

REPORT ON BOILERS.

No. 8447

SAT. NOV. 27 1920

Date of writing Report *23rd Nov^r 1920* When handed in at Local Office *Belfast*
 No. in Survey held at *Belfast* Port of *Belfast*
 Reg. Book. *P.S. T. Roswell* Date, First Survey *4th Sep^r 1914* Last Survey *19th Nov^r 1920*
 on the *P.S. T. Roswell* (Number of Visits *79*)
 Master *C. Bulley* Built at *Belfast* By whom built *Harland & Wolff L^{td}* Tons { Gross *5327*
 Engines made at *Belfast* By whom made *-* Net *3169*
 Boilers made at *-* By whom made *-* When made *-*
 Registered Horse Power *2* Owners *Superior & Roswell & Roswell* Port belonging to *Liverpool*

MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel *R. Colville & Sons L^{td}*

(Letter for record *S*) Total Heating Surface of Boilers *1432 sq ft* Is forced draft fitted *No* No. and Description of Boilers *One, Single End by line* Working Pressure *120 lbs* tested by hydraulic pressure to *240 lbs* Date of test *21-5-20*

No. of Certificate *539* Can each boiler be worked separately *✓* Area of fire grate in each boiler *Nil* and Description of safety valves to each boiler *2 Direct Spring* Area of each valve *7.07 sq in* Pressure to which they are adjusted *125 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 *about 22 in* dia. of boilers *2'-6"* Length *10'-6"*

Material of shell plates *Steel* Thickness *3/4"* Range of tensile strength *28-32 tons* Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams *Top & Bottom* long. seams *W. Butt & Lap* Diameter of rivet holes in long. seams *15/16"* Pitch of rivets *5 3/8"*

Top of plates or width of butt straps *14 1/2"* Per centages of strength of longitudinal joint rivets *116.6* Working pressure of shell by rules *122 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *M^o Keels*

No. and Description of Furnaces in each boiler *2 Daylight* Material *Steel* Outside diameter *44 1/2"* Length of plain part *top 4'-8" bottom 8'-0"* Thickness of plates *crown 3 7/8" bottom 3 1/8"*

Description of longitudinal joint *Weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *128 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *3/4"* Pitch of stays to ditto: Sides *10 1/2" x 8 3/4"* Back *9 1/2" x 9"*

Top *10 1/2" x 8 3/4"* If stays are fitted with nuts or riveted heads *None* Working pressure by rules *125 lbs* Material of stay *Steel* Diameter at smallest part *1 1/2"*

How are stays secured *None* Working pressure by rules *29 lbs* End plates in steam space: Material *Steel* Thickness *5/16"*

Area supported by each stay *34 1/4 sq in* Working pressure by rules *153 lbs* Material of stay *Steel* Diameter at smallest part *5 1/8"*

Lower back plate *Steel* Thickness *3/4"* Greatest pitch of stays *13 1/2"* Working pressure of plate by rules *39 lbs* Diameter of tubes *3 1/4"*

Pitch of tubes *4 1/2" x 4 1/2"* Material of tube plate *Steel* Thickness: Front *13/16"* Back *3/4"* Mean pitch of stays *9" x 9"* Pitch across wide water spaces *14 1/2"*

Working pressures by rules *125 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *6" x (8" x 2)* Length as per rule *28 1/2"* Distance apart *8 1/2"*

Working pressure by rules *141 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

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 HARLAND & WOLFF L^{td}.

Hebbbeck Manufacturer.

Dates { During progress of work in shops - - }
 of Survey { During erection on board vessel - - }

Is the approved plan of boiler forwarded herewith *Yes*

Total No. of visits

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

See other sheet

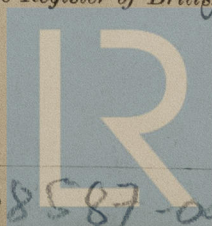
Survey Fee ... £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191

FRI. DEC. 3 1920

R. F. Bennett
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned



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Lloyd's Register

008587-008596-00891/12

Belfast

S.S. Boswell.

List of Pumps

1 Pair Weirs Main Feed	11½" x 8" x 24"
1 Main Dual. Air, Weirs	11" x 20" x 15"
1 Ballast	10½" x 14" x 24"
1 Bilge	8" x 9" x 18"
1 General	9½" x 7" x 18"
1 Sanitary	6½" x 6½" x 15"
1 Fresh Water	4" x 4" x 5"
1 W. Boiler Feed	6½" x 4½" x 10"
1 Main Circulating	11" x 16" Branches x 10"
3 Forced Lubrication	6½" x 6½" x 15"
1 Oil Fuel Transfer	7" x 8" x 18"
2 - - - delivery	5½" x 3½" x 9"

Spare Gear. (Principal items).

- 1 Propeller Shaft
- 1 - - - black bronze
- 1 Thomson's shaft coupling
- 1 Set coupling bolts & nuts for each size coupling used ✓
- 1 Escape valve spring each size used ✓
- 10 Condenser tubes x 50 fennels
- 1 Whistle, each size reducing valve
- 200 Fire bars, 12 boiler tubes
- 1 Valve spindle for Main boiler stop valve ✓
- 1 - - - - - Dunkey - - - ✓
- 4 Spindles for Check valves
- Circulating Pump: - Set piston rings & Impeller & Spindle
- Air Pump: - Full set valves & piston rings ✓
- Main Feed pump: - - - - - & pump rod ✓
- Ballast Pump: - Set steam & water piston rings ✓
- Bilge - - - - - & suction & delivery valves ✓
- Set & spare gear for all other pumps ✓
- Bolts, nuts, wire etc ✓
- All spare gear for Lubrication and Lifting, as per Rules.

RMBennett