



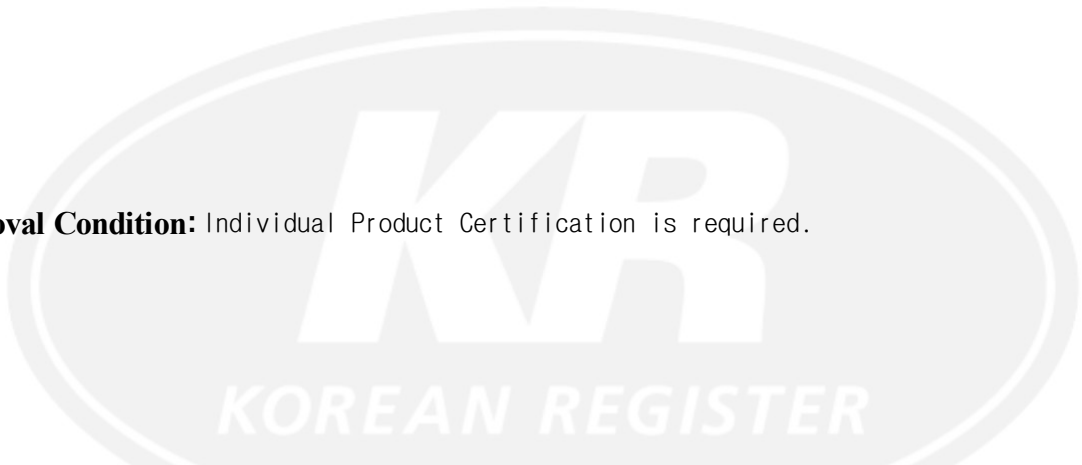
# APPROVAL CERTIFICATE FOR MANUFACTURING PROCESS

**Certificate No.** : CWN00585-SC001                      **Initial Approval** : 15th July, 1982  
**Product** : Castings  
**Manufacturer** : Doosan Heavy Industries & Construction Co., Ltd.  
22, DoosanVolvo-ro, Seongsan-gu, Changwon-si, Gyeongnam, Korea

**Product Description:** Carbon Steel Castings

- Grade : RSC or equivalent grade
- Casting process : Sand casting
- Casting weight : max. 350 ton
- Main products : Rudder horn, stern tube, etc.

**Approval Condition:** Individual Product Certification is required.



**THIS IS TO CERTIFY** that the manufacturing process for the above mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturer and Type Approved Equipment".

Pt.2, Ch.1, Art.501 of the Rules for Classification of Steel Ships.

This Certificate is valid until 14th July, 2024  
Issued at Changwon, Korea on 19th June, 2019



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME19015203992) and certificate No.(CWN00585-SC001).



**KOREAN REGISTER OF SHIPPING**

*General Manager of  
Changwon Branch Office*

- Note :**
1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
  2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
  3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
  4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.