

REPORT ON BOILERS.

No. 30745
WED. NOV. 1-1911

Date of writing Report *June 5th 1911* When handed in at Local Office *10.6.11* Port of *Glasgow*
 No. in Survey held at *Glasgow* Date, First Survey *2nd Dec. 1910* Last Survey *June 5th 1911*
 Reg. Book. on the *Main Boilers designated R8. for "Glensloy"* (Number of Visits *26*)
 Master *Port Glasgow* Built at *Port Glasgow* By whom built *A. Rodgers & Co (416)* When built *1911*
 Engines made at *Glasgow* By whom made *A. Rodgers & Co.* when made *1911*
 Boilers made at *Glasgow* By whom made *Barclay Curle & Co. Ld.* when made *1911*
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, SUPPLEMENTARY OR DONKEY—Manufacturers of Steel *Wm Beardmore & Co. Ld.*
 (Letter for record *J.*) Total Heating Surface of Boilers *5196 sq ft* Is forced draft fitted
 Boilers *two Single Ended* Working Pressure *180 lbs* Tested by hydraulic pressure to *360 lbs* Date of test *5.6.11*
 No. of Certificate *11040* Can each boiler be worked separately Area of fire grate in each boiler *60 sq ft* No. and Description of safety valves to each boiler _____
 Area of each valve _____ Pressure to which they are adjusted _____
 Are they fitted with easing gear 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 _____ Mean dia. of boilers *16'-6"* Length *10'-9"*
 Material of shell plates *steel* Thickness *1 5/16"* Range of tensile strength *28/32 tons* Are the shell plates welded or flanged *no*
 Descrip. of riveting: cir. seams *D.R.* long. seams *T.R.O.B.S* Diameter of rivet holes in long. seams *1 3/4"* Pitch of rivets *9 1/2"*
 width of butt straps *20"* Per centages of strength of longitudinal joint rivets *103* Working pressure of shell by rules *180* plate *85.5*
 Size of manhole in *16" x 12"* Size of compensating ring _____
 boiler *3 Corrugated* Material *steel* Outside diameter *4'-4 1/2"* Length of plain part _____ Thickness of plates crown *1 1/8"* bottom *1 1/2"*
 Description of longitudinal joint *weld* No. of strengthening rings *none* Working pressure of furnace by the rules *180* Combustion chamber plates: Material *steel* Thickness: Sides *5/8"* Back *5/8"* Top *5/8"* Bottom *1 3/16"* Pitch of stays to ditto: Sides *8 3/4" x 8 1/2"* Back *9" x 8"*
 Top *9" x 8 1/4"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *181* Material of stays *steel* Diameter at smallest part *1.73"* Area supported by each stay *74.25 sq in* Working pressure by rules *186* End plates in steam space: Material *steel* Thickness *1 1/8"*
 Pitch of stays *19" x 16 1/4"* How are stays secured *D. nuts* Working pressure by rules *181* Material of stays *steel* Diameter at smallest part *5.56"*
 Area supported by each stay *308.75 sq in* Working pressure by rules *187* Material of Front plates at bottom *steel* Thickness *1 3/16"* Material of Lower back plate *steel* Thickness *3/4"* Greatest pitch of stays *14 1/2" x 9"* Working pressure of plate by rules *242* Diameter of tubes *3 1/4"*
 Pitch of tubes *4 1/2" x 4 3/8"* Material of tube plates *steel* Thickness: Front *1 3/16"* Back *1 3/16"* Mean pitch of stays *abt. 10"* Pitch across wide water spaces *14 1/4"* Working pressures by rules *199* Girders to Chamber tops: Material *steel* Depth and thickness of girder at centre *10" x 20 3/4"* Length as per rule *2'-10 9/16"* Distance apart *9"* Number and pitch of Stays in each *308 1/2"*
 Working pressure by rules *194* 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 _____

Survey request form No. *566* checked

The foregoing is a correct description, FOR BARCLAY, CURLE & CO., LTD. Manufacturer.

Charles Joseph Smith Director
Is the approved plan of boiler forwarded herewith *Yes*
Total No. of visits *26*

Dates of Survey while building
 During progress of work in shops - *1910. Dec. 2. 5. 12. 15. 19. 29. 22.*
 During erection on board vessel - *1911. Jany. 13. 16. 30. Feby. 9. 17. 27. Mar. 7. 9. 17. 23. April 2. 5. 7. 20. May 8. 17. 23. 30 June 5.*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The materials & workmanship are good. These boilers have been built under special survey in accordance with the rules and approved plan, and are to be fitted on board the above vessel at Glasgow.*

Survey fee charged on each Rept. _____ When applied for, _____ 19_____
 Travelling Expenses (if any) £ _____ : _____ : _____ When received, _____ 19_____

H.C. Forster
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

GLASGOW 31 OCT. 1911

Committee's Minute _____
 Assigned *See minute on accompanying machy report.*

