

TECHNICAL PRODUCT SHEET

## ECO HD R<sup>2</sup> SHPD 10W—40



### DESCRIPTION

ECO HD R2 SHPD is a premium-quality Super High-Performance Diesel (SHPD) engine oil formulated with a synthetic blend of sustainable re-refined base oils. It is engineered to provide strong engine cleanliness, wear protection, and stable performance under high load and temperature conditions. By incorporating high-purity re-refined base stocks, the formulation delivers dependable lubrication while contributing to a lower carbon footprint compared to conventional mineral or synthetic-blend diesel engine oils.

### APPLICATIONS

ECO HD R2 SHPD is suitable for on- and off-highway heavy-duty diesel engines, as well as light commercial vehicles requiring SHPD-level protection. The formulation supports engines equipped with systems such as EGR or SCR and provides reliable performance for mixed fleets operating in demanding service environments. Its versatile profile makes it an ideal choice for operators seeking both durability and more sustainable lubrication solutions.

### SPECIFICATIONS

|                |                       |                |                  |
|----------------|-----------------------|----------------|------------------|
| ACEA           | E7                    | MTU            | Cat. 2           |
| ACEA           | E5                    | VOLVO          | VDS-3 (Approved) |
| ACEA           | E3                    | RENAULT TRUCKS | RLD-2 (Approved) |
| API            | CI-4 (Approved)       | MACK           | EO-M Plus        |
| API            | CH-4                  | MACK           | EO-N (Approved)  |
| API            | CG-4                  | DAF            | SHPD             |
| API            | SL (Approved)         | GLOBAL         | DHD-1            |
| MAN            | 3275-1                | CUMMINS        | CES 20076        |
| DETROIT DIESEL | DFS 93K215            | CUMMINS        | CES 20077        |
| IVECO          | 18-1804 T2 E3         | CUMMINS        | CES 20078        |
| DEUTZ          | DQC III-10            | CATERPILLAR    | ECF-1a           |
| DTR            | 15B110 (ex. MB 228.3) | CATERPILLAR    | ECF-2 (Approved) |
| MB             | 229.1                 |                |                  |
| Level:         | Allison C4            | ZF TE-ML 07C   |                  |

### PROPERTIES

ECO HD R2 SHPD offers effective detergency, enhanced oxidation control, and reliable shear stability to maintain engine cleanliness and efficiency. Low volatility contributes to reduced oil consumption, while the synthetic blend ensures improved thermal resistance and consistent viscosity retention during extended service intervals.

### BENEFITS

ECO HD R2 SHPD helps protect engine components, supports clean turbocharger operation, and maintains stable lubrication under severe workloads. The use of sustainable re-refined base oils reduces environmental impact without compromising durability, making it an efficient and eco-responsible choice for modern diesel fleets.



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## PHYSICAL-CHEMICAL CHARACTERISTICS

| ECO HD R2 SHPD                     | METHOD     | SAE 10W-40  |
|------------------------------------|------------|-------------|
| Density at 15°C, g/cm <sup>3</sup> | ASTM D4052 | 0.863       |
| Viscosity, Kinematic (cSt) 40°C    | ASTM D445  | 94.7        |
| Viscosity, Kinematic (cSt) 100°C   | ASTM D445  | 14.0        |
| Viscosity index                    | ASTM D2270 | 159         |
| Flash point, COC, °C               | ASTM D92   | 226         |
| Pour point, °C                     | ASTM D97   | -33         |
| TBN, mgKOH/g                       | ASTM D2896 | 10.4        |
| Dynamic Viscosity, °C/cP           | ASTM D5293 | -25°C/6,500 |

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.

