STERN TUBE LINE BORING ON PASSENGER VESSEL IN SAUDI ARABIAN SHIPYARD

BORING RECTIFIES VIBRATION PROBLEM

Namma Shipping Lines, owner of the Mahabbah, a 240,550 DWT Passenger/Ro-Ro vessel, contacted Goltens to investigate and rectify long-term shaft vibration issues. The vessel, over 40 years old, had experienced normal wear and tear on the shafts and resultant damage to all of the bushes.

The vessel would be drydocked at Jeddah Shipyard and Goltens was engaged to perform calibration and alignment checks on the Port and Starboard stern tubes and to line bore the shafts as required.

Goltens mobilized technicians, set up the tooling and performed the alignment checks and reported the results to the owner. Based upon the findings both Port and Starboard stern tubes required line boring.

Goltens fabricated the required mounting brackets to mount the line boring tools and bored the three 1.8, 1.4 and 0.75 meter sections over a length of about 18 meters to the required diameter.

STERN TUBE BORING REPAIRS:

- Calibration & Alignment checks Port/Starboard stern tubes
- Line boring of Port & Starboard Stern Tube sections of 1.8, 1.4 and 0.75 meters sections over a length of about 18 meters to the required diameters of 464.00, 462.00 and 460.00mm.

RESULTS:

Goltens’ team successfully line bored the largest stern tubes ever undertaken in the Jeddah Yard eliminating the long term vibration problem with the Port and Starboard shafts.

CUSTOMER TESTIMONIAL:

“We opted for Goltens for their strong reputation & core specialization in In-Situ precise machining. With their quick mobilization of team & specialized tooling & necessary assistance from Jeddah Shipyard, the boring was performed to our contentment and within the time frame. We would definitely utilize Goltens for any such specialized requirement in future.”

K.S. Abdul Majid
Bunker Operations Manager
Namma Shipping Lines

PROJECT FACTS:

<table>
<thead>
<tr>
<th>Vessel Type</th>
<th>MAHABBAH</th>
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<tbody>
<tr>
<td>Main Engine</td>
<td>Passenger Vessel/Ro-Ro</td>
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<tr>
<td>Vessel Tonnage</td>
<td>2 x Pielstick 18PC2V-400</td>
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<td>Shaft Diameter</td>
<td>1,968 DWT</td>
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<td>460mm</td>
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Calibration checks on stern tube to determine ovality/extent of damage