

# Lloyd's Register of Shipping.

Year: 1805.

Surveyors' Office, DÜSSELDORF.

is to certify, that Josef Loogen the undersigned surveyor to this Society tested in  
 works of Messrs. Gutehoffnungshütte A. G. of Oberhausen  
unsealed Siemens Martin Boiler steel plates specified hereunder, ordered  
Messrs. Hitachi Works of Yagasaki  
 the ship No. 472 Boiler No. \_\_\_\_\_ and that the results of tests were as are set forth below.

| Dimensions.<br><i>in mm</i> |          |                 | Intended for     | sample<br>number | Charge-<br>number | Tensile tenacity<br><i>kg. pr. sq. mm</i> |               |             | Elongation<br>in 200 mm.<br><i>in %</i> | Bending<br>tests. |               | Remarks. |
|-----------------------------|----------|-----------------|------------------|------------------|-------------------|---|---------------|-------------|---|-------------------|---------------|----------|
| Length.                     | Breadth. | Thick-<br>ness. |                  |                  |                   | As per<br>rules.                          | Ord-<br>ered. | By<br>test. |   | Cold.             | Tem-<br>pered |          |
| <i>To sketch</i>            |          | <i>25.5</i>     | <i>End plate</i> | <i>54</i>        | <i>52949</i>      | <i>41/42</i>                              | <i>41/42</i>  | <i>42.1</i> | <i>29</i>                               | <i>good</i>       | <i>good</i>   |          |
|                             |          |                 |                  | <i>54</i>        |                   |   |               | <i>42.9</i> | <i>28</i>                               | <i>"</i>          | <i>"</i>      |          |

*Düsseldorf 7<sup>th</sup> September 1923.*  
*for Mr. J. Loogen*  
*W. Kellner.*  
 Surveyor to Lloyd's Register

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:—  
 "While the Committee use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Committee nor the Society are under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default, or negligence of the Surveyors, or other Officers or Agents of the Society."  
 N.B.—Material with less than 26 Tons tensile strength may not be used in the construction of boilers for classed vessels, unless specially sanctioned by the Committee.  
 1 Ton per square inch = 1,574 Kilo per square millimeter. 1 Kilo per square millimeter = 0,635 Tons per square inch.

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