

TECHNICAL PRODUCT SHEET

ECO HD R² E6 5W—30



DESCRIPTION

ECO HD R2 E6 is a high-performance, low-SAPS heavy-duty diesel engine oil formulated with advanced re-refined synthetic base oils and a balanced additive system. It is engineered to meet the stringent requirements of ACEA E6-class engines, offering reliable protection for components such as turbochargers and modern exhaust after-treatment systems. The formulation provides excellent thermal stability, oxidation resistance, and wear control under severe operating conditions. By incorporating high-quality re-refined synthetic stocks, the product significantly reduces its carbon footprint while maintaining premium lubrication performance.

APPLICATIONS

ECO HD R2 E6 is suitable for modern low-emission heavy-duty diesel engines compliant with Euro V and Euro VI standards and designed for use with DPF, EGR, and SCR after-treatment systems. It also delivers strong performance in earlier Euro I-IV engines requiring low-SAPS protection. Its high durability and cleanliness performance make it ideal for both on-road and off-road applications, including long-haul transport, municipal fleets, and equipment operating under extended service intervals.

SPECIFICATIONS

ACEA	E6	DTR	15C110 (ex. MB 228.51)
ACEA	E8	MAN	3477
API	CI-4	VOLVO	VDS-3

PROPERTIES

ECO HD R2 E6 provides effective control of sludge and deposits, maintains internal engine cleanliness, and demonstrates strong oxidation stability. Its synthetic re-refined base oils contribute to consistent viscosity retention, low volatility, and reliable lubrication even under high-temperature stress.

BENEFITS

ECO HD R2 E6 ensures long-term wear protection, stable performance across severe duty cycles, and enhanced protection of after-treatment systems thanks to its low-SAPS formulation. By using re-refined synthetic base oils, the product reduces environmental impact without compromising performance, offering fleets a durable and lower-carbon solution.



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PHYSICAL-CHEMICAL CHARACTERISTICS

ECO HD R2 E6	METHOD	SAE 5W-30
Density at 15°C, g/cm ³	ASTM D4052	0.846
Viscosity, Kinematic (cSt) 40°C	ASTM D445	69.7
Viscosity, Kinematic (cSt) 100°C	ASTM D445	11.8
Viscosity index	ASTM D2270	166
Flash point, COC, °C	ASTM D92	228
Pour point, °C	ASTM D97	-36
TBN, mgKOH/g	ASTM D2896	10.2
Dynamic Viscosity, °C/cP	ASTM D5293	30°C/5,500

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

