

REPORT ON BOILERS.

No. 65313

WED. DEC. 24. 1913

Received at London Office

Date of writing Report *29th Nov 1913* When handed in at Local Office *22nd Dec 1913* Port of *Newcastle on Tyne*
 No. in Survey held at *Newcastle* Date, First Survey *5th Sept 1913* Last Survey *12th Dec 1913*
 Reg. Book. on the *Boiler for Stabilimento Tecnico Triestino* (Number of Visits) *3* Tons Gross *110* Net *100*
 Master *Cracovia* Built at *Cracovia* By whom built *Cracovia* When built *1913*
 Engines made at *Newcastle* By whom made *Cracovia* When made *1913*
 Boilers made at *Newcastle* By whom made *Wallsend Slipway & Eng Co 2998* When made *1913*
 Registered Horse Power *100* Owners *Cracovia* Port belonging to *Cracovia*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel *Thyssen & Co*(Letter for record) Total Heating Surface of Boilers *12735* Is forced draft fitted *no* No. and Description ofBoilers *5 Single-ended* Working Pressure *180 lbs* Tested by hydraulic pressure to *225 lbs* Date of test *1913*No. of Certificate *1* Can each boiler be worked separately *no* Area of fire grate in each boiler *18* No. and Description ofsafety valves to each boiler *1* Area of each valve *18* Pressure to which they are adjusted *180 lbs*Are they fitted with easing gear *no* 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 *15'-9"* Length *12'-0"*Material of shell plates *steel* Thickness *1 1/2"* Range of tensile strength *29 1/2-33 1/2* Are the shell plates welded or flanged *no*Descrip. of riveting: cir. seams *d. r. lap* long. seams *d. r. d. butt* Diameter of rivet holes in long. seams *1 1/4"* Pitch of rivets *8 1/2"*Lap of plates or width of butt straps *18 5/8"* Per centages of strength of longitudinal joint *86.15* Working pressure of shell byrules *184 lbs* Size of manhole in shell *16" X 12"* Size of compensating ring *flanged* No. and Description of Furnaces in eachboiler *3 Deighton* Material *steel* Outside diameter *50 3/4"* Length of plain part *19 1/2"* Thickness of plates *1 1/2"*Description of longitudinal joint *welded* No. of strengthening rings *1* Working pressure of furnace by the rules *188 lbs* Combustion chamberplates: Material *steel* Thickness: Sides *5/8"* Back *5/8"* Top *5/8"* Bottom *1"* Pitch of stays to ditto: Sides *7 3/8" X 9 3/8"* Back *8 3/4" X 8 3/4"*Top *8" X 9"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *184 lbs* Material of stays *steel* Diameter atsmallest part *2 1/2"* Area supported by each stay *73.5* Working pressure by rules *225 lbs* End plates in steam space: Material *steel* Thickness *1 1/2"*Pitch of stays *25 X 2 1/2"* How are stays secured *d. nuts* Working pressure by rules *181 lbs* Material of stays *steel* Diameter at smallest part *9 1/5"*Area supported by each stay *519* Working pressure by rules *183 lbs* Material of Front plates at bottom *steel* Thickness *1"* Material ofLower back plate *steel* Thickness *1 1/2"* Greatest pitch of stays *15 1/4" X 8 1/4"* Working pressure of plate by rules *185 lbs* Diameter of tubes *3"*Pitch of tubes *4 1/4" X 4 1/4"* Material of tube plates *steel* Thickness: Front *1 1/4"* Back *3/4"* Mean pitch of stays *8 1/2" X 8 1/2"* Pitch across widewater spaces *14 1/4"* Working pressures by rules *348 lbs* Girders to Chamber tops: Material *steel* Depth and thickness ofgirder at centre *8 1/4" X 1 1/2"* Length as per rule *32"* Distance apart *8"* Number and pitch of Stays in each *2 of 9"*Working pressure by rules *186 lbs* Superheater or Steam chest; how connected to boiler *none* Can the superheater be shut off and the boiler workedseparately *yes* Diameter *18"* Length *18"* Thickness of shell plates *1 1/2"* Material *steel* Description of longitudinal joint *welded* Diam. of rivetholes *1 1/4"* Pitch of rivets *8 1/2"* Working pressure of shell by rules *184 lbs* Diameter of flue *18"* Material of flue plates *steel* Thickness *1"*If stiffened with rings *yes* Distance between rings *18"* Working pressure by rules *181 lbs* End plates: Thickness *1 1/2"* How stayed *yes*Working pressure of end plates *181 lbs* Area of safety valves to superheater *18"* Are they fitted with easing gear *yes*

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.
 The foregoing is a correct description,

Thyssen & Co Manufacturer.

DIRECTOR.

Dates of Survey *1913*
 During progress of work in shops *24 Dec 1913*
 while building *25 Dec 1913*
 board vessel *26 Dec 1913*
 Is the approved plan of boiler forwarded herewith *yes*
 Total No. of visits *13*

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

These boilers as far as completed, have been built under special survey, the materials used are good, and the workmanship is satisfactory. To complete. The shells and furnaces should be rivetted, the tubes & stays fitted, and the boilers tested with water pressure.

Survey Fee ... £ *14* : : :
 Travelling Expenses (if any) £ : : :
 When applied for, *DEC 28 1913*
 When received, *28/1/1914*

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

Committee's Minute

FRI. JAN. 28 1914

Assigned

W1087-0134



Lloyd's Register
 Foundation