

## Press Release

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# The new Volvo Drive-E powertrain family – world-leading engine output versus CO<sub>2</sub> emissions

Volvo Car Group's new two-litre, four-cylinder Drive-E powertrain family can truly be considered as offering customers a world-class blend of drivability and low CO<sub>2</sub> emissions. The Volvo S60 T6 with 306 horsepower and the new 8-speed automatic is the first car in this segment that delivers over two horsepower per gram CO<sub>2</sub> from only a combustion engine.

"During the development phase of our Drive-E powertrains, we promised to bring efficient driving pleasure into a new dimension. The official European NEDC certification now confirms that we outperform competitors when it comes to power versus CO<sub>2</sub> emissions", says Derek Crabb, Vice President Powertrain Engineering at Volvo Car Group.

With 306 hp and CO<sub>2</sub> emissions at 149 g/km (6.4 l/100 km) the Volvo S60 T6 becomes the first car in the segment that offers the driver over two horsepower per gram CO<sub>2</sub>. The car accelerates from 0-100 km/h in 5.9 seconds.

### Engine with compressor and turbo

The new two-litre, four-cylinder T6 engine features both a supercharger and a turbo charger. Using the supercharger to fill in the bottom end torque gives the petrol engine a big, naturally aspirated feel. The mechanically linked compressor starts to function immediately at low revs, while the turbocharger kicks in when the airflow builds up.

"We have created a range of smaller, more intelligent engines with power curves that give exciting drivability compared with engines with more cylinders. At the same time we continue to reduce fuel consumption and CO<sub>2</sub> emissions," says Derek Crabb.

The Volvo S60 T5 with 245 hp and the new 8-speed automatic is also exceptionally competitive. CO<sub>2</sub> emissions are down at 137 g/km, which translates into fuel consumption of 5.9 l/100 km.

### Prepared for electrification

The Drive-E engines are prepared for future electrification from the start. The compact size of the four-cylinder engines means that the electric motor can be fitted in the front or rear of the vehicle. The battery pack will be located in the centre of the car.

"The success of our V60 Plug-in Hybrid has also proved there is no contradiction between driving pleasure and low emissions. And we have already confirmed that the all-new XC90 will be introduced in 2014 with a petrol plug-in hybrid at the top of the range," says Derek Crabb. He concludes: "The first Volvo car back in 1927 featured a two-litre, four-cylinder engine. So you can safely say that the new Drive-E powertrain family remains true to our heritage."

### Keywords:

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