

TECHNICAL PRODUCT SHEET

ECO HD R² 15W—40



DESCRIPTION

ECO HD R2 is a high-quality heavy-duty engine oil formulated with premium re-refined base oils and modern additive technology. It provides strong protection for diesel engines operating under demanding conditions while maintaining excellent cleanliness and performance stability. By utilizing high-purity re-refined base stocks, the product delivers reliable lubrication with a significantly lower carbon footprint compared to conventional mineral-based alternatives.

APPLICATIONS

ECO HD R2 is suitable for a wide range of on- and off-highway diesel engines, including those equipped with EGR or SCR systems. It is designed to support fleet operations requiring durable lubrication, consistent viscosity control, and reliable engine protection across extended operating hours. Its formulation ensures compatibility with engines operating in mixed duty cycles, high-temperature environments, and heavy-load conditions.

SPECIFICATIONS

ACEA	E7	DTFR	15B110 (Approved) (ex. MB 228.3)
ACEA	E5	MTU	Cat. 2
ACEA	E3	VOLVO	VDS-3 (Approved)
API	CI-4 (Approved)	RENAULT TRUCKS	RLD-2 (Approved)
API	CH-4	MACK	EO-M Plus
API	CG-4	MACK	EO-N (Approved)
API	SL (Approved)	GLOBAL	DHD-1
MAN	3275-1	CUMMINS	CES 20076
DAF	SHPD	CUMMINS	CES 20077
ALLISON	C4	CUMMINS	CES 20078
DETROIT DIESEL	DFS 93K215	CATERPILLAR	ECF-1
GIMA	CMS M1145	CATERPILLAR	ECF-2
IVECO	18-1804 T2 E3	ZF	TE-ML 07C/D
DEUTZ	DQC III-10		

PROPERTIES

ECO HD R2 offers dependable detergency, oxidation resistance, and shear stability to maintain engine cleanliness and performance. Its controlled volatility helps reduce oil consumption, while its robust additive package ensures effective wear protection and sustained engine efficiency.

BENEFITS

ECO HD R2 enhances engine durability, reduces deposit formation, and supports stable turbocharger operation. The use of re-refined base oils lowers environmental impact without compromising performance, offering fleets a more sustainable solution with dependable operational reliability.



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PHYSICAL-CHEMICAL CHARACTERISTICS

ECO HD R2	METHOD	SAE 15W-40
Density at 15°C, g/cm ³	ASTM D4052	0.880
Viscosity, Kinematic (cSt) 40°C	ASTM D445	106.4
Viscosity, Kinematic (cSt) 100°C	ASTM D445	14.0
Viscosity index	ASTM D2270	140
Flash point, COC, °C	ASTM D92	228
Pour point, °C	ASTM D97	-30
TBN, mgKOH/g	ASTM D2896	10.4
Dynamic Viscosity, °C/cP	ASTM D5293	-20°C/6,100
HTHS, cP	CEC-L-36-A-90	≥3.5

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.

