

REPORT ON BOILERS.

No. 6894.

Received at London Office

JAN 18 1911

Date of writing Report Jan 17th 1911 When handed in at Local Office Jan 17th 1911 Port of Belfast
 No. in Survey held at Belfast Date, First Survey 23rd Dec 1909 Last Survey 14th Jan 1911
 Reg. Book. 435 on the S.S. "Thermistoles" (Number of Visits 89) Tons { Gross 7231
 Master W. J. ... Built at Belfast By whom built Harland & Wolff L^{td} When built 1911
 Engines made at Belfast By whom made Harland & Wolff L^{td} when made 1911
 Boilers made at Belfast By whom made Harland & Wolff L^{td} when made 1911
 Registered Horse Power ... Owners Geo. Chapman & Co L^{td} Port belonging to Belfast

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel R. Calville & Sons L^{td}
 (Letter for record 3rd) Total Heating Surface of Boilers 5098 sq ft Is forced draft fitted No No. and Description of Boilers 2 Single End Cylind^r Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 1-4-10
 No. of Certificate 435 Can each boiler be worked separately Yes Area of fire grate in each boiler 62 sq ft No. and Description of safety valves to each boiler Two-Winged Spring Area of each valve 8.29 sq in Pressure to which they are adjusted 215 lbs
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 18 in Mean dia. of boilers 15.6 in Length 10.9 in
 Material of shell plates Steel Thickness 1 1/2 in Range of tensile strength 29-33 tons Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams Lap Long. seams Butt Diameter of rivet holes in long. seams 1 1/2 in Pitch of rivets 10 in
 Lap of plates on width of butt straps 2 3/4 in Per centages of strength of longitudinal joint rivets 90.6 Working pressure of shell by rules 250 lbs Size of manhole in shell 16 x 12 in Size of compensating ring Mr. Mills No. and Description of Furnaces in each boiler 3-Morrisons Material Steel Outside diameter 49 1/2 in Length of plain part top 6 in Thickness of plates crown 2 1/2 in bottom 3 1/2 in
 Description of longitudinal joint Weld No. of strengthening rings 4 Working pressure of furnace by the rules 240 lbs Combustion chamber plates: Material Steel Thickness: Sides 5 in Back 3 1/2 in Top 5 in Bottom 1 1/2 in Pitch of stays to ditto: Sides 7 1/2 x 7 1/2 in Back 7 1/2 x 7 1/2 in
 Top 8 1/2 x 7 1/2 in If stays are fitted with nuts or riveted heads Nuts in use Working pressure by rules 217 lbs Material of stays Steel Diameter at smallest part 1 1/2 in Area supported by each stay 6 1/8 sq in Working pressure by rules 224 lbs Material of plates in steam space: Material Steel Thickness 1 1/2 in
 Pitch of stays 18 x 16 1/2 in How are stays secured Nuts in use Working pressure by rules 215 lbs Material of stays Steel Diameter at smallest part 3 x 2 1/2 in
 Area supported by each stay 279 sq in Working pressure by rules 263 lbs Material of Front plates at bottom Steel Thickness 7 in Material of Lower back plate Steel Thickness 7 in Greatest pitch of stays 12 1/2 in Working pressure of plate by rules 301 lbs Diameter of tubes 3 in
 Pitch of tube 4 1/2 x 4 1/2 in Material of tube plate Steel Thickness: Front 7 in Back 1 1/2 in Mean pitch of stays 8 1/2 x 8 1/2 in Pitch across wide water spaces 14 1/2 in Working pressures by rules 326 lbs Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 9 x (7/8 x 2) in Length as per rule 29 in Distance apart 8 1/2 in Number and pitch of Stays in each 3-7 1/2 in
 Working pressure by rules 238 lbs Superheater or Steam chest; how connected to boiler ... 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,
Harland & Wolff L^{td} Manufacturer.
 Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits See other sheet

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

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

...
 Committee's Minute
 Assigned

R. J. ...
 Engineer/Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. 20 JAN 1911



List of Pompey Pumps

Main Centrif. Circulating	8' x 13' x 9'
Aux. " "	6' x 6' x 5'
Aux. Air	4' x 7' x 8'
Main Feed (1 pair)	12 1/2' x 9 1/2' x 26'
Aux. Feed	4' x 5' x 12'
General Ballast	10 1/2' x 4' x 12'
Ash Extract	12' x 12' x 14'
Sanitary	10 1/2' x 4' x 12'
Fresh Water	8' x 6' x 8'
Refriger. Circulating (2)	5 1/2' x 4' x 6'
	8' x 9' x 10'

Rpt. 13.

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