

## REPORT ON BOILERS.

No. 26332

TUES. 17 MAR 1908  
TUES. 7 APR 1908

Date of writing Report *7th Mar 1908* When handed in at Local Office *7th Mar 1908* Port of *Glasgow*  
 No. in Survey held at *Glasgow* Date, First Survey *10th May 1908* Last Survey *6th March 1908*  
 Reg. Book. *642* on the *S.S. Scotsman* (Number of Visits *53*) Gross *181* Tons Net *20*  
 Master *J. H. Gilmore* Built at *Levine* By whom built *J. H. Gilmore* When built *1894-7*  
 Engines made at *Glasgow* By whom made *Wm. & Houston* when made *1894*  
 Boilers made at *Pollacksham* By whom made *J. & W. Dalglisk (No. 280)* when made *1908*  
 Registered Horse Power *British Country S.S. Co. Ltd.* Port belonging to *Glasgow*

MULTITUBULAR BOILERS—MAIN, ~~ACCESSORY OR DONKEY~~.—Manufacturers of Steel *H. Budden & Co., Colville.*  
 (Letter for record *S*) Total Heating Surface of Boilers *753*  $\text{sq. ft.}$  Is forced draft fitted ☒  
 Boilers *One, Single Ended* Working Pressure *130*  $\text{lb.}$  Tested by hydraulic pressure to *260* Date of test *6/3/08*  
 No. of Certificate *8497* Can each boiler be worked separately ☒ Area of fire grate in each boiler *29*  $\text{sq. ft.}$  No. and Description of  
 safety valves to each boiler *Two Direct Spring* Area of each valve *3.98*  $\text{sq. in.}$  Pressure to which they are adjusted *125*  $\text{lb.}$   
 Are they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ☒  
 Smallest distance between boilers or uptakes and bunkers or woodwork *9"* *Inside* dia. of boilers *9'-6"* Length *9'-0"*  
 Material of shell plates *Stul* Thickness *2 1/32"* Range of tensile strength *28/32* Are the shell plates welded or flanged *No*  
 Descrip. of riveting: cir. seams *A.R. Lap* long. seams *3.R. Butt* Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *4 5/8"*  
 Lap of plates on width of butt straps *9 1/4"* Per centages of strength of longitudinal joint rivets *88-6* Working pressure of shell by  
 rules *132*  $\text{lb.}$  Size of manhole in shell *16" x 12"* Size of compensating ring *6" x 2 1/32"* No. and Description of Furnaces in each  
 boiler *Two, plain* Material *Stul* Outside diameter *36"* Length of plain part *69"* Thickness of plates *9 1/16"*  
 Description of longitudinal joint *Welded* No. of strengthening rings *one* Working pressure of furnace by the rules *130* Combustion chamber  
 plates: Material *Stul* Thickness: Sides *17/32"* Back *17/32"* Top *17/32"* Bottom *17/32"* Pitch of stays to ditto: Sides *8" x 7 1/2"* Back *8" x 7 1/2"*  
 Top *8" x 7"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *144* Material of stays *Stul* Diameter at  
 smallest part *1 5/16"* Area supported by each stay *62*  $\text{sq. in.}$  Working pressure by rules *134* End plates in steam space: Material *Stul* Thickness *29/32"*  
 Pitch of stays *14 1/2" x 14 1/2"* How are stays secured *By Nuts* Working pressure by rules *130* Material of stay *Stul* Diameter at smallest part *2.660"*  
 Area supported by each stay *175*  $\text{sq. in.}$  Working pressure by rules *132* Material of Front plates at bottom *Stul* Thickness *29/32"* Material of  
 Lower back plate *Stul* Thickness *25/32"* Greatest pitch of stays *13"* Working pressure of plate by rules *182* Diameter of tubes *3"*  
 Pitch of tubes *4"* Material of tube plates *Stul* Thickness: Front *25/32"* Back *19/32"* Mean pitch of stays *10"* Pitch across wide  
 water spaces *13"* Working pressures by rules *130*  $\text{lb.}$  Girders to Chamber tops: Material *Stul* Depth and thickness of  
 girder at centre *6 1/4" x 1"* Length as per rule *23 7/8"* Distance apart *7"* Number and pitch of Stays in each *Two, 8"*  
 Working pressure by rules *145*  $\text{lb.}$  Superheater or Steam chest: how connected to boiler *None* 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

\* July 18. 31 Aug 5. 15. 19. Sept 5. 12. 28. Oct 4. 8. 12. 15. 16. Nov 11. 21. The foregoing is a correct description,  
 1908. Mar 4. 6. *A. & N. Dalglisk* Manufacturer.

Dates of Survey During progress of *1906. May 10. 19 June 1. 12. 13. 21. 26. 29. July 23* Is the approved plan of boiler forwarded herewith *Yes*  
 while building *During erection on board vessel* *Aug 3. 11. 16. 24. 28 Sept 6. 17. Oct 2. 9. 10. 24 Nov 6. 30* Total No. of visits *53*  
*Dec 7. 1907 Jan 11. 23. 29 Feb 16. 27 Mar 6. April 12. 25 May 16. 18. 24 June 13. 20*

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

*This boiler has been built under special survey. The materials and workmanship are of good quality and on completion was tested by hydraulic pressure to 260 pounds per square inch & was found tight and sound at that pressure. It is to be fitted on board the S.S. Scotsman now at Port Glasgow.*

Survey Fee ... £ *2 : 10 :* When applied for, *11/3/1908*  
 Travelling Expenses (if any) £ : : When received, *27/3/1908*

*George Murdoch*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned *Transmit to London*

See minute on  
 Grk. No. 15346

Lab for  
 20.3.08



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