

**Caterpillar Marine Power Systems**

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**Caterpillar Marine to power “Super Tug”**

**Hamburg, Germany** – In recent years, Caterpillar Marine Power Systems (CMPS) has powered countless Offshore Support Vessels (OSV) with both Cat® and MaK brand marine engines. Nonetheless, the latest order from Otto Marine Pte Ltd in Singapore is still remarkable: Two MaK 16 M 32 C marine engines, each of 8,000 kW, will jointly propel a “Super Tug” with more than 250 tons bollard pull. PT. Batamec shipyard in Batam, Indonesia, is working closely with Vik-Sandvik Group, the Norwegian OSV design specialists, to build this multi-functional “VS491 Clean Design” Anchor Handling Tug Supply Vessel (AHTSV).

In addition to the two vee-type M 32 C engines, the CMPS scope of supply for this 90-metre design includes hybrid PTO/PTI gearboxes, 21 metres of shafting and 4.2-metre diameter propellers, all of which are from Scana Volda. The gearboxes provide a lot of flexibility with 4,500 kW PTO (Power Take Off) and 2,000 kW PTI (Power Take In) capability. This setup allows the tug to operate as a diesel-electric vessel when in dynamic positioning mode while using full engine power and electric boost for maximum pull operations.

The MaK VM 32 C engine series comprising 12- and 16-cylinder versions was introduced in 2000. Utilising a bore of 320 mm and a stroke of 420 mm, these diesels cover a power range from 5,760 to 8,000 kW at 720 or 750 rpm. With more than 1,320 engines sold totalling 5,100 MW, the MaK M 32 is recognised for performance and reliability, especially in the OSV market.

The first four VS491 Clean Design vessels have been sold by Otto Marine to Mosvold Supply Ltd of Norway and will be capable of global operation. Newbuildings number one and two will be delivered in October 2009 and June 2010. Meanwhile, Otto Marine has received further enquiries from customers asking for repeat vessels of similar design.

Michael Petersen, MaK Sales Manager, Caterpillar Marine Asia Pacific, Shanghai said: “This Otto Marine deal ranks among the largest single contracts ever concluded by the team of Caterpillar Marine Asia Pacific in Singapore. Along with many other offshore shipbuilding concerns in Singapore, Indonesia, Malaysia, India and Thailand, we are facing a strong demand for both Cat and MaK main propulsion and generating sets. And I am pretty sure that 2008 will further fuel this demand.”

**Caterpillar Marine Power Systems****About Caterpillar Marine Power Systems**

Caterpillar Marine Power Systems, with headquarters in Hamburg, Germany, brings together all the sales and service activities for Cat and MaK branded marine products within Caterpillar Inc. This organization provides premier marine power solutions (high and medium speed with outputs from 11 kW to 16,000 kW) and customer service from a single source for the global ocean-going, commercial and pleasure craft markets. The Caterpillar Marine Power Systems sales and service network includes more than 2,100 dealer locations world-wide and is well positioned to support customers wherever they are.

More information is available at <http://www.cat-marine.com/> or <http://www.mak-global.com/>.

**About Caterpillar**

For more than 80 years, Caterpillar Inc. has been making progress possible and driving positive and sustainable change on every continent. With 2006 sales and revenues of \$41.517 billion, Caterpillar is a technology leader and the world's leading manufacturer of construction and mining equipment, clean diesel and natural gas engines and industrial gas turbines.

More information is available at: <http://www.cat.com/>.

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