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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Small craft -- Static thrust measurement for outboard motors
(English Translation)**

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Foreword

This Standard equivalently adopted ISO 13342:1995 Small Craft - Static Thrust Measurement for Outboard Motors.

This Standard was proposed by China State Shipbuilding Corporation.

This Standard shall be under the jurisdiction of 708 Institute of China State Shipbuilding Corporation.

Drafting organization of this Standard: 708 Institute of China State Shipbuilding Corporation.

Chief drafting staffs of this Standard: Li Zhensheng, Lin Dehui, and Wang Zhongzheng.
Small Craft - Static Thrust
Measurement for Outboard Motors

1 Scope

This Standard specifies the method for measuring and declaring the forward and reverse thrust of outboard motors in a stationary situation to determine if start-in-gear protection, as specified in ISO 11547, is required.

2 Normative References

The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. At the time of publication, the editions indicated are valid. All standards are subject to revision. The parties who are using this Standard shall explore the possibility of using the latest version of the following standards.

ISO 11547:1994 Small Craft - Start-in-Gear Protection

3 Definitions

For the purposes of this Standard, the following definitions apply.

3.1 Thrust

Horizontal force, in newtons, which the outboard motor is capable of producing.

3.2 Declared value of maximum thrust

Average of the thrust measurement that can be maintained for not less than 10 s within $\pm 10\%$ of fluctuation at a particular throttle setting.

4.1 When testing production outboard motors for formal declaration, the test unit shall

be representative of the manufacturer's production units.

4.2 The test outboard motor shall be run-in, operated and adjusted in accordance with

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