

Ships and marine technology — Machinery-space flammable oil systems — Prevention of leakage of flammable oil

ICS 47.020.20

National foreword

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 17 and a back cover.

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Amendments issued since publication

Amd. No.	Date	Comments

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 January 2006

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INTERNATIONAL STANDARD

**ISO
18770**

First edition
2005-09-01

Ships and marine technology — Machinery-space flammable oil systems — Prevention of leakage of flammable oil

*Navires et technologie maritime — Systèmes d'huiles inflammables
dans les salles de machines — Lignes directrices pour la prévention de
fuites d'huiles inflammables*



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Foreword

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ISO 18770 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 3, *Piping and machinery*.

Introduction

Fuel oil, lubricating oil and other flammable oil system failures are a major source of shipboard fires. This International Standard specifies the measures that shall be taken to reduce fires originating from machinery-space flammable oil systems, and is intended for designers, shipyard personnel, engine-room personnel, owners, operators and maintenance personnel. Requirements contained herein address the design, construction, testing, installation, maintenance and inspection of systems containing flammable oils.

It is the intent of this International Standard to supplement and provide guidance in support of the following International Maritime Organization circulars, with the eventual goal of replacing these circulars.

- MSC/Circular 647 (1994), “*Guidelines to Minimize Leakages from Flammable Liquid Systems*”, a supplement for SOLAS Regulation II/2-15 (“*Arrangements for Flammable Oils*”). It addresses several aspects of the fuel oil, lubricating oil and other flammable oil systems, such as hoses, spray shields, insulation, connectors, joints and supports.
- MSC/Circular 851 (1998), “*Guidelines on Engine-Room Oil Fuel Systems*”, a supplement to MSC/Circular 647. This circular addresses causes of oil fuel leakage, which sometimes result in machinery space fires. It discusses design, installation, maintenance and inspection issues, and explains some contributing factors such as frequent dismantling, short-duration pressure pulses, and vibration.

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