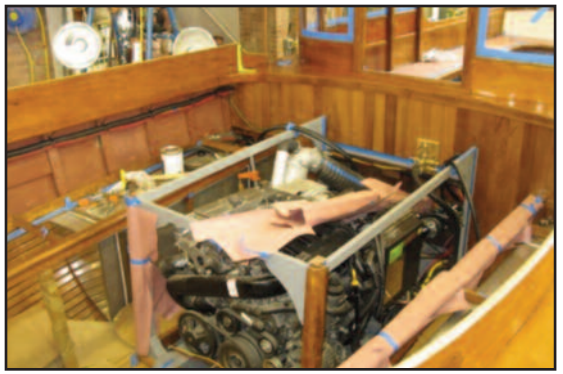
aquadrive®
antivibration system

Application Profile

Vessel: 36 ft launch carried on J.P Morgan's yacht "Corsair"
Naval architects: Herreshoff Manufacturing, Design #409
Builder: Herreshoff Manufacturing, Bristol, RI - 1939
Restoration: International Yacht Restoration School - 2009
Application: Gentleman's launch
Power: Yanmar 4BY diesel engine
Drive shaft alignment: CV15 custom length CV drive shaft with thrust bearing and softer Aquadrive engine mounts

The last remaining 36 ft special launch carried onboard J.P. Morgan's primary yacht "Corsair" was restored in 2009. For diesel power, a Yanmar 4BY engine was chosen for its light weight and reliable performance. Its configuration, however, did not align with the existing shaft. An Aquadrive System protects the integrity of the original structure and layout of the boat by enabling the new engine to be installed without extensive modifications. Utilizing a custom length tubular CV drive shaft, the new Yanmar was installed 1-1/2" higher than the propeller shaft and stern tube centerline. Since Aquadrive CV joints permit offsets and angles, the engine was able to fit the existing, available machinery space. The CV axle also lets the engine float freely without the restraints of alignment to the propeller shaft. This reduces vibration and noise. An Aquadrive thrust bearing stabilizes the propeller shaft alignment to a fixed bearing on a rigid support plate instead of a dancing engine.



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