



Immediate Release

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**BORGWARNER SUPPLIES OPTIMIZED R2S® TURBOCHARGING TECHNOLOGY
FOR THE VOLKSWAGEN GROUP'S NEW HIGH-PERFORMANCE DIESEL ENGINE**

*BorgWarner's Regulated Two-Stage (R2S®) Turbocharging Technology Helps Boost
Performance for Volkswagen's Powerful New 2.0-liter Diesel Engine*

Auburn Hills, Michigan, July 21, 2015 – BorgWarner provides its award-winning regulated two-stage (R2S®) turbocharging technology for Volkswagen's new high-performance diesel engine. Engineered to comply with the Euro 6 emissions standard, the 2.0-liter four-cylinder engine is the most powerful diesel engine in its class. Providing an output of 240 HP (176 kW) and a maximum torque of 369 lb.-ft. (500 Nm), it achieves an average fuel economy of 44 mpg (5.3 liters/100 km). Powered by BorgWarner's optimized turbocharging technology, the diesel engine debuted in the VW Passat and sets new standards for efficiency and performance.

"We are pleased to expand our long-term partnership with the Volkswagen Group by delivering our regulated two-stage turbocharging technology for this powerful, downsized diesel engine," said Frédéric Lissalde, President and General Manager, BorgWarner Turbo Systems. "BorgWarner's leading turbocharging technologies help automakers deliver powerful performance."

BorgWarner's R2S turbocharging system consists of two series-connected turbochargers and features a variable turbine geometry (VTG) turbocharger for the high-pressure stage combined with a larger B03 water-cooled turbocharger optimized for low-pressure exhaust gas recirculation (LP EGR). The low-pressure EGR is captured downstream of the exhaust emission control system and then mixed with the fresh air upstream of the compressor of the low-pressure stage. BorgWarner uses a special protective coating on the turbocharger compressor wheel to withstand the extreme loads and the corrosive particles. Controlled by an electric actuator, BorgWarner's VTG

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BorgWarner Inc. (BorgWarner Supplies Optimized R2S[®] Turbocharging Technology for the Volkswagen Group's new high-performance Diesel Engine) – 2

turbocharger responds quickly at low engine speeds, resulting in a rapid rise in boost pressure for nearly instant acceleration. As the engine speed increases, both turbochargers work together, gradually shifting to the larger, low-pressure turbocharger. At higher engine speeds, all of the gases flow directly to the larger B03 turbocharger, maintaining smooth power delivery at higher speeds. By combining two series-connected turbochargers of different sizes, BorgWarner's R2S technology provides high boost pressures over the entire engine speed range.

About BorgWarner

BorgWarner Inc. (NYSE: BWA) is a product leader in highly engineered components and systems for powertrains around the world. Operating manufacturing and technical facilities in 58 locations in 19 countries, the company delivers innovative powertrain solutions to improve fuel economy, reduce emissions and enhance performance. For more information, please visit borgwarner.com.



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