

# First Class Engines for First Class Cruisers!

Making Progress Possible



**MAK**

**CATERPILLAR®**

# Caterpillar Cruise and Ferry – Making Progress Possible

For more than 80 years, Caterpillar Inc. has been making progress possible and driving positive and sustainable change on every continent. Caterpillar is the world's leading manufacturer of construction and mining equipment, diesel and natural gas engines, and industrial gas turbines. The company also is a leading services provider through Caterpillar Financial Services, Caterpillar Remanufacturing Services, Caterpillar Logistics Services and other services.

With the launch in 2002 and 2006 of the Vee-type versions of the most successful engine in the industry, the MaK M 43 C, Caterpillar put a strong focus on propelling its position in the growing cruise industry.

Caterpillar offers a broad range of medium-speed engines, rated from 1 MW up to 16 MW to power the needs of the cruise industry. These engines have demonstrated the utmost reliability and minimal cost of operation, while providing the lowest emissions possible.

The beauty of MaK engines is obvious: A modern and robust, but simple design, resulting in the highest operational reliability, easy and quick maintenance and the most economical total cost of ownership. The engine components are designed for an extraordinary long overhaul and lifetime, providing the lowest maintenance cost, while keeping engine up time at a maximum.

By design, the unique long-stroke concept ensures clean and environmentally friendly combustion. With today's proven and durable engine technology, ship operators will not only be able to comply with current, but also future emission regulations.

The results are striking: Equipped with FCT, the M 43 C engines truly can provide invisible smoke emissions at any load point, even with economical burning of heavy fuel oils.

This concept is making the MaK M 43 C series perfect to propel the next generations of cruise ships. The most reputable cruise operations of the world have already chosen Caterpillar for their propulsion needs.

Caterpillar is driven by a commitment to deliver superior value to customers through great products and unparalleled service and support from Caterpillar dealers worldwide. Through our global dealer network, we address our customers' equipment and service needs. This allows our customers to deal with people – and a company – that they know and trust.

**Caterpillar makes your progress possible.**



Full ...

# Caterpillar Cruise and Ferry – References

The most reputable cruise ship companies have selected Caterpillar Marine engines for their new buildings:

Germany's No. 1 cruise company, **AIDA**, has opted for three vessels of the "Sphinx-Class" as well for the new series of three "Club Cruisers" for the proven MaK 9 M 43 C type. All six ships will be delivered by Meyer Werft.

## 4 x 9 M 43 C

Owner :AIDA Cruises, Germany  
Yard Meyer Werft, Germany

Europe's largest cruise operator, **Costa**, receives two ships with a similar propulsion concept.

## 2 x 8 M 43 C

## 4 x 12 M 43 C

Owner :Costa Crociere, Italy  
Yard Fincantieri, Italy



Speed ...

The new "Queen Elizabeth", powered by MaK's 8 and 12 M 43 C engine types, will compliment **Cunard's** fleet of most famous ocean liners in the world.



**2 x 8 M 43 C**

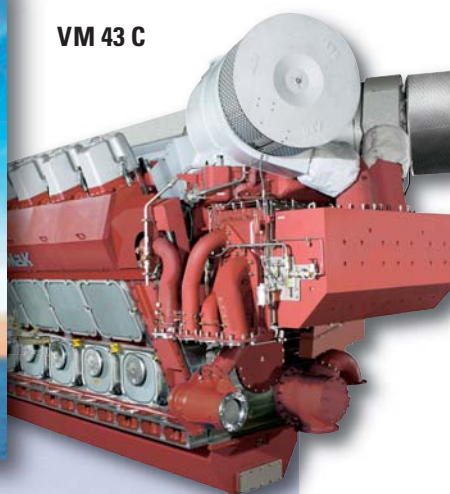
**4 x 12 M 43 C**

Owner :Cunard

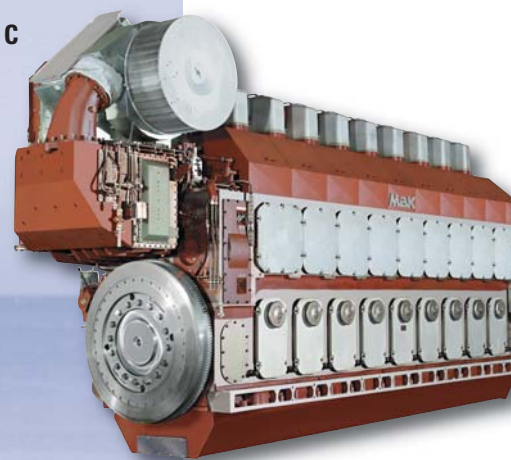
Yard Fincantieri, Italy



**VM 43 C**



**M 43 C**



# Caterpillar Cruise and Ferry – References

The Miami based **Norwegian Cruise Line** will expand it's freestyle concept with two ships of the "F3 Class", under construction at Akeryard in France. 12 and 16 M43 C low emission engines, compliant with DNV's clean ship notation, will power this ship design.

**Fincantieri**, the world wide largest cruise ship builder from Italy will deliver a series of "Signature Class" ships to Holland America Line. This design will be propelled by a combination of in-line and Vee type MaK M43C's.



**2 x 8 M 43 C**

**4 x 12 M 43 C**

Owner :Holland America Line, USA

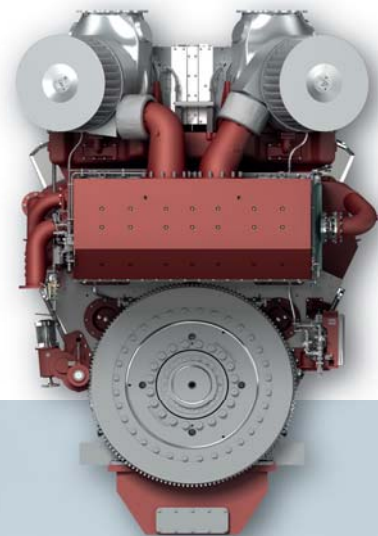
Yard Fincantieri, Italy

**3 x 12 M 43 C**

**3 x 16 M 43 C**

Owner :Norwegian Cruise Line, USA

Yard Aker, France



Full Speed Ahead!

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