



AISIN Ultra-synTECH+ Heavy Duty Diesel (HDD)

PREMIUM PERFORMANCE DIESEL ENGINE OIL

DESCRIPTION

AISIN Ultra-synTECH+ Synthetic Heavy-Duty Diesel (HDD) Motor Oil come with premium performance, high performance and multi-grade for heavy-duty diesel engine oil specifically designed for new low emission 2017 model year on-highway engine using ULSD (Ultra Low Sulphur Diesel). It is also recommended for a wide range of diesel engines requiring the latest API CK-4, ACEA E9 performance lubricants operating under the most severe service conditions.

APPLICATIONS

- AISIN API CK-4 is a mixed fleets motor oil recommended for all naturally aspirated and turbocharged four-stroke diesel engines in which the API CK-4 grade is recommended. It can apply for diesel engines equipped with DPF (Diesel Particulate Filter) or SCR (Selective Catalytic Reduction) and in other after-treatment systems where an API CK-4 engine oil is specified. For ultra heavy duty diesel vehicle's engine application
- Used for diesel engines equipped with DPF (Diesel Particulate Filter) or SCR (Selective Catalytic Reduction) and in other after-treatment systems where an API CK-4 engine oil is specified.

PERFORMANCE STANDARDS

- **AISIN Ultra-synTECH+ Fully Synthetic HDD Motor Oil 10W-40**

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended. Aisin, the Aisin logo, and related marks are trademarks of Aisin Asia Pte Ltd, used under license.

- API CK-4, ACEA E9-16
- Meet or exceeds the following specification:
 - ✓ Cummins CES 20086, Caterpillar CAT ECF-3 Approved, Volvo VDS 4.5, Mack EOS-4.5, Renault VI RLD-3, MB 228.31, MTU Type 2.1, Deutz DQC III-10 LA, Detroit Diesel DFS93K222, Ford WSS-M2C171-F1 Recommended
- **AISIN Ultra-synTECH+ Semi Synthetic HDD Motor Oil 15W-40**
 - API CK-4, ACEA E9-16 Approved
 - Meet or exceeds the following specification:
 - Volvo VDS 4.5, Mack EOS-4.5, Renault VI RLD-3, Cummins CES 20086, Caterpillar CAT ECF-3 Approved, MB 228.31, MTU Type 2.1, Deutz DQC III-10 LA, Detroit Diesel DFS93K222, Ford WSS-M2C171-F1 Recommended

CUSTOMER BENEFITS

- **With outstanding wear protection and ultimate performance reserve to maximize engine life**
- **It helps to prevent DPFs and SCRs from clogging thus extending the service life of after treatment systems.** Designed to provide enhanced protection against oil oxidation, viscosity loss due to shear, and oil aeration as well as protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits, degradation of low- and high-temperature properties, and soot-related viscosity increase.

KEY PROPERTIES

Synthetic Level	SAE Viscosity	Kinematic Viscosity, mm ² /s		Viscosity Index	Pour Point (°C)	Flash Point (°C)
		@ 40°C	@ 100°C			
Fully Synthetic	10W-40	114.3	14.9	135	-36	234
Semi Synthetic	15W-40	102.9	14.9	143	-40	228

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