

# REPORT ON BOILERS.

No. 24599

(Gross 143.42 Net 64.98)

Port of Glasgow Received at London Office  
 in Survey held at Glasgow Date, first Survey 10 Aug Last Survey 28 Sept 1996  
 Book. S.S. "CHANTICLEER." (Number of Visits)  
 on the S.S. "CHANTICLEER." Tons { Gross 143.42 Net 64.98  
 Built at Wall By whom built Wm. Wilson & Gammell When built 1894 1894.6  
 Made at Wall By whom made G.B. Wilson & Co. when made 1894  
 Made at Glasgow By whom made J. Neilson & Son (1853) when made 1906  
 Horse Power 45 Owners Grant & Padden Port belonging to Plymouth

## WATER-TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Stewarts & Lloyds Lt.

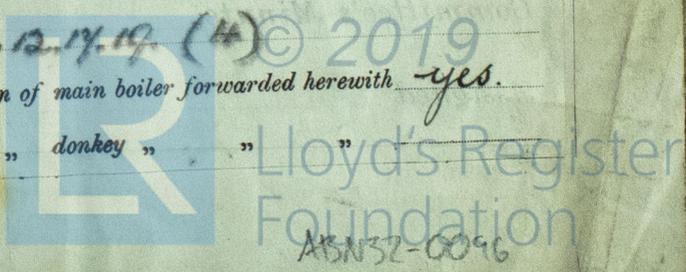
Number for record (5) Total Heating Surface of Boilers 940 sq. ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 160 Tested by hydraulic pressure to 370 Date of test 28/9/06  
 of Certificate 8338 Can each boiler be worked separately  Area of fire grate in each boiler 33 1/3 sq. ft. No. and Description of valves to each boiler Two spring loaded Area of each valve 400" Pressure to which they are adjusted 160 lbs.  
 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 about 8" Mean dia. of boilers 11" 0" Length 9' 6"  
 Material of shell plates steel Thickness 27/32" Range of tensile strength 28 to 37 Are the shell plates welded or flanged no  
 Description of riveting: cir. seams double long. seams treble Diameter of rivet holes in long. seams 15/16" Pitch of rivets 6 3/4"  
 Width of butt straps 14 1/2" Per centages of strength of longitudinal joint 90 Working pressure of shell by rules 86.1  
 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 27/32" No. and Description of Furnaces in each boiler 2 Plain Material steel Outside diameter 41" Length of plain part 5' 10" Thickness of plates 4 3/8" 6 1/4"  
 Description of longitudinal joint welded No. of strengthening rings 1 part Working pressure of furnace by the rules 168 Combustion chamber material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 8 1/2" x 7 3/4" Back 8" x 8"  
 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 165 Material of stays iron Diameter at smallest part 1.79" Area supported by each stay 66" Working pressure by rules 165 End plates in steam space: Material steel Thickness 7/8"  
 How are stays secured nuts Working pressure by rules 163 Material of stays steel Diameter at smallest part 3.43"  
 Area supported by each stay 210" Working pressure by rules 162 Material of Front plates at bottom steel Thickness 1 1/16" Material of lower back plate steel Thickness 5/8" Greatest pitch of stays 12 1/2" x 8" Working pressure of plate by rules 191 Diameter of tubes 3 1/4"  
 Pitch of tubes 4 3/8" x 4 1/2" Material of tube plates steel Thickness: Front 1 1/16" Back 5/8" Mean pitch of stays 8 7/8" Pitch across wide water spaces 13 1/4" Working pressures by rules 180 lbs. Girders to Chamber tops: Material steel Depth and thickness of order at centre 4 1/2" x 2 = 1 1/8" Length as per rule 27" Distance apart 4 1/2" Number and pitch of Stays in each 2 - 8"  
 Working pressure by rules 163 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked separately no  
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet plates Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness of 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 Plates None 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,

Dates of Survey while building { During progress of work in shops -- } 1996: Aug 10 Sep 3. 6. 27. 28.  
 { During erection on board vessel -- }  
 Total No. of visits 5  
 Is the approved plan of main boiler forwarded herewith yes  
 " " " donkey " " yes



**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c. This boiler has been constructed under Special Survey, & the materials & workmanship are of good quality. To be fitted on board at Aberdeen.

This boiler has now been properly fitted on board, tried under steam, and found satisfactory, and Safety valves adjusted to working pressure. See Abn report N° 8954.

*Ridley Stowell*

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 ... ..	£	3	3	8 NOV 1906
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	7. 12. 1906

*J. W. Dimmock*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUES. NOV 13 1906

*8/12/06*

Assigned



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Foundation