**Press Release For immediate release**

**Trelleborg Launches Enhanced D-Seal Design to Lower Automotive Emissions**

Trelleborg Sealing Solutions launches its enhanced double D-Seal, a resilient, dual-function sealing and damping solution specifically developed to meet the needs of the automotive, truck, and transportation industry. Designed specifically for static and semi-dynamic powertrain applications where vibrations can cause damage, D-Seals can extend the time to service intervals of the engine, contributing to lower emissions through improved efficiency.

Developed as an alternative to O-Rings, X-Rings, Square-Rings, and other oval-shaped seals, Trelleborg Sealing Solutions has developed two main designs of the D-Seal, an enhanced double D-shaped seal, and an updated single D-shaped seal. The robust designs each have a customized profile that effectively absorbs vibrations and maintains strength and rigidity.

Peter Astrom, Product Manager, Trelleborg Sealing Solutions, says: “The key applications for D-Seals are in engines and transmissions, unlike with O-Rings and traditional static seals, in addition to sealing, the D-Seal provides vibration damping to prevent damage, making it more effective. As the reliance on powertrains for eMobility and electrification of vehicles increases, Trelleborg are committed to continuously innovating to support the transition to cleaner transportation. The enhanced design of D-Seals optimizes a vehicle’s powertrain efficiency and contributes to a reduction in CO2 emissions.

“Unlike O-Rings, D-Seals are simple to install and do not twist in the groove during installation, making them perfect for use in automated manufacturing processes. The unique design has no mold or parting line on the sealing surface, removing the risk of failure at the join or a potential leak path.”

Trelleborg’s double D-shaped design includes sharper edges that ensure a tight seal fit, for example, against a cylinder lining, evenly distributing pressure to improve seal performance and eliminate the risk of leakage or cavitation damage, where water vapor bubbles form and damage metallic components.

Available in a wide choice of industry-approved materials, D-Seals can be manufactured to provide specific characteristics including temperature, pressure, or media resistance, and colored to aid in identification or camera detection to support automated processes. Additional assembly coatings can also be added to D-Seals to reduce assembly forces and eliminate lubrication during installation.

For more information on D-Seals, go to: <https://www.trelleborg.com/en/seals/products-and-solutions/latest-innovations/d-seal>

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**About Trelleborg Sealing Solutions and Trelleborg Group**

***Trelleborg Sealing Solutions*** *is one of the world’s leading developers, manufacturers and suppliers of precision seals, bearings and custom-molded polymer components. It focuses on meeting the most demanding needs of aerospace, automotive and general industrial customers. Its network extends to over 25 production facilities and more than 50 Customer Solution Centers globally. The business area accelerates the progress of its customers through outstanding local support, an unrivalled product range including patented products and proprietary materials, a portfolio of established brands, unique process offerings, its ServicePLUS value chain solution and ‘Ease of Doing Business’ philosophy.*[*www.trelleborg.com*](http://www.trelleborg.com)*/seals*

***Trelleborg*** *is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has annual sales of about SEK 34 billion (EUR 3.34 billion, USD 3.95 billion) and operations in about 50 countries. The Group comprises three business areas: Trelleborg Industrial Solutions, Trelleborg Sealing Solutions and Trelleborg Wheel Systems. The Trelleborg share has been listed on the Stock Exchange since 1964 and is listed on Nasdaq Stockholm, Large Cap.* [*www.trelleborg.com*](http://www.trelleborg.com)*.*