



Fig. 10 CPP, HR nozzle and tunnel construction after modification.



Fig. 11 Transport of the stem section with a weight of 40 tonnes.

with an input power of 4500 kW, are equipped with 3400 mm Lips controllable pitch propellers running in Lips HR Nozzles.

Each thruster is powered by a horizontal electric motor. To generate the electric power Wärtsilä supplied three generating sets of type 8L32. Each engine, rated at 3840 kW, runs on HFO.

The two thrusters are capable of generating an extra thrust of 160 metric

tonnes in bollard condition. An elevation of the installed thrusters is given in Figure 7.

Propulsion expertise for the most complex needs

With its long history in the hydrodynamic design and production of propellers, Wärtsilä has extensive experience of complex propulsion needs. The delivery of the retractable thrusters and upgrading of the existing propeller demonstrates once

again that the company is a capable partner in conversion projects.

The design of Wärtsilä's products ensures a long life and reliable operation for the propulsion system. No matter what propulsion system is required, the dedicated and professional engineering team of the company can handle the most complex propulsion needs in newbuilding or conversion projects. ■

Just five weeks

Wärtsilä in Norway delivered a complete new CPP installation for M/V Haneburg, Phoenix Reederei, Germany in just five weeks.

In late autumn 2003 the multipurpose cargo vessel M/V Haneburg had an accident near Taiwan and the CPP installation on board suffered heavy damage.

A call for help was sent out on 23 October from Wärtsilä Propulsion Deutschland GmbH to all Wärtsilä Propulsion offices – a new propeller needed to be delivered in the last week of November.

Here was another opportunity for Wärtsilä to prove itself and within a few hours Norway came back with a positive answer. A meeting took place at Phoenix Reederei's office in Leer, Germany, the scope of supply discussed and a letter of intent signed – the decisive factor being the five-week delivery and a fair price.

This order allowed Wärtsilä to change the damaged competitive CPP to one of its own brand.

Breaking records

To achieve the record-breaking delivery time of five weeks the design, purchasing and production teams were spurred into immediate action to produce a Lips CPS 115 hub with a shaftline length of 9251 mm. The propeller diameter is 5250 mm; each of the four blades, made of CUNIAL, weighs more than 1.2 tonnes and, in addition, new sterntube seals and bearings had to be made.

The CPP installation and accessories were all delivered to Phoenix Reederei, as agreed, on time.

"We feel honoured by the trust Phoenix Reederei has put in us and we are proud that we were allowed to help," said Claus Banisch, Sales Manager of Wärtsilä Propulsion Deutschland GmbH.

A spokesman from Wärtsilä Propulsion Norway AS added: "This order proves the importance of co-operation between a client and the supplier when you offer a custom-made 'one-stop solution' as we do in Wärtsilä." ■