



Future Chinese crew and scientists to be trained on state-of-the-art equipment from MAN B&W Diesel

Complete propulsion package for Chinese training vessel

Copenhagen, 20 October 2005: MAN B&W Diesel A/S, Denmark, has been awarded the contract to supply a complete propulsion package, including computer controlled surveillance, for Dalian Maritime University's new 2250-ton ocean-going training ship.

As the largest maritime university in China, Dalian Maritime University (DMU) enjoys a high reputation internationally as a centre of excellence for maritime education and training. The DMU is made up of 12 colleges and 4 departments and has approximately 15,000 students. Since 1953, DMU has trained over 40,000 highly competent personnel, the majority of whom have become the backbone of the navigation sector.

Sales Manager, Zhang Lei, from MAN B&W Diesel China explains: "The DMU training ship project was started some years ago, with the aim of training the next generation of seafarers. To integrate theory with practice, students will be trained on the ship for about 2 months after 2 year's theoretical education in the classroom and will be trained on the ship for another 4 months before they graduate."

The solution chosen for the propulsion plant is a package that includes an MAN B&W Diesel 6S35MC engine, controlled by an MAN B&W Diesel Alphasonic 2000 control system. This widely respected main engine design will be

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the principal source of power for the MAN B&W Diesel controllable pitch (CP) propeller and shaft generator.

Professor Dong from the DMU states, "As a world-renowned maritime university, this is the first time DMU has built a pure training vessel for training crew and scientists. It was important, therefore, that the equipment selected should represent the very latest technology, with a high degree of acceptance in the market."

The 6S35MC main engine in the DMU training vessel will be provided with a PTO power take off (tunnel gear) to drive a shaft generator. To further facilitate the operation of the ship, it will be equipped with a CP propeller that runs at a constant rate of revolutions.

Alpha Lubricators

For optimal cylinder lubrication, the engine is equipped with MAN B&W Diesel's electronically controlled Alpha Lubricators.

This system supplies the optimal solution, not only in terms of savings in lube oil costs, but also considers environmental aspects as it has a positive impact on emissions.

The Alpha Lubricators and Alphasonic 2000 control system gives the opportunity for engineers to learn about the management and control of the vessel's electronic equipment.

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Everything from one maker

The total solution package will be delivered in June 2006 from MAN B&W Diesel in Frederikshavn, Denmark.

To maintain the propulsion plant, DMU has acquired the latest IT technology. The Computer Controlled Surveillance (CoCoS) Maintenance package is MAN B&W Diesel's own in-house system, and has been specifically developed for the surveillance, diagnostics and maintenance of diesel engine plants.

The CoCoS Maintenance system comprises Electronics Spare Part Catalogue, Stock Handling and Purchasing, Maintenance Planning and Trace Component Management modules.

The CoCoS Maintenance package has an open infrastructure that not only covers MAN B&W Diesel machinery, but also gives the user the ability to select other equipment to be implemented within the CoCoS Maintenance system.

One of the obvious advantages of the MAN B&W Diesel CoCoS Maintenance system is that it has been developed with all the required specific engine data already built in. This makes it substantially more attractive than competitor systems, which provide only the software, without the necessary 'hard' data.

The packaged solution from MAN B&W Diesel will allow DMU students to become familiar with the most popular equipment in the industry, making them well equipped to deal with scenarios they can expect to be confronted with in

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future. MAN B&W Diesel is very proud to have been chosen as the supplier of the whole propulsion system.

Propulsion package particulars:

Main engine: 6S35MC - 4440 kW
CPP: VBS 980-ODS
Remote Control: Alphatronic 2000
PTO: Tunnel Gearbox model BWIV-S35/GCR650-50
Maintenance system: CoCoS EDS & CoCoS Maintenance

Main particulars of the DMU training vessel:

Loa: 116 m
Lbp: 105 m
Breadth: 18 m
Draught: 5.4 m
Deadweight: 2,250 t
Speed: 17.3 knots
Range: 10,000 miles at 16.7 knots
Crew: 32
Students: 204
Class: The vessel is classed by CCS with unrestricted service area.



DMU training vessel designed by SDARI – the renowned Chinese Shanghai Design and Research Institute – and will be built at Wuchang Shipyard, Hubei, China: the biggest, most modern and comprehensive shipbuilding enterprise in inland China.



MAN B&W Diesel S35MC two-stroke main engine

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About MAN B&W Diesel

MAN B&W Diesel is the World's leading designer of large-bore diesel engines. The company designs two- and four-stroke diesel engines, generating sets, turbochargers and CP propellers, which are manufactured by MAN B&W Diesel and its licensees. Engine outputs range from 800 to 97,300 kW. MAN B&W Diesel has approximately 6,700 employees, located in Germany, Denmark, UK, France, Czech Republic and China. The company's worldwide service network consists of Authorised Repair Shops and service centres. MAN B&W Diesel is a subsidiary of the German industrial group MAN AG.

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