

REPORT ON BOILERS.

No. 62442

MON. JUN. 3-1912

Received at London Office

Date of writing Report *31st May 1912* When handed in at Local Office *1st June 1912* Port of *Newcastle on Tyne*
 No. in Survey held at *Newcastle* Date, First Survey *2nd Oct. 1911* Last Survey *20th May 1912*
 Reg. Book. *149* the *Donkey Boiler of S.S. Shwedagon* (Number of Visits) Gross *3391* Tons Net *3270*
 Master Built at *Newcastle* By whom built *Armstrong Whitworth & Co.* When built *1912*
 Engines made at *Newcastle* By whom made *Wallace Shipway & Eng. Co.* When made *1912*
 Boilers made at *"* By whom made *"* when made *1912*
 Registered Horse Power *DB 262* Owners *Indo-Burmah Petroleum* Port belonging to *Rangoon*

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel *J. Spencer & Sons*
 (Letter for record ☒) Total Heating Surface of Boilers *670 sq ft* Is forced draft fitted *no* No. and Description of Boilers *1 single ended* Working Pressure *120 lbs* Tested by hydraulic pressure to *240* Date of test *14/12/11*
 No. of Certificate *8248* Can each boiler be worked separately ☒ Area of fire grate in each boiler *25.0 sq ft* No. and Description of safety valves to each boiler *2 direct spring* Area of each valve *3.97 sq in* Pressure to which they are adjusted *120 lbs*
 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 *4'-9" inside* Mean dia. of boilers *9'-0"* Length *9'-7"*
 Material of shell plates *steel* Thickness *5/8"* Range of tensile strength *29-33 tons* Are the shell plates welded or flanged *no*
 Descrip. of riveting: cir. seams *d. lap* long. seams *treble lap* Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *3'5 1/16"*
 Lap of plates or width of butt straps *6 1/2"* Per centages of strength of longitudinal joint rivets *83* Working pressure of shell by rules *122 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *flanged* No. and Description of Furnaces in each boiler *2 Deightons* Material *steel* Outside diameter *35 5/8"* Length of plain part *top* Thickness of plates *crown 3/8"* bottom *3/8"*
 Description of longitudinal joint *welded* No. of strengthening rings *Working pressure of furnace by the rules 144 lbs* Combustion chamber plates: Material *steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *5/8"* Pitch of stays to ditto: Sides *8 3/4" x 8"* Back *8 3/4" x 9 1/8"*
 Top *8 3/4" x 8"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *136 lbs* Material of stays *iron* Area at smallest part *2.03 sq in* Area supported by each stay *75 sq in* Working pressure by rules *162 lbs* and plates in steam space: Material *steel* Thickness *1 1/2"* Area at smallest part *5.05 sq in*
 Pitch of stays *23 1/4" x 1 1/2"* How are stays secured *d. n. w. w. w.* Working pressure by rules *150 lbs* Material of stays *steel* Area at smallest part *5.05 sq in*
 Area supported by each stay *305 sq in* Working pressure by rules *172 lbs* Material of Front plates at bottom *steel* Thickness *1"* Material of Lower back plate *steel* Thickness *1"* Greatest pitch of stays *14 1/2" x 12"* Working pressure of plate by rules *268 lbs* Diameter of tubes *3"*
 Pitch of tubes *4" x 4 1/4"* Material of tube plates *steel* Thickness: Front *1"* Back *1 1/16"* Mean pitch of stays *8 1/32"* Pitch across wide water spaces *13 3/4"* Working pressures by rules *199 lbs* Girders to Chamber tops: Material *steel* Depth and thickness of girder at centre *6" x 1 1/2"* Length as per rule *22 3/4"* Distance apart *8 1/4"* Number and pitch of Stays in each *1, 8"*
 Working pressure by rules *138 lbs* 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 ☒

The foregoing is a correct description,

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED, Manufacturer.

Dates of Survey: During progress of work in shops - - - Oct. 2, 23, Nov. 7, 13, 14, 20, Dec. 5, 14
 while building: During erection on board vessel - - - See Machinery Report

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

This boiler has been built under special survey, the materials used are good, and the workmanship is satisfactory, for record see machinery report.

Survey Fee ... £ ... When applied for. 19
 Travelling Expenses (if any) £ ... When received. 19

Committee's Minute

TUE. JUN. 4-1912

Assigned

See Minute on
Inve Rpt 62442 attached

Charles Cooper
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Lloyd's Register
 Foundation

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