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## BORGWARNER TURBOCHARGERS POWER NEW SERIES OF DIESEL ENGINES FOR COMMERCIAL VEHICLES

BorgWarner's Turbocharging Technologies Help Increase Fuel Economy, Reduce Emissions and Improve Performance for New Medium-Duty Engines

Auburn Hills, Michigan, February 21, 2013 – BorgWarner supplies its latest turbocharging technology for a new generation of medium-duty engines from Mercedes-Benz, the first commercial vehicle manufacturer to achieve Euro VI compliance for all of its medium- and heavy-duty engines. Replacing the successful 900 series, the new OM 934 and OM 936 engines are available in different output variants and used in a wide range of on-highway applications such as medium-duty trucks and urban buses. Equipped with the latest B-series turbocharging technology for standard power outputs and an award-winning regulated two-stage (R2S®) turbocharger for top outputs, BorgWarner's advanced technology helps the engine significantly reduce emissions while improving performance and fuel economy. In addition, BorgWarner also supplies its advanced fans and fan drives for this new engine series.

"Compared with current standards, Euro VI emissions standards challenge engine manufacturers to reduce nitrogen oxides by about 80 percent. BorgWarner's latest turbocharging technologies help satisfy these standards with the added bonus of improving fuel economy and engine performance," said Pete Kohler, President and General Manager, BorgWarner Turbo Systems Commercial Diesel Products. "Our highly-efficient turbocharging technologies provide OEMs with state-of-the-art powertrain solutions for on-and off-highway applications."

The new Mercedes-Benz medium-duty engines cover the 5.1-liter four-cylinder OM 934 engine and the 7.7-liter six-cylinder OM 936 engine with a power range of 115 kW (156 HP) to 260 kW (354 HP). Both engines are equipped with variants of BorgWarner B-series turbochargers. The standard variant of both engines comes with the latest B-series

turbocharger while the high-performance variant features BorgWarner's R2S turbocharging technology featuring a small high-pressure turbocharger and a larger low-pressure B2 turbocharger. BorgWarner's recent B-series turbocharging advancements include titanium compressor wheels as well as electric actuators for the wastegate and turbine bypass control. BorgWarner also integrated parts of the exhaust manifold into the turbine housing of these applications for improved thermodynamics, compact packaging and simplified installation during the engine build. Powered by BorgWarner's turbocharging technology, the new Mercedes-Benz medium-duty engine generation is a powerful and highly economical solution for various applications, delivering durable and reliable operation in even harsh commercial diesel powertrain environments.

## **About BorgWarner**

Auburn Hills, Michigan-based BorgWarner Inc. (NYSE: BWA) is a technology leader in highly engineered components and systems for powertrain applications worldwide. Operating manufacturing and technical facilities in 57 locations in 19 countries, the company develops products to improve fuel economy, reduce emissions and enhance performance. Customers include VW/Audi, Ford, Toyota, Renault/Nissan, General Motors, Hyundai/Kia, Daimler, Chrysler, Fiat, BMW, Honda, John Deere, PSA, and MAN. For more information, please visit www.borgwarner.com.



BorgWarner's R2S<sup>®</sup> turbocharging technology helps increase fuel economy, reduce emissions and improve performance for new medium-duty engines.

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