

REPORT ON BOILERS.

No. 7843

Received at London Office MON. AUG 27 1917.

of writing Report 16th Aug 1917 When handed in at Local Office 101 Port of Belfast

No. in Survey held at Belfast Date, First Survey 18th Sep 1914 Last Survey 2nd July 1917

g. Book. 210 on the S.S. Lancashire (Number of Visits 85) Gross 9445 Net 5886

ster Built at Belfast By whom built Harland & Wolff built 1917

ines made at Belfast By whom made - When made -

lers made at - By whom made - When made -

gistered Horse Power ✓ Owners Bishop S. S. Coy L^o Port belonging to Liverpool

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel W. Calville Sons L^o

ter for record 8) Total Heating Surface of Boilers 5892 sq ft Is forced draft fitted No ✓ No. and Description of

lers 2 Single End Cylind^r Working Pressure 213 lbs tested by hydraulic pressure to 430 lbs Date of test 3-4-17

of Certificate 500 Can each boiler be worked separately Yes ✓ Area of fire grate in each boiler 70 sq ft No. and Description of

ty valves to each boiler 2 Direct Spring Area of each valve 9.62 sq Pressure to which they are adjusted 215 lbs

they fitted with easing gear Yes ✓ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

allest distance between boilers or uptakes and bunkers or woodwork About 7'-6" Mean dia. of boilers 16'-3" Length 11'-3"

erial of shell plates Steel Thickness 1 3/4" Range of tensile strength 29-33 tons the shell plates welded or flanged No ✓

rip. of riveting: cir. seams L. D. long. seams Butt Lap diameter of rivet holes in long. seams 1 3/4" Pitch of rivets 10 1/2"

of plates or width of butt straps 24 3/8" Per centages of strength of longitudinal joint rivets 97.5 plate 83.3 Working pressure of shell by

s 25-2 lbs Size of manhole in shell 16" x 12" Size of compensating rivets No ✓ No. and Description of Furnaces in each

er 4 Mansie Material Steel Outside diameter 46 5/8" Length of plain part top 1" bottom 5" Thickness of plates crown 3 1/16" bottom 3 1/16"

ription of longitudinal joint Weld No. of strengthening rings 0 Working pressure of furnace by the rules 243 lbs combustion chamber

es: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 1" Pitch of stays to ditto: Sides 8 x 7 1/4" Back 8 x 7 1/4"

7 1/4 x 7 1/4 stays are fitted with nuts or riveted heads Nuts Working pressure by rules 217 lbs Material of stays Steel Diameter at

allest part 1 1/2" supported by each stay 62 sq Working pressure by rules 254 lbs plates in steam space: Material Steel Thickness 1 1/16"

h of stays 16 x 15 1/2" are stays secured Screwed into plates Working pressure by rules 216 lbs Material of stays Steel Diameter at smallest part 2 3/4"

supported by each stay 248 sq Working pressure by rules 241 lbs Material of Front plates at bottom Steel Thickness 7/8" Material of

er back plate Steel Thickness 7/8" Greatest pitch of stays 12 1/4 x 7 1/4" Working pressure of plate by rule 258 lbs diameter of tubes 2 3/4"

h of tubes 4 x 4" Material of tube plates Steel Thickness: Front 7/8" Back 13/16" Mean pitch of stays 8 x 8" Pitch across wide

or spaces 13 1/2" Working pressures by rule 285 lbs with double Girders to Chamber tops: Material Iron Depth and thickness of

er at centre 9 x (7/8 x 2) Length as per rule 31 1/2" Distance apart 7 1/4 x 7" Number and pitch of Stays in each 3-7 1/4"

king pressure by rules 246 lbs Superheater or Steam chest: how connected to boiler ✓ Can the superheater be shut off and the boiler worked

rately ✓ 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 ✓

iffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓

king pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

The foregoing is a correct description,
 In Harland & Wolff Ltd, Manufacturer.
 George Stewart

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

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

Committee's Minute TUE. SEP. - 4 1917.

List of Pumps

2	Main Air, Weirs & dual	12" x 20" x 15"	✓
2	Weirs Feed	15" x 10 1/2" x 20"	✓
2	Cent. Circulating	9" x 9", 13" pipe	✓
1	Aux. Air, Weirs	12" x 18" x 12"	✓
1	Feed	8" x 6" x 15"	✓
1	Circ. H.W.	6 x 5", 6" pipe	✓
2	Bills Weirs	8" x 9" x 18"	✓
2	Sanitary	8" x 9" x 18"	✓
1	F. Water	4" x 4 1/2" x 10"	✓
1	Ballast, H.W.	9" x 10" x 12"	✓
1	General Service	9" x 6" x 10"	✓

Spare Gear

- 2 Propeller blades + 9 studs + nuts
- 1 Pair Crank Pin bushes
- 2 Eccentric sheaves + straps complete
- 1 Main bearing bush
- 1 Valve spindle
- 8 White metal strips for guides
- 2 sets H. P. piston rings
- 1 - I. P. - - -
- 1 - I. P. - - -
- 1 - L. P. - - -
- 1 set Blocks + pins each piston rod packing
- 30 Condenser tubes
- 25 - - - - - air?
- 12 boiler plain tubes + 4 stay tubes
- 4 cyl. escape valve springs
- 1 Spindle for each size stop valve on boiler
- 1 Main Circ. pump impeller spindle
- Sets of spare gear for all pumps, etc.
- and all gear to Lloyd's Rules extra. ✓
- 2-35 ton Crapshooters.

R. F. Beveridge



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