



## **BorgWarner Viscronic® Fan Drive**

### **Cools Cursor 13 Engines for SFH in China**

- *Enables efficient cooling based on dynamic engine needs*
- *Operates only when needed to deliver more horsepower, improve fuel economy and reduce noise and emissions*
- *Provides reliable long-haul operation even in high temperatures and elevations*

Auburn Hills, Michigan, Dec 24, 2018 – BorgWarner’s Viscronic® electronically controlled fan drive helps improve the performance of the Cursor 13 engine from SAIC Fiat Powertrain Hongyan (SFH). Featuring an electronically actuated variable speed fan drive, BorgWarner’s Viscronic fan drive responds directly to engine needs, providing dynamic cooling which results in improved available horsepower and fuel economy as well as less noise and longer durability. The technology provides reliable operation for long-haul trucks even in harsh environments such as high temperatures and elevations.

“Compared with traditional silicon-fluid fan drives, BorgWarner’s electronically controlled Viscronic fan drive delivers more efficient and reliable cooling with less noise,” said Joe Fadool, President and General Manager, BorgWarner Emissions & Thermal Systems. “With the roll out of the State V emissions standard and the potential launch of the State VI standard, we envision tremendous growth potential in electronically controlled fan drives in the Chinese market. Our successful cooperation with SFH is a perfect demonstration of BorgWarner’s localized manufacturing capability to provide high-quality products to Chinese customers.”

Actuated by ambient temperature via a thermostatic coil, conventional fan drives deliver the torque required to adequately cool the engine, but due to the lack of accurate engine temperature inputs, can still draw considerable power when cooling may not be needed, resulting in a significant waste of power. BorgWarner’s Viscronic variable speed fan drive uses specially calibrated software to communicate with the engine’s electronic control unit to continuously respond directly to the engine’s needs based on engine temperature, engine speed, vehicle speed or engine load. Even under dynamic conditions, the Viscronic system operates only when

needed, slowing the average fan speed in any given duty cycle to reduce power consumption, minimize noise, vibration and harshness and increase cooling accuracy and efficiency. As a result, the engine runs more efficiently, delivers more horsepower, uses less fuel and emits fewer emissions.

## 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 66 locations in 18 countries, the company employs approximately 29,000 worldwide. For more information, please visit [borgwarner.com](http://borgwarner.com).



BorgWarner's electronically controlled Visctronic<sup>®</sup> fan drive enables efficient cooling and improves fuel economy for Cursor 13 engines from SFH in China.

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filed Annual Report on Form 10-K. We do not undertake any obligation to update or announce publicly any updates to or revision to any of the forward-looking statements.

**PR contact:**

Sugar Zhu

Phone: +86 21 60833187

Email: [mediacontact.asia@borgwarner.com](mailto:mediacontact.asia@borgwarner.com)