DIN EN 17763:2022-12 (E)

Centrifuges - Marine fuel centrifuges - Determination of particle separation performance and certified flow rate (CFR) under defined test conditions

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Test arrangements 6
4.1 Test equipment 6
4.2 Test media 8
4.2.1 Test oil specification 8
4.2.2 Test oil kinematic viscosity 8
4.2.3 Test oil density 9
4.2.4 Test oil dispersing additive 9
4.2.5 Test particle specification 9

5 Performance test 9
5.1 Oil viscosity 9
5.2 Particle concentration 9
5.3 Dispersing of particles into test medium 9
5.4 Test sequence 10
5.5 Test procedure 10
5.6 Sampling 10
5.7 Particle counting 11

6 Analysis 11
6.1 Calculation of separation efficiency 11
6.2 Calculation of the 85 % efficiency point 11
6.3 Correction of measured capacities 12
6.4 Calculation of certified flow rate (CFR) 13

7 CFR results for similar machines (scaling) 13

8 Test report 13

Annex A (informative) Dispersing the particles in the test medium 14

Annex B (informative) Regeneration of test particle concentration 15

Annex C (normative) Particle counting 16

Annex D (informative) Example of correction of measured capacities 27

Bibliography 28