M25 Astern power for main propulsion

(1975) (Rev.1 1984) (Rev.2 1997) (Rev.3 July 2003)

M25.1 In order to maintain sufficient manoeuvrability and secure control of the ship in all normal circumstances, the main propulsion machinery is to be capable of reversing the direction of thrust so as to bring the ship to rest from the maximum service speed. The main propulsion machinery is to be capable of maintaining in free route astern at least 70% of the ahead revolutions.

M25.2 Where steam turbines are used for main propulsion, they are to be capable of maintaining in free route astern at least 70% of the ahead revolutions for a period of at least 15 minutes. The astern trial is to be limited to 30 minutes or in accordance with manufacturer's recommendation to avoid overheating of the turbine due to the effects of "windage" and friction.

M25.3 For the main propulsion systems with reversing gears, controllable pitch propellers or electric propeller drive, running astern should not lead to the overload of propulsion machinery.

NOTES:

1. The head revolutions as mentioned above are understood as those corresponding to the maximum continuous ahead power for which the vessel is classed.

2. The reversing characteristics of the propulsion plant are to be demonstrated and recorded during trials.

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