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## **Unique Tilt Testing Demonstrates Reliability of MaK M 32 C Engine**

### *Reliability and safety at 25° tilt.*

Earlier this spring, Caterpillar Motoren set out to complete a unique test accomplishment before launching the MaK diesel engine line for the offshore petroleum market – a 25° tilt test. While the MaK brand has been recognized for decades for extraordinary reliability in marine applications, the launch into the oil and gas industry prompted the desire for the additional test to demonstrate the reliability for the benefit of the customer.

To obtain a certification from a global Marine Classification Society, such as Det Norske Veritas (DNV), an engine manufacturer is required to demonstrate the 22.5° inclination capability for rolling motion (side to side) that can easily occur when a vessel is on the open seas. This can be proven through simulation and calculation. In fact, only the Norwegian Marine Directorate (NMD) requires a physical test for semi-submersible drilling platforms in offshore applications. However, the physical completion of the 25° tilt test further confirms the reliability and durability of the MaK VM 32 C engines and generator sets, which have the highest piston speed of all MaK engines. The engine is in compliance with the highest inclination regulatory requirements, such as the 25° inclination in all directions, which can be now assumed for all four MaK engine lines.

The testing was completed on an IMO II-compliant MaK VM 32 C generator set over 35 days at the engine center in Rostock, Germany. Known for its state of the art testing center, including six test beds for the testing of every MaK engine manufactured at the facility, the Rostock employees completed the test, which logged more than 100 hours on the test engine, far greater than the four hours required by the NMD.

“While many of our competitors choose to complete the same requirement by using computer-driven simulations, we sought out to really uphold our promises regarding engine reliability by completing the physical test at an actual test cell,” explains Jens-Peter Reinkens, Facility Manager at Caterpillar Motoren in Rostock. “We were pleased to see such fantastic results from the VM 32 C test, and we are now in the process with the Marine Classification Societies to gain the same certification for our

other MaK engines as well. This really demonstrates the true value for the customer in terms of reliability of MaK engines for both the marine and petroleum industries.”

As recent events in the petroleum industry demonstrate, safety while at sea can quickly be threatened for even the most experienced employees. Thus, the additional steps taken to complete the comprehensive tilt test further demonstrate the focus on safety by Caterpillar for all customers and employees.

For more information about MaK power solutions, visit your local MaK dealer or visit [MARINE.CAT.COM](http://MARINE.CAT.COM).

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

Caterpillar Marine Power Systems, with headquarters in Hamburg, Germany, groups all the marketing and service activities for Cat and MaK marine engines within Caterpillar Inc. The organisation provides premier power solutions in the medium- and high-speed segments with outputs from 93 to 16,000 kW in main propulsion and 10 to 7,680 kWe in marine generator sets. The sales and service network includes more than 2,100 dealer locations world-wide dedicated to support customers in ocean-going, commercial marine and pleasure craft wherever they are.



More information is available at: [MARINE.CAT.COM/pr](http://MARINE.CAT.COM/pr)

## About Caterpillar

For more than 80 years, Caterpillar Inc. has been making progress possible and driving positive and sustainable change on every continent. With 2009 sales and revenues of \$32.396 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 [www.cat.com](http://www.cat.com).

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