

Caterpillar Marine Power Systems

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Nuggets for NCL – first MaK 16 M 43 C and 12 M 43 C marine engines for “F3” project ready for shipment

Hamburg, Germany – Norwegian Cruise Line’s first new generation “Freestyle Cruising” ship is growing at Aker France. The ship is due for delivery in 2009/10. Caterpillar Marine Power Systems will supply the power plant comprising 3x MaK 16 M 43 C and 3x MaK 12 M 43 C marine engines this year in May. Utilising a diesel-electric set up, the six long-stroke medium-speed engines will provide a total of 79.8 MW for ship propulsion and on-board electricity supply.

Environmental protection is among NCL’s highest priorities for these newbuildings. A customer-specific engine rating will address all areas of concern. The MaK M 43 C engines meet DNV Clean Design requirements reducing NOx emissions to 10.4 g/kWh. A lower cylinder rating decreases the specific fuel oil consumption and thus also CO2 emissions. Finally, the proprietary Flexible Camshaft Technology (FCT) will ensure that smoke at all operating conditions is well below visibility.

One MaK 16 M 43 C and MaK 12 M 43 C engine each have already passed a comprehensive test program at Caterpillar Motoren’s facility in Rostock, Germany. All crucial parameters related to pressure, temperature, vibration, noise, heat radiation, fuel consumption and emissions have met or exceeded the specified values. Representatives from both NCL and Aker France witnessed the trial runs. The remaining four engines will be tested subsequently. Shipment to Aker France is currently scheduled for the last week of May.

Caterpillar Marine Power Systems has made a strong introduction on the cruise business with the new M 43 C vee-type design. Six MaK 16 M 43 C engines along with six MaK 12 M 43 C have been sold to Aker France for the NCL F3 series. Italian shipbuilder Fincantieri will receive another twenty MaK 12 M 43 C engines for newbuilding projects for Holland America Line (HAL), Costa Crociere and Cunard Line. In total, CMPS has already sold about 400 MW of M 43 C vee-type power into cruise vessels.

Leif Gross, Sales Director Global Cruise Projects at Caterpillar Marine Power Systems in Hamburg, comments, “The design of the VM 43 C makes it a perfect match for cruise business. Considering forthcoming IMO II regulation and increased environmental standards in general, it is essential for us to build in capability for both extra power and emissions reduction well beyond current standards.”

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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