

# REPORT ON BOILERS.

Received at London Office

THU. MAR. 28. 1912

Date of writing Report 26th March 1912 When handed in at Local Office 1912 Port of Bremen

No. in Survey held at Geestmünde Date, First Survey 6th November 1911 Last Survey 30th March 1912

Reg. Book. Sup 56 on the Steel Le Gr. Düsseldorf (Number of Visits 7) Tons } Gross 5877  
Net 3728

Master J. Schmidt Built at Geestmünde By whom built Joh. G. Tecklenborg A.G. When built 1912

Engines made at Geestmünde By whom made Joh. G. Tecklenborg A.G. When made 1912

Boilers made at Geestmünde By whom made Joh. G. Tecklenborg A.G. When made 1912

Registered Horse Power 697 Owners Deutscher Australische Dampfschiff. Ges. Port belonging to Hamburg.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Messrs. Krupp, Rheinische Stahlwerke, Lambach u. Hülshorst, Geestmünde, Düsseldorf

(Letter for record 5) Total Heating Surface of Boilers 19400 Is forced draft fitted Yes No. and Description of

Boiler 1 cylindrical multitubular Working Pressure 206 lb Tested by hydraulic pressure to 412 lb Date of test 15.12.11

No. of Certificate 16 Can each boiler be worked separately Yes Area of fire grate in each boiler 430 No. and Description of

safety valves to each boiler 2 spring loaded Area of each valve 9.850 Pressure to which they are adjusted 206 lb.

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork 23" Mean dia. of boilers 18'9 23/32 Length 10'5 13/16

Material of shell plates S.M. Steel Thickness 15/32 Range of tensile strength 27.9-32.4 Are the shell plates welded or flanged Flanged

Descrip. of riveting: cir. seams double long. seams quadruple Diameter of rivet holes in long. seams 1 1/32 Pitch of rivets 16/18

Lap of plates or width of butt straps 26 1/2 Per centages of strength of longitudinal joint rivets 106.5% Working pressure of shell by

rules 211 lb Size of manhole in shell 11 1/2 x 15 5/16 Size of compensating ring 37 1/32 x 15 5/32 No. and Description of Furnaces in each

boiler 3 Morrison Material S.M. Steel Outside diameter 37 1/32 Length of plain part top 6 1/16 Thickness of plates crown 9/16

Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 257 lb Combustion chamber

plates: Material S.M. Steel Thickness: Sides 43/64 Back 21/32 Top 43/64 Bottom 61/64 Pitch of stays to ditto: Sides 7/2 x 6 3/4 Back 7/16 x 6 1/16

T 1/16 x 7 1/16 stays are fitted with nuts or riveted heads Nuts Working pressure by rules 271 lb Material of stays S.M. Steel Diameter at

smallest part 19/16 Area supported by each stay 47.70 Working pressure by rules 232 lb End plates in steam space: Material S.M. Steel Thickness 13/32

Pitch of stays 14 5/8 x 15 1/2 How are stays secured by nuts Working pressure by rules 235 lb Material of stays S.M. Steel Diameter at smallest part 2 13/16

Area supported by each stay 2290 Working pressure by rules 268 lb Material of Front plates at bottom S.M. Steel Thickness 13/32 Material of

Lower back plate S.M. Steel Thickness 63/64 Greatest pitch of stays 7 4/16 13/8 Working pressure of plate by rules 244 lb Diameter of tubes 2 3/4

Pitch of tubes 3 15/16 Material of tube plates S.M. Steel Thickness: Front 13/32 Back 61/64 Mean pitch of stays 9 13/16 Pitch across wide

water spaces 13 3/4 Working pressures by rules 216 lb Girders to Chamber tops: Material S.M. Steel Depth and thickness of

girder at centre 9 1/16 x 4 3/64 Length as per rule 324 1/2 Distance apart 7 1/16 Number and pitch of Stays in each 3-7 1/16

Working pressure by rules 213 lb Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

## VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

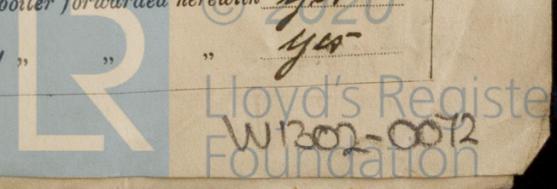
The foregoing is a correct description,  
Joh. G. Tecklenborg A.G.  
Schiffbau und Maschinenbau  
Geestmünde Manufacturer.

Dates During progress of work in shops - 6th November 30th November 15th December

of Survey while building During erection on board vessel - Febr. 6th March 8, 20, 25.

Total No. of visits 7

Is the approved plan of main boiler forwarded herewith Yes  
" " " donkey " " Yes



If not, state whether, and when, one will be sent

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

*See Report on Machinery.*

*Boorman Office.*

*Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)*

The amount of Entry Fee	When applied for.
Special .. .. £	.....19.....
Donkey Boiler Fee .. .. £	When received, .. .. 19.....
Travelling Expenses (if any) £	.....19.....

*Committee's Minute* FRI. MAR. 29. 1912

*Assigned*

*G. H. G. P. A. M.*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.