

Lloyd's Register of Shipping.

Order: *St. P. A. 429.*

Surveyors' Office, DÜSSELDORF.

This is to certify, that *Walter Berg* the undersigned surveyor to this Society tested in the works of *Thessars. Vereinigte Stahlwerke A.G. Ruhrländer Union* of *Ruhrländer* the *Siemens - Martin* Boiler steel *Round bars* specified hereunder, ordered by *Thessars. Maxima Dockyard & Co.* of *Habana* for the ship No. *189* Boiler No. _____ and that the results of tests were as are set forth below.

Batch-number.	Dimensions. <i>in feet & inches</i>			Intended for	Sample number	Charge-number	Tensile tenacity <i>kg. p. sq. mm</i>			Elongation in 200 mm. in %.	Bending tests.		Remarks.
	Length.	Breadth.	Thick-ness.				As per rules.	Ord.	By test.		Cold.	Tem-pered	
6	12'-3"	Ø	2 1/2"	Long. stays	8	695	44/55	44/50	48.9	24.0	good	good	✓
2	12'-1"	Ø	"	"	9	170	"	"	48.5	24.0	"	"	✓
1	8'-11"	Ø	"	"									✓
3	16'	Ø	2 1/2"	Stay bars	10	854	41/44	41/44	41.2	22.0	"	"	✓
4	18'	Ø	1 7/8"	"	11	"	"	"	42.3	24.5	"	"	✓
11	18'	Ø	1 5/8"	"	12	560	"	"	43.4	26.0	"	"	✓
1	16'	Ø	1"	Rivet bars		960							✓
54	16'	Ø	1 1/8"	"	13	"	"	"	46.3	33.0	"	"	✓

Sulphur print No 13 has been made in the presence of the undersigned and was found to be satisfactory.

Düsseldorf 20th February 1933.

W. Berg
Surveyor to Lloyd's Register

Examined and checked
25/5/33.
CCM

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.

