

Abstract

As a result of the increased attendance in the polar regions, accidents and air pollution have expanded sharply. Assistance to ships stuck in ice is also more common. The introduction of the Polar Code and guides for construction oblige the manufacturers to innovate and adapt the ships to the cold conditions of the polar zones. The challenge of the engine room is fully realised when the ship needs to get out of the pack because the road has become too congested or to fight a fire amid of icebergs. The study of the different types of propulsion that can be found on board ships highlights the pollution linked to the emission of exhaust gases. The choice of propulsion is made according to the use of the ship and the power that we want to give it. Besides, there are far more technical problems on board such vessels than usual. It is essential to pay particular attention to the auxiliary installations and the temperatures of the liquids in the pipes. Finally, there are several solutions to limit pollution from ships in these fragile ecosystem areas.