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Lloyd's Register of Shipping,

71, Fenchurch Street, E.C.3.

13th February, 1939.

Dear Sir,

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I am advised by Messrs. Burmeister & Wain's Maskin-og Skibsbyggeri that you wish to be informed of the circumstances attached to the acceptance by this Society of one of the engines for installation in the vessel building to your order by Messrs. Aalborg Vaerft A/S., their Yard No.64, in which some girders made of Bessemer Steel have been included in the welded bedplate and crank case.

With regard thereto I have to state that, in accordance with this Society's Rules, rolled steel or forged steel used in the construction of engines and boilers is to be made by the Open Hearth Process, and hitherto this Rule has been rigidly observed to the entire exclusion of Bessemer Steel.

Until recent years, bedplates have been made of cast iron, but welded steel bedplates are now in fairly common use and Messrs. Burmeister & Wain state that the calculated stress in the parts in question is low, this being confirmed by calculations made in this Office. The actual stress allowed is only about 25% greater than that

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Messrs. Aalborg Vaerft's
Yard No. 64.

used in cast iron construction, whereas the tensile strength of the steel is nearly three times as great as that of cast iron.

Tensile and bend test pieces, six in all, have been cut from the actual girders and tested by the Society's Surveyors with satisfactory results, and, in addition, impact tests, which the Society's Rules do not require to be made on rolled steel, have also been carried out and the results were satisfactory.

Further, the running trials of the engine in question have extended over a considerable period of time, and it is stated that there are no indications whatsoever of any defects in the material or in the bedplate as a whole.

In all the circumstances of the case, the Committee decided to accept this engine for installation in the vessel, subject to your being made fully aware of the facts and your written consent being obtained.

I am, Dear Sir,
Yours faithfully,

J. Lauritzen, Esq.,
Hammerensgade 1,
COPENHAGEN, K.,
Denmark.



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Foundation

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