus, Caterpillar ECF-2 (demonstration)

Typical Properties

SAE Grade	10W-30	15W-40
Viscosity @ 40°C (ASTM D445) , cst	72	109
Viscosity @ 100°C (ASTM D445) , cst	10.8	14.5
Viscosity Index (ASTM 2270)	139	133
Total Base Number (ASTM D2896) , mgKOH/g	11	11
Pour Point (ASTM D97) , °C	-27	-27
Flash Point (ASTM D92) , °C	223	226
Density @ 15°C (ASTM D4052) , kg/l	0.858	0.875

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended applications and the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS is available upon request through your sales contact at Hanasaki. This product should not be used for purposes other than its intended use. When disposing of used product, please take care to protect the environment.