

Vol. XXII No.3

# CASESTUDY

## Belzona Protects Fast Ferry Bow Thrusters From Cavitation



Localized damage to Belzona<sup>®</sup> 1341 (Port)



Extensive damage to Glass Flake lining (Starboard)



Belzona® 2141 (Portside)



Inspection after 5 years service

### **STATISTICS**

CUSTOMER Scandinavian fast ferry operator

APPLICATION DATE January 2002

SUBSTRATE

Aluminum

PRODUCTS Belzona® 1111 Belzona® 2141

#### **APPLICATION SITUATION**

Bow Thrusters from a 900 Passenger High Speed Service Ferry capable of 38 knots.

#### PROBLEM

Cavitation problems had manifested themselves in the Port and Starboard Bow Thruster Tunnels. Annual repairs had been attempted with glass flake coatings and Belzona® 1341, but none had been ideal allowing metal loss to continue in the tunnel.

#### **APPLICATION METHOD**

Following removal of the existing coatings Belzona<sup>®</sup> 2141 was applied in accordance with a modified version of SOS-1 & 2.

#### **BELZONA FACTS**

Subsequent annual inspections, most recently in 2007, have shown the Belzona<sup>®</sup> 2141 to provide outstanding cavitation protection reducing the annual docking cycle from annual to bi-annual for the client. The client is intending to coat the other non-Belzona protected areas as a result.

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