

No. : TA23647E

Date : 12 June 2023

## PARTICULARS OF APPROVAL

### Approval Conditions for Manufacturing Process of Rolled Steels for Hull

- |                            |   |
|----------------------------|---|
| 1. Manufacturer            | : Hunan Valin Lianyuan Iron & Steel Co., Ltd. |
| 2. Kind of Product         | : Steel Coils                                 |
| 3. Grade                   | : KA, KB, KD, KA36 and KD36                   |
| 4. Deoxidation Practice    | : Killed                                      |
| 5. Grain Refining Elements | : See Table                                   |
| 6. Max. Thickness          | : See Table                                   |
| 7. Condition of Supply     | : TMCP (AcC)                                  |
| 8. Steel Making Process    | : Basic oxygen furnace                        |
| 9. Casting Process         | : Continuous Casting                          |
| 10. Remarks:               |   |

In the case where the steel coils manufactured by Hunan Valin Lianyuan Iron & Steel Co., Ltd. are uncoiled by other manufacturer, test certificates of steel coils are to include the description that the steel coils are to be uncoiled and cut by a manufacturer approved by NIPPON KAIJI KYOKAI in terms of the uncoiling and cutting processes in accordance with 3.1.1, Chapter 3, Part K of the NK Rules and K3.1.1., K3, Part K of the NK Survey Guidance.



(to be cont.)

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Table Part of Approval Conditions

Grade	Grain Refining Elements	Max. Thickness (mm)
KA	Al	25
KB		
KD		
KA36	Al-Nb-Ti	20
KD36		

Y. Takao  
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 Material and Equipment Department