

REPORT ON BOILERS.

No. 8386

MON. SEP. 13 1920

Received at London Office
 Date of writing Report *9th Sept 20* When handed in at Local Office *Belfast* Port of *Belfast*
 No. in Survey held at *Belfast* Date, First Survey *5th July 1918* Last Survey *2nd Sept 1920*
 Reg. Book. *T.S.S. Yorkshire* (Number of Visits *106*) Gross *10184*
 on the *T.S.S. Yorkshire* Tons Net *6266*
 Master *G.E.B. Millson* Built at *Belfast* By whom built *Harland & Wolff L^{td}* When built *1920*
 Engines made at *Belfast* By whom made *-* When made *-*
 Boilers made at *-* By whom made *-* When made *-*
 Registered Horse Power *✓* Owners *Bibby Bros* Port belonging to *Liverpool*

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

Letter for record *S* Total Heating Surface of Boilers *5828 sq ft.* Is forced draft fitted *No* No. and Description of
 boilers *2 - Single End Cylindrical* Working Pressure *215 lbs* Tested by hydraulic pressure to *430 lbs* Date of test *23-6-19*
 No. of Certificate *548* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *10 sq ft.* No. and Description of
 safety valves to each boiler *2 - Direct Spring* Area of each valve *9.62 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 *✓*
 Smallest distance between boilers or uptakes and bunkers or woodwork *about 6 ft.* Mean dia. of boilers *16' - 3"* Length *11' - 3"*
 Material of shell plates *Steel* Thickness *1 1/4"* Range of tensile strength *29-33 tons* Are the shell plates welded or flanged *No*
 Descrip. of riveting: cir. seams *Lap 40 lbs long. seams* Diameter of rivet holes in long. seams *1 1/4"* Pitch of rivets *10 1/2"*
 Width of butt straps *24 3/8"* Per centages of strength of longitudinal joint *97.5* Working pressure of shell by
 rules *257 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *McNeil* No. and Description of Furnaces in each
 boiler *4 - Morrison* Material *Steel* Outside diameter *46 5/8"* Length of plain part *top 7"* Thickness of plates *bottom 7"* crown *4 1/2"*
 Description of longitudinal joint *Weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *243 lbs* Combustion chamber:
 Material *Steel* Thickness: Sides *5"* Back *5"* Top *5"* Bottom *1"* Pitch of stays to ditto: Sides *8" x 7 1/2"* Back *7 1/2" x 7 1/2"*
 Stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *218 lbs* Material of stays *Steel* Diameter at
 smallest part *1 1/2"* Working pressure by rule *255 lbs* End plates in steam space: Material *Steel* Thickness *1 1/2"*
 Pitch of stays *16" x 5 1/2"* How are stays secured *Screwed into plates & single nut* Working pressure by rules *247 lbs* Material of stay *Steel* Diameter at smallest part *5.9 sq in*
 Area supported by each stay *248 sq in* Working pressure by rule *247 lbs* Material of Front plates at bottom *Steel* Thickness *5"* Material of
 lower back plate *Steel* Thickness *5"* Greatest pitch of stays *12 1/2"* Working pressure of plate by rule *292 lbs* Diameter of tubes *2 1/4"*
 Pitch of tubes *4" x 4"* Material of tube plate *Steel* Thickness: Front *5"* Back *4 1/2"* Mean pitch of stays *8" x 8"* Pitch across wide
 inter spaces *13 1/2"* Working pressures by rules *287 lbs with 5 lbs draught* Girders to Chamber tops: Material *Steel* Depth and thickness of
 girder at centre *9" x (7 1/2" x 2)* Length as per rule *31 1/2"* Distance apart *7 1/2" x 7"* Number and pitch of Stays in each *3 - 7 1/2"*
 Working pressure by rules *272 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	
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 Ltd
J.E. Hebble Manufacturer.

Dates: During progress of
 Survey work in shops - -
 while During erection on
 board vessel - -

See other sheet

Is the approved plan of boiler forwarded herewith

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.C. O'Brien
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. SEP. 24 1920

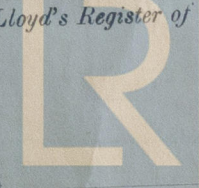
TUE. DEC. 14 1920

WED. AUG. 23 1921

W450-0148 1/2

Committee's Minute

Assigned

Lloyd's Register
Foundation

W

WEB-FRAME

No.

WEB-FRAME

WEB-FRAME

No.

Size of

BRACKET

Web Frame

BULKHEAD

W.T.BULKHEAD

" COLLISION

PARTITION

LONGITUDINAL

Are the outside

Are the

STRAIGHT

FLAT PLATE

(If Bar Keel, add

GARBOARD OF

State actual

thickness in

way of Double

Bottom.

Write "Jaming or Shutter Deck" or "Shore Strake" opposite the corresponding letter.

THICKNESS OF SHEET

CLEAR OF LONG

DO. OF STRAKE

DEB. of Flat Pl

" Sheer

Length and thi

POOP SIDES

SHORT BRIDGE

FORECASTLE SID

Awning or

Shelter Deck

Stringer Plat

Upper Deck

Stringer Plat

FRAMES extend

REVERSED FR

Frames of

4x25x14x4

LOWER MASTS

Bowsprit

Topmasts, Yards

Rigging, Materi

Sails. none

FORM NO. 13.

Rpt. 9a.

Port of

Belfast

Continuation of Report No. 8386 dated 7th Sep^r 1920 on the

T.S.S. "Yorkshire"

List of Pumps, (Independent)

- 2 Main Air, Main 13 $\frac{1}{2}$ " x 22" x 15"
- 1 Aux^y - 12" x 18" x 10"
- 2 Main Feed Pumps 15" x 10 $\frac{1}{2}$ " x 26"
- 1 Aux^y - 8" x 6" x 18"
- 1 Bilge - 8" x 9" x 18"
- 2 Sanitary - 8" x 9" x 18"
- 1 F. Water - 4" x 4 $\frac{1}{2}$ " x 10"
- 1 Evaporator - 4" x 4 $\frac{1}{2}$ " x 10"
- 1 General - 9" x 6" x 10"
- 1 Ballast - 9" x 10" x 12"
- 4 Fresh Lubrication - 6 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ " x 15"
- 1 Transfer - 7 $\frac{1}{2}$ " x 9" x 18"
- 1 Emergency Bilge - 6" x 6"
- Motor driven
- 2 Main Circulating - Centrifugal
- 1 Aux^y -

Spare Gear

- 4 Mang^s Bronze Propeller blades & 9 studs & nuts
- 50 Condenser tubes & 100 ferrules.
- 25 Aux^y - 25"
- 1 Escape valve spring each size
- 4 Bailen check valves & 2 Bailen Circ^l & suction valves.
- 1 Spindle each size & stop valve on Bailen
- 3 Bailen Safety valve springs
- 12 - Flange tubes, & 4 L. tag tubes.
- Let's spare gear for following pumps:-
- Main Centrifugal Circulating
- Feed
- Air
- Ballast
- Bilge
- Sanitary
- F. Water
- Aux^y Feed
- Circ^l
- General
- Fresh Lubrication
- Evap^r Feed

In addition, all spare gear as required by and
Lubric Engine Rules

5m, S.R.-T.

W450-0148 2/2

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Foundation