



BORGWARNER BOOSTS PERFORMANCE OF DOWNSIZED DIESEL ENGINES

BorgWarner's Variable Turbine Geometry (VTG) Turbochargers Set New Benchmark in Lower CO₂ Emissions for 1.6-Liter Diesel Engines

Auburn Hills, Michigan, January 27, 2011 – BorgWarner now supplies the latest generation of variable turbine geometry (VTG) turbochargers for the newly developed 1.6-liter four-cylinder common-rail diesel engines featured in the new MINI family. The downsized engine is available with a power output of 90 HP (66 kW) in the MINI One D and One D Clubman and with 112 HP (82 kW) in the Cooper D and Cooper D Clubman – and for the first time in the Cooper Convertible. Controlled by an electric actuator, BorgWarner's BV35 VTG turbocharger helps the engine set new standards of efficiency and performance, achieving average fuel consumption of 61.8 mpg (3.8 liters/100 km) in both hatchback models, with CO₂ emissions as low as 99 g/km.

“Using BorgWarner's advancements in turbocharging technology, modern diesel engines achieve optimum power output and great fuel economy”, said Roger Wood, Executive Vice President, BorgWarner. “We are pleased to extend our very successful and long-standing partnership with the BMW Group to the compact car segment.”

With BorgWarner's next generation VTG turbocharger, it was possible to downsize the diesel engine's displacement from 2.0 liters to 1.6 liters while maintaining the optimum ratio between bore and stroke of the combustion chambers. To improve engine response at very low rpm, patented S-shaped guide vanes regulate VTG turbine output by changing the inflow angle and speed at the turbine wheel inlet. Compared with diesel engines previously utilized in the MINI, the new four-cylinder units deliver higher maximum torque of 215 Nm and 270 Nm respectively, achieving greater pulling power for an exciting driving experience, while setting a new benchmark in lower fuel consumption.

About BorgWarner Turbo Systems

-more-

BorgWarner Inc. (BorgWarner Boosts Performance of Downsized Diesel Engines)-2

BorgWarner Turbo Systems is a leading global supplier of turbochargers for diesel- and gasoline-powered passenger cars, light trucks and commercial vehicles. A pioneer in turbocharging technology, BorgWarner Turbo Systems continues to lead advancements in the industry with innovations designed to improve fuel economy, reduce emissions and optimize vehicle performance.

About BorgWarner

Auburn Hills, Michigan-based BorgWarner Inc. (NYSE: BWA) is a product leader in highly engineered components and systems for vehicle powertrain applications worldwide. The company operates manufacturing and technical facilities in 57 locations in 17 countries. Customers include VW/Audi, Ford, Toyota, Renault/Nissan, General Motors, Hyundai/Kia, Daimler, Chrysler, Fiat, BMW, Honda, John Deere, PSA, and MAN. The Internet address for BorgWarner is: <http://www.borgwarner.com>.



BorgWarner's BV35 VTG turbocharger helps the new 1.6 l diesel engine set new standards of efficiency and performance.

###