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**Ships and marine technology — Marine  
environment protection: performance  
testing of oil skimmers —**

**Part 3:  
High viscosity oil**

*Navires et technologie maritime — Protection de l'environnement marin:  
essais de performance des écumeurs du pétrole —*

*Partie 3: Pétrole haute densité*



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# Contents

Page

Foreword .....	iv
Introduction .....	v
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	1
4 Test facility requirements .....	2
4.1 General .....	2
4.2 Oil properties .....	2
4.3 Air and water temperature .....	3
4.4 Oil slick thickness .....	3
4.5 Measuring tanks .....	3
5 Clearance requirements .....	3
6 Test parameters .....	3
6.1 General .....	3
6.2 Test oil properties .....	3
6.3 Oil slick thickness .....	4
6.4 Skimmer operating parameters .....	4
6.5 Debris interference .....	4
6.6 Skimmer movement through slick .....	5
7 Test procedures .....	5
7.1 Preparations prior to testing .....	5
7.2 Actions during testing period .....	6
7.3 Actions after testing .....	6
8 Performance parameters .....	6
8.1 General .....	6
8.2 Fluid recovery rate .....	6
8.3 Oil recovery testing rate .....	7
8.4 Oil recovery efficiency .....	7
9 Measurements and reporting .....	7
9.1 General .....	7
9.2 Oil properties .....	7
9.3 Environmental parameters .....	7
9.4 Skimmer operating parameters .....	7
9.5 Other test parameters .....	8
9.6 Recovery parameters .....	8
9.7 Performance parameters (calculated parameters) .....	8
9.8 Equipment specification and test documentation .....	8
10 Quality control .....	8
10.1 Test duration and fluid volume .....	8
10.2 Repetitions .....	9
Bibliography .....	10

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 21072-3 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 2, *Marine environment protection*.

ISO 21072 consists of the following parts, under the general title *Ships and marine technology — Marine environment protection: performance testing of oil skimmers*:

- *Part 1: Moving water conditions*
- *Part 2: Static water conditions*
- *Part 3: High viscosity oil*

## Introduction

ISO 21072 standardizes performance testing of oil skimmers used in marine pollution control.

Some oil skimmers have previously been performance tested under non-standard conditions and procedures, with declared performance parameters being of limited value to the end user, especially under field conditions.

ISO 21072 provides for carrying out and recording the results of full-scale tests for a skimmer under a variety of test conditions.

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# **Ships and marine technology — Marine environment protection: performance testing of oil skimmers —**

## **Part 3: High viscosity oil**

### **1 Scope**

This part of ISO 21072 specifies a methodology for establishing quantitative performance data for oil skimmers for recovery of oil with high viscosity, so the end user can objectively judge, compare and evaluate the design and performance of different skimmers. The methodology applies to testing in a basin and requires control of oil properties and oil slick characteristics.

The method is applicable to all types of skimmer provided that the equipment dimensions are within the physical limitations of the test basin. The test procedure provides full-scale test results for the unit tested, under controlled conditions, and for one or more classes of highly viscous oil. Attention is drawn to the care required when applying the test results to predict a realistic skimmer performance under field conditions.

For dedicated/inbuilt systems the test procedures outlined in this part of ISO 21072 are only applicable to the skimming device as such, not the entire skimming system.

### **2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 16165, *Ships and marine technology — Marine environment protection — Terminology relating to oil spill response*

ISO 21072-1, *Ships and marine technology — Marine environment protection: performance testing of oil skimmers — Part 1: Moving water conditions*

### **3 Terms and definitions**

For the purposes of this document, the terms and definitions given in ISO 16165, ISO 21072-1 and the following apply.

#### **3.1**

##### **high viscosity oil**

oil that due to its properties does not readily flow to a skimmer