ISO 13643-3:2017-02 (E)

Ships and marine technology - Manoeuvring of ships - Part 3: Yaw stability and steering

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Test-related physical quantities 2

5 General test conditions 5

6 Test 3.1 -- Pull-out test 6
6.1 General 6
6.2 Analysis and presentation of results of a pull-out test 6
6.3 Designation of a pull-out test 7

7 Test 3.2 -- Direct spiral test (according to Dieudonné) 7
7.1 General 7
7.2 Description 7
7.3 Analysis and presentation of results of a direct spiral test (according to Dieudonné) 8
7.4 Designation of a direct spiral test (according to Dieudonné) 9

8 Test 3.3 -- Reverse spiral test (according to Bech) 9
8.1 General 9
8.2 Description 10
8.3 Analysis and presentation of results of a reverse spiral test (according to Bech) 10
8.4 Designation of a reverse spiral test (according to Bech) 11

9 Test 3.4 -- Weave test 12
9.1 General 12
9.2 Description 12
9.3 Analysis and presentation of results of a weave test 13
9.4 Designation of a weave test 13

10 Test 3.5 -- Astern test 13
10.1 General 13
10.2 Description 14
10.2.1 Description of the direct astern test 14
10.2.2 Description of the astern zig-zag test 14
10.3 Analysis and presentation of results of an astern test 15
10.3.1 Analysis of a direct astern test 15
10.3.2 Analysis of an astern zig-zag test 16
10.4 Designation of an astern test 16
10.4.1 Designation of a direct astern test 16
10.4.2 Designation of an astern zig-zag test 16

11 Test 3.6 -- Sine test 16
11.1 General 16
11.2 Description 17
11.3 Analysis and presentation of results of a sine test 17

11.4 Designation of a sine test 19

Bibliography 20