

Bearing Clearances of Rudder Stocks and Pintles

Amended Rules

Rules for the Survey and Construction of Steel Ships Part C and CS

Reason for Amendment

IACS Unified Requirement (UR) S10 related to rudders, sole pieces and rudder horns, specifies the minimum values for the bearing clearances in cases where non-metallic bearing materials are used.

In the case of certain non-metallic bearings, some bearings, however, functionally perform just as well as at bearing clearances that are even smaller than the minimum bearing clearance specified in UR S10.

In consideration of the above, IACS decided to allow a bearing clearance smaller than the specified minimum clearance to be used on the condition that a smaller clearance is supported by the manufacturer's recommendation and there is documented evidence of satisfactory service history with a reduced clearance. This revised version was adopted as UR S10 (Rev.3) in March 2012.

Accordingly, relevant requirements were amended based on the UR S10 (Rev.3).

Outline of Amendment

In the case of non-metallic bearing materials, requirements were added which allow a bearing clearance smaller than the specified minimum clearance to be used on the condition that a smaller clearance is supported by the manufacturer's recommendation and there is documented evidence of satisfactory service history with a reduced clearance.