

REPORT ON BOILERS.

No. 82426.

Received at London Office

of writing Report 19 When handed in at Local Office - 6 JUL 1921 Port of *Liverpool*
 To, in Survey held at *Liverpool* Date, First Survey *June 1st 1921* Last Survey *July 1st 1921*
 g. Book. *2516* on the *ss "Hesperia" ex "Patria"* (Number of Visits *9*) Gross *3922*
 ster Built at *Hensburg* By whom built *Hensburger Schiffbau-Gesellschaft* When built *1919*
 gines made at *Hensburg* By whom made *Hensburger Schiffbau-Gesellschaft* When made *1919*
 ilers made at *Hensburg* By whom made *Hensburger Schiffbau-Gesellschaft* When made *1919*
 istered Horse Power *399* Owners *British & South American Steam Navigation Co. Ltd. (R. P. Thomson & Co. Agents)* Port belonging to *Liverpool*

ULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel
 etter for record *5*) Total Heating Surface of Boilers *7537 sq. ft.* Is forced draft fitted *Yes* No. and Description of
 ilers *3 - Cylindrical Multitubular* Working Pressure *185 lbs* Tested by hydraulic pressure to Date of test
 of Certificate Can each boiler be worked separately *Yes* Area of fire grate in each boiler *55 sq. ft.* No. and Description of
 ety valves to each boiler *2 - Spring loaded* Area of each valve *11.79 sq. in.* Pressure to which they are adjusted *190 lbs*
 e 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 *5' 6"* *Inside* Mean dia. of boilers *14' 8 1/2"* Length *12' 1 1/2"*
 terial of shell plates *Steel* Thickness *1 3/4"* Range of tensile strength *29-32 tons* *inside* the shell plates welded or flanged *No*
 scrip. of riveting: cir. seams *DR - Lap.* long. seams *QR - Double Strap* Diameter of rivet holes in long. seams *1 3/8"* Pitch of rivets *15 7/8"*
 of plates or width of butt straps *27 1/2"* Per centages of strength of longitudinal joint rivets *103* Working pressure of shell by
185 lbs Size of manhole in shell *16 1/2" x 12 1/2"* Size of compensating ring *8 1/2" x 1 1/2"* plate *92.5*
 iler *3 - Corrugated* Material *Steel* Outside diameter *3' 8 1/2"* Length, of plain part top *Yes* Thickness of plates crown *3 1/2"*
 scription of longitudinal joint *Weld* No. of strengthening rings *Yes* Working pressure of furnace by the rules *approved* Combustion chamber
 tes: Material *Steel* Thickness: Sides *3/32"* Back *1/8"* Top *2 1/32"* Bottom *1/4"* Pitch of stays to ditto: Sides *7 1/2" x 7 1/2"* Back *7 1/2" x 7 1/2"*
 p *7 1/2" x 7 1/2"* If stays are fitted with nuts or riveted heads *None* Working pressure by rules *219 lbs* Material of stays *Steel* Area at
 allest part *1-30 sq. in.* Area supported by each stay *60 sq. in.* Working pressure by rules *193 lbs* End plates in steam space: Material *Steel* Thickness *1 1/2"*
 tch of stays *14 1/2" x 14 1/2"* How are stays secured *Double nuts & washers* Working pressure by rules *236 lbs* Material of stays *Steel* Area at smallest part *6.23 sq. in.*
 ea supported by each stay *22.4 sq. in.* Working pressure by rules *224 lbs* Material of Front plates at bottom *Steel* Thickness *3/4"* Material of
 ver back plate *Steel* Thickness *3/8"* Greatest pitch of stays *14 1/2" x 7 1/2"* Working pressure of plate by rules *190 lbs* Diameter of tubes *3 1/2" int.*
 tch of tubes *14 1/2" x 4 1/2"* Material of tube plates *Steel* Thickness: Front *3/4"* Back *1/2"* Mean pitch of stays *9 1/2" x 8 1/2"* Pitch across wide
 ter spaces *14 1/2"* Working pressures by rules *198 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of
 der at centre *9 1/2" x 2 1/2"* Length as per rule *33"* Distance apart *7 1/2"* Number and pitch of Stays in each *3-7 1/2"*
 Working pressure by rules *224 lbs* Steam dome: description of joint to shell *None* % of strength of joint *Yes*
 iameter *Yes* Thickness of shell plates *Yes* Material *Yes* Description of longitudinal joint *Yes* Diam. of rivet holes *Yes*
 tch of rivets *Yes* Working pressure of shell by rules *Yes* Crown plates *Yes* Thickness *Yes* How stayed *Yes*
 PERHEATER. Type *Schmidt's* Date of Approval of Plan *Yes* Tested by Hydraulic Pressure to *Yes*
 te of Test *Yes* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *Yes*
 ameter of Safety Valve *2"* Pressure to which each is adjusted *195 lbs* Is Easing Gear fitted *Yes*

The foregoing is a correct description,

Manufacturer.

Dates During progress of *June 1. 7. 10. 14. 15. 20. 24. 29. July 1.*
 Survey work in shops
 while During erection on
 building board vessel - - -

Is the approved plan of boiler forwarded herewith *Yes*.

Total No. of visits *9*.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The Boilers of this vessel have been examined throughout and put in good condition. The workmanship is good. and they are securely fitted. The scantlings have been verified and found in accordance with the approved plan. In my opinion, they are eligible to be classed with record in the Register Book of BS 721*

Survey Fee ... £ : : } When applied for, *Rpt. 9* 19
 Travelling Expenses (if any) £ : : } When received, *See* 19

Committee's Minute

LIVERPOOL. 15 JUL 1921

Assigned

See report attached. Rpt. 9

B. G. Oxford

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 29 SEP. 1922

FRI. 10 FEB. 1922

TUE. 24 APR. 1923

© 2020

Lloyd's Register Foundation

004062-004066-0122