



BorgWarner's R2S[®] Turbocharging Technology Boosts New High-performance Diesel Engine from Great Wall Motors

- *The first commercial regulated two-stage (R2S[®]) turbocharging system in the Chinese passenger vehicle market*
- *Significantly improves performance and fuel efficiency*
- *Helps automakers meet upcoming China V emissions standards*

Auburn Hills, Michigan, June 15, 2017 – BorgWarner's regulated two-stage (R2S[®]) turbocharging technology boosts performance for Great Wall Motor's new 2.0-liter 4-cylinder diesel engine. Utilized in a Chinese passenger car for the first time, BorgWarner's R2S turbocharging technology optimizes performance, provides an enhanced driving experience and reduces fuel consumption for Great Wall's Haval H8 and H9 SUVs.

"Meeting the upcoming China V emission standards has become a major challenge for domestic car makers. BorgWarner's R2S technology enables engine downsizing, which contributes to improved fuel economy and reduces emissions to help meet these standards," said Frédéric Lissalde, President and General Manager, BorgWarner Turbo Systems. "Our innovative low-emission, high-performance solution helps Chinese auto makers address challenges such as increasingly stringent government standards while enhancing performance. We are pleased to provide a leading turbocharging technology, and professional and localized customer service for Great Wall's diesel engine."

BorgWarner's R2S turbocharging technology helps Great Wall's fuel-efficient 4-cylinder diesel engine achieve an output of 140 kW and a maximum torque of 420 Nm. The technology allows maximum exhaust gas recirculation rates even under full load conditions while significantly reducing carbon dioxide emissions. Combining two series-connected turbochargers of different sizes, the advanced technology adapts quickly to changing situations and delivers high boost pressures over the entire engine speed range. At low engine speeds, the entire exhaust gas flow is directed to the smaller, high-pressure turbocharger, resulting in rapid rise in boost pressure for nearly instant acceleration without delay or turbo lag. As the engine speed increases, both turbochargers work together. The larger turbocharger pre-compresses the intake air, and the

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smaller turbo compresses it even more. To maintain smooth power delivery, all of the gases flow directly to the larger turbocharger through a bypass valve at higher engine speeds.

About BorgWarner

BorgWarner Inc. (NYSE: BWA) is a global product leader in clean and efficient technology solutions for combustion, hybrid and electric vehicles. With manufacturing and technical facilities in 62 locations in 17 countries, the company employs approximately 27,000 worldwide. For more information, please visit borgwarner.com.



BorgWarner launches first R2S® turbocharging technology in the Chinese passenger vehicle market and improves driving experience, emissions and fuel efficiency for Great Wall's Haval H8 and H9 SUVs.

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