

STAINLESS STEEL PROPELLER REPAIR AND PROTECTION

ID: 9411



PROBLEM

Areas of cavitation damage

APPLICATION SITUATION

Vessel owner was in a rush to get the vessel back in service. Removing the propellers for outside repairs would not fit the timeframe allowed. Based on previous case studies, the owner and shipyard agreed on the application.

APPLICATION METHOD

Tips of blades were grit blasted to a minimum of 3mils. Cavitation pockets were filled with Belzona 1311. For protection, Belzona 1341 was applied in a 10mil coat. Belzona 2941 surface conditioner was then applied followed by a 30mil coat of Belzona 2141.

BELZONA FACTS

Replacing the propellers was not an option based on availability. Repair by welding required removing the parts and sending them to an outside shop.

INDUSTRY

Marine

LOCATION

Seattle

APPLICATION DATE

May 2024

PRODUCTS

Belzona 1311 (Ceramic R-Metal)
Belzona 1341 (Supermetalgilde)
Belzona 2141 (ACR-Fluid Elastomer)
Belzona 2941 (Elastomer SP-Conditioner)

SUBSTRATE

Stainless-steel

PHOTOS

1. Tips of blades grit blasted
2. 1st coat applied was Belzona 1341
3. 2nd coat applied was Belzona 2141
4. Vessel ready to return to service

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