

Lloyd's Register of Shipping.

Order 13442/147.

Surveyors' Office, DÜSSELDORF.

This is to certify, that Franz Schnell the undersigned surveyor to this Society tested in the works of Hessner Vereinigte Stahlwerke A.G. Stahl- & Walzwerke Thyssen of Mülheim / Ruhr the annealed Siemens Martin Boiler steel plates specified hereunder, ordered by Hessner H. W. Henderson & Co. Ltd. of Glasgow for the ship No. 19 F 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-ered.	By test.		Cold.	Tem-pered	
1	22'	11 7/12"	1 1/8"	Shell plate	17	1345	44/55	44/50	48.8	25.	good	good	
1	20' 9 1/2"	"	"	"	17	"	"	"	46.7	24.	"	"	
2	9' 9 1/2"	18 1/4"	7/8"	Butt straps	46	"	"	"	47.5	25.	"	"	
2	8' 9 1/2"	"	1"	"	43	"	"	"	47.2	23.	"	"	
1	8'	32 1/2"	5/8"	Strengthening pl.	27	1366	"	"	48.0	25.	"	"	
1	"	"	"	"	28	"	"	"	47.3	24.	"	"	
1	18' sketch	"	1 1/8"	Gun plate	47	1415	41/47	41/47	43.5	26.	"	"	
1	"	"	"	"	54	"	"	"	43.8	26.	"	"	
1	"	"	1 3/16"	"	51	1343	"	"	45.1	28.	"	"	
1	"	"	2 5/32"	"	51	"	"	"	42.6	25.	"	"	
1	"	"	"	"	57	1415	"	"	44.0	27.	"	"	
1	"	"	"	"	57	"	"	"	43.0	24.	"	"	
1	9' 8'	53'	1 1/16"	Tube plate	60	"	"	"	44.4	25.	"	"	*
1	7' 8'	59"	"	bank. ch. side	62	1401	"	"	44.7	30.	"	"	
1	"	"	"	"	13	1343	"	"	44.3	25.	"	"	
1	9' 8'	53"	1 1/32"	bank. ch. back pl.	59	1401	"	"	43.6	25.	"	"	
1	7' 8'	59"	"	bank. ch. plate	44	1345	"	"	44.7	24.	"	"	
1	"	"	"	"	52	1387	"	"	44.7	25.	"	"	
1	23' 8"	26 1/4"	5/8"	"	53	1387	"	"	44.8	25.	"	"	
2	20' 4"	"	"	"	58	1407	"	"	43.7	26.	"	"	

Düsseldorf 12th August 1930.

F. Schnell
Surveyor to Lloyd's Register

This Certificate is issued upon the terms of the bye-laws 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.

1m. 5 30

Developed a series of surface cracks while being flanged - Rejected
Replaced by Plate No. 2341 - Lancashire Steel Co. Ltd.
admission attached. 11th Aug 7.10.30