



NIPPON KAIJI KYOKAI

CERTIFICATE

Certificate No. 909200054-M

This is to certify that as a result of examination, the undernoted welding procedure proposed by Messrs. Polestar Marine Engineering Co., Ltd. has been approved in accordance with the requirements of Chapter 11, Part D of the Society's Rules with the following conditions:

Welding Procedure of Build-up Welding for Piston Rod

Welding process:	Submerge Arc Welding
Applicable material:	S45C-N for piston rod of RTA type diesel engine (Carbon contents is to be less than 0.48%) SF590A for piston rod of UEC type diesel engine (Carbon contents is to be less than 0.50%)
Welding consumable:	██████████ ██████████ ██████████
Sealing method:	██████████ ██████████
Welding condition:	Procedure and control standard described in the welding procedure specification Doc. No. QQ-C-14-02 approved on 1 March 2010 are to be strictly observed.

Issued at Tokyo on 1 March 2010.

T. Narisawa
General Manager
Machinery Department

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