

## Press Release

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# Volvo Cars presents a front-wheel drive XC60 with CO<sub>2</sub> emissions below 170 g/km

During the first half of 2009, Volvo Cars will launch a variant of the new Volvo XC60 with front-wheel drive, an upgraded Euro 5-compliant 2.4-litre diesel engine, 175 horsepower, 420 Nm of torque and CO<sub>2</sub> emissions of less than 170 g/km. "We've increased the engine's performance by twelve horsepower and 80 Newton metres of torque. At the same time we have succeeded in cutting fuel consumption. This highlights the immense potential of conventional drivelines to deliver continued reductions in carbon dioxide emissions," says Magnus Jonsson, Senior Vice President, Research & Development at Volvo Cars.

"This is the first step in a determined drive towards systematic reduction of CO<sub>2</sub> emissions from our conventional drivelines. The next stage for the XC60 is a micro-hybrid with the potential for reducing emissions to about 140 g/km," adds Magnus Jonsson.

The new Volvo XC60 was introduced with a six-cylinder turbocharged T6 engine producing 285 hp, as well as two five-cylinder turbodiesels: the D5 with 185 hp and the 2.4D with 163 hp. Four-wheel drive (AWD) with Instant Traction is fitted as standard to all these variants.

In 2009, the driveline range will be expanded with a front-wheel drive version of the 2.4D, upgraded to produce 175 horsepower and 420 Nm of torque.

With a manual gearbox, CO<sub>2</sub> emissions are less than 170 g/km and fuel consumption is approximately 6.4 l/100 km. The corresponding figures with automatic transmission are approximately 7.3 l/100 km and 193 g/km.

### **A range of driveline improvements**

In addition to front-wheel drive, a variety of smaller improvements contribute to the attractive fuel consumption and CO<sub>2</sub> figures.

Volvo Cars' powertrain experts have reduced internal friction and pump losses in the diesel engine. The pressure drop in the intake and exhaust system has also been reduced. Injection pressure has been increased with the next generation of high-pressure diesel pumps and the fuel-injection strategy has been refined through the introduction of Piezo-based injectors.

What is more, the engine has lower compression, more efficient combustion and the latest generation of engine management. The single turbocharger has been optimised to produce high torque from low revs.

"As always this is the science of small adjustments. Many systems and details in a car model have been dimensioned to suit all engine variants, from the smallest diesel to the most powerful petrol engine. So in other words, there is a certain amount of scope for fine-tuning individual engine variants," explains Magnus Jonsson.

### **Unaffected sportiness**

One important aim of the development process is to retain the sporty properties that are a central part of the new crossover's attraction.

"More horsepower, higher torque and a sporty chassis setting all help give the front-wheel drive variant the right XC60 dynamics. It's the perfect choice for buyers who want to focus on fuel consumption and CO<sub>2</sub> emissions without compromising on driving pleasure," says Magnus Jonsson.

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Descriptions and facts in this press material relate to Volvo Cars' international car range. Described features might be optional. Vehicle specifications may vary from one country to another and may be altered without prior notification.

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