

Underwater Exhaust Repaired on a 230' Super Yacht

ID: 7808

Industry:

Customer Location: Florida, USA

Application:

Application Date: November 2018

Substrate: Steel

Products: * Belzona 1511 (Super HT-Metal) ,

* Belzona 1391T ,

Problem

Elbow metal pitting and thinning. Heat from the exhausts gets to 70C.



Photograph Descriptions

- * From the engine room view of the top of the underwater exhaust ,
- * Damage of the underwater exhaust ,
- * Application of Belzona 1511 to various damaged areas inside the exhaust ,
- * Final coat of Belzona 1391T grey ,

Application Situation

Elbow of a 7'L x 19"D underwater starboard exhaust for the main engines.

Application Method

The application was carried out in accordance with modified versions of Belzona Know-How System Leaflets SOS-1 and SOS-2. The surface was prepared by abrasive blast cleaning. A containment was created on both ends of the exhaust to protect the engine room and to protect the exposed blasted steel from the outside elements. The surface was blast cleaned to a near white metal finish to achieve a 3 mill angular profile to apply the Belzona protective system. Belzona 1511 was used to rebuild damaged surfaces, and Belzona 1391T was applied to add protection.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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Belzona Facts

The 230' custom super yacht was in a dry dock for its annual maintenance. The ship will have its 20 year inspection and overhaul in 2020 at which time both underwater exhausts will be removed and replaced with new ones. The current inspection showed signs of wear on the exhaust elbow of the steel substrate. The alternative solution was a costly procedure of removing the underwater exhaust and replacing it with a new one. The Customer saved on downtime and repair costs.

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