

REPORT ON BOILERS.

No. 7969
SAT. JUN. 14 1913

of writing Report 12.6.13 191 When handed in at Local Office 13.6.1913 Port of *Middlesbrough*
 No. in Survey held at *Stockton-on-Tees* Date, First Survey *8th April* Last Survey *7th June 1913*
 Reg. Book. on the *Steel Screw Steamer "Atherstone"* (Number of Visits *(5.5.N.157)*) Tons } Gross
 Master Built at *Thornaby* By whom built *Craig Taylor & Co* When built *1913*
 Engines made at *Stockton* By whom made *Thornaby* When made *1913*
 Boilers made at *Stockton* By whom made *Thornaby* When made *1913*
 Registered Horse Power Owners *Thornaby* When made *1913*
 Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *John Hume & Sons*

(Letter for record *(S)*) Total Heating Surface of Boilers *863 sq ft* Is forced draft fitted *no* No. and Description of
 Boilers *One single ended* Working Pressure *120* Tested by hydraulic pressure to *240* Date of test *7.6.13*
 No. of Certificate *5088* Can each boiler be worked separately *yes* Area of fire grate in each boiler *29 sq ft* No. and Description of
 safety valves to each boiler *2 direct spring* Area of each valve *4.91* Pressure to which they are adjusted *125*
 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 *1'-6"* Mean dia. of boilers *10'-0"* Length *10'-0"*
 Material of shell plates *steel* Thickness *5/8"* Range of tensile strength *28-32* Are the shell plates welded or flanged *no*
 Descrip. of riveting: cir. seams *2 R. lap* long. seams *2 R. 2 Riv* Diameter of rivet holes in long. seams *15/16"* Pitch of rivets *5-1/2"*
 Lap of plates or width of butt straps *9 1/2" x 5/8"* Per centages of strength of longitudinal joint *90.0* Working pressure of shell by
 rules *122* Size of manhole in shell *19" x 15"* Size of compensating ring *7" x 1"* No. and Description of Furnaces in each
 boiler *2 plain* Material *steel* Outside diameter *36"* Length of plain part *77"* Thickness of plates *5/8"*
 Description of longitudinal joint *Weld* No. of strengthening rings *none* Working pressure of furnace by the rules *151* Combustion chamber
 plates: Material *steel* Thickness: Sides *3/8"* Back *5/8"* Top *9/16"* Bottom *13/16"* Pitch of stays to ditto: Sides *9 1/4" x 8"* Back *10" x 9"*
 Top *9 1/4" x 8"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *146* Material of stays *steel* Diameter at
 smallest part *1.45"* Area supported by each stay *90* Working pressure by rules *129* End plates in steam space: Material *steel* Thickness *7/8"*
 Pitch of stays *16" x 17"* How are stays secured *nuts & washers* Working pressure by rules *120* Material of stays *steel* Diameter at smallest part *4.11"*
 Area supported by each stay *255* Working pressure by rules *168* Material of Front plates at bottom *steel* Thickness *7/8"* Material of
 lower back plate *steel* Thickness *7/8"* Greatest pitch of stays *13" x 9"* Working pressure of plate by rules *212* Diameter of tubes *3 1/2"*
 Pitch of tubes *4 5/8" x 4 1/2"* Material of tube plates *steel* Thickness: Front *7/8"* Back *5/8"* Mean pitch of stays *10 7/8"* Pitch across wide
 inter spaces *14 1/2"* Working pressures by rules *121* Girders to Chamber tops: Material *steel* Depth and thickness of
 under at centre *6 1/2" x 1 1/4"* Length as per rule *27"* Distance apart *9"* Number and pitch of Stays in each *2 @ 8"*
 Working pressure by rules *121* Superheater or Steam chest: *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
 es Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 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
NO. 663 ATTACHEDThe foregoing is a correct description,
FOR RILEY BROS. & CO. LTD. MANUFACTURERS

Dates During progress of work in shops - - - *Apr. 8. 17. 29. May 2. 8. 20. 24. 28. 30. Jun 4. 7.* Is the approved plan of boiler forwarded herewith *yes*
 Survey while board vessel - - -
 Total No. of visits *11* Return for duplicate Boiler

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been built under special survey, is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results. The boiler is to be fitted on board at this port. This boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted.*

Survey Fee ... £ *2-18-0* When applied for, *MONTHLY A/c.* 191
 Travelling Expenses (if any) £ *✓* When received, 191

Foreign Ship

Committee's Minute

FRI. AUG. 8-1913

Signed

Wm Morrison
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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Foundation