

REPORT ON BOILERS.

No. 10713

SAT JUN. 12 1920

Received at London Office

of writing Report 5.6.20 19 When handed in at Local Office 9.6.20. 19 Port of *Middlesbrough*
 o. in Survey held at *Stockton-on-Tees* Date, First Survey *10th Dec. 1919* Last Survey *4th June 1920*
 Book. on the *Steel Screw Steamer "H.H. Asquith"* (Number of Visits *79*) Gross Tons }
 (S.S. No. *522*) Net
 ter Built at *Stockton* By whom built *Messrs Ropner, S.B. & Ry Co Ltd.* When built *1920*
 ines made at *Stockton* By whom made *Messrs Blair & Co Ltd (N^o 1873)* When made *1920*
 lers made at *Stockton* By whom made *Messrs Blair & Co Ltd (N^o E 1339)* When made *1920*
 istered Horse Power Owners Port belonging to

ULTITUBULAR BOILERS—~~MAIN~~, AUXILIARY OR ~~DONKEY~~—Manufacturers of Steel *Messrs J. Spencer & Sons*
 ter for record (5) Total Heating Surface of Boiler *1432 sq ft* Is forced draft fitted *no* No. and Description of
 lers *One single ended* Working Pressure *180* Tested by hydraulic pressure to *360* Date of test *19.3.20*
 of Certificate *6101* Can each boiler be worked separately *yes* Area of fire grate in each boiler *45.6 sq ft* No. and Description of
 ty valves to each boiler *Two direct spring* Area of each valve *5.94* Pressure to which they are adjusted *185 lbs.*
 they fitted with easing gear *yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *✓*
 llest distance between boilers ~~on~~ *plates* and bunkers ~~on~~ *woodwork* *2'-0"* External Mean dia. of boilers *13'-0"* Length *10'-6"*
 erial of shell plates *steel* Thickness *1 1/2"* Range of tensile strength *28-32* Are the shell plates welded or flanged *no*
 erip. of riveting: cir. seams *2 Riv. lap* long. seams *2 B-3 Riv* Diameter of rivet holes in long. seams *1 1/8"* Pitch of rivets *8 3/8"*
 of plates or width of butt straps *17 3/4 x 3/32* Per centages of strength of longitudinal joint rivets *92.7* Working pressure of shell by
 plate *85.0*
 182 Size of manhole in shell *16" x 12"* Size of compensating ring *7 1/2" x 1 1/8"* No. and Description of Furnaces in each
 er *3 Dighton* Material *steel* Outside diameter *39 3/4"* Length of plain part *top* Thickness of plates *crown* } *1 1/2"*
 ription of longitudinal joint *weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *190* Combustion chamber
 es: Material *steel* Thickness: Sides *4"* Back *4"* Top *4"* Bottom *4"* Pitch of stays to ditto: Sides *8 1/2" x 10"* Back *9 1/4" x 9 1/2"*
 229 *9" x 9"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *187* Material of stays *steel* Area at
 lest part *1.99* Area supported by each stay *86.6* Working pressure by rules *207* End plates in steam space: Material *steel* Thickness *1 1/2"*
 h of stays *12" x 16 1/2"* How are stays secured *nuts* *7 x 1 1/8"* Working pressure by rules *184* Material of stays *steel* Area at smallest part *5.56*
 supported by each stay *297* Working pressure by rules *194* Material of Front plates at bottom *steel* Thickness *1 1/2"* Material of
 er back plate *steel* Thickness *1 1/2"* Greatest pitch of stays *14" x 9 3/8"* Working pressure of plate by rules *212* Diameter of tubes *3 1/4"*
 h of tubes *4 5/8" x 4 1/2"* Material of tube plates *steel* Thickness: Front *1 1/2"* Back *1 3/8"* Mean pitch of stays *11 7/8"* Pitch across wide
 r spaces *14 1/4"* Working pressures by rules *187* Girders to Chamber tops: Material *steel* Depth and thickness of
 r at centre *7" x 2"* Length as per rule *29"* Distance apart *9"* Number and pitch of Stays in each *2 @ 9"*
 king pressure by rules *200* Steam dome: description of joint to shell *none* % of strength of joint
 eter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 h of rivets Working pressure of shell by rules Crown plates Thickness How stayed

ERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 eter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

FOR BLAIR & CO., LIMITED.

Geo. Ashworth

Manufacturer.

During progress of work in shops -- See report on Engines.
 During erection on board vessel --

Is the approved plan of boiler for a donkey boiler *yes*Total No. of visits *✓*

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

Survey Fee ... £ *Included in Machinery* When applied for, 19
 Travelling Expenses (if any) £ When received, 19

Committee's Minute

FRI. JUN. 18 1920

Signed

See hob for rpt attached

Wm Morrison © 2021
 Engineer Surveyor to Lloyd's Register of Shipping.

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