

REPORT ON BOILERS

No. 58982

RECEIVED 25 AUG 1910

Received at London Office

24 AUG 1910

Port of NEWCASTLE ON TYNE.

Date of writing Report

19

When handed in at Local Office

19

No. in Survey held at
Reg. Book.Date, First Survey 19th AprilLast Survey 19th Aug 1910

Number of Visits

Gross 200

on the

Boiler of the screw tug. Heville No 5

Tons } Net 5

Master Built at *H. Shields* By whom built *J. P. Kennoldson & Sons* When built 1910Engines made at *H. Shields* By whom made *J. P. Kennoldson & Sons* when made 1910Boilers made at *H. Shields* By whom made *J. T. Eltringham & Co. (Ld.)* when made 1910Registered Horse Power Owners *Soc. de Remorques de Heville* Port belonging to *Havre*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

J. Spencer & Sons(Letter for record *25*) Total Heating Surface of Boilers *1935* Is forced draft fitted *no* No. and Description ofBoilers *One single ended* Working Pressure *120 lbs* Tested by hydraulic pressure to *240 lbs* Date of test *2/7/10*No. of Certificate *7998* Can each boiler be worked separately ☒ Area of fire grate in each boiler *58.5* No. and Description ofsafety valves to each boiler *2 direct spring* Area of each valve *8.29* Pressure to which they are adjusted *120 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 *12"* Mean dia. of boilers *14'-5"* Length *10'-9"*Material of shell plates *steel* Thickness *2 1/32"* Range of tensile strength *29-33 tons* Are the shell plates welded or flanged *flanged*Descrip. of riveting: cir. seams *double rivet* long. seams *butt riv. d. butt* Diameter of rivet holes in long. seams *1"* Pitch of rivets *6"*Lap of plates or width of butt straps *14"* Per centages of strength of longitudinal joint rivets *92.6* Working pressure of shell byrules *126 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *7 1/2" x 2 1/32"* No. and Description of Furnaces in eachboiler *3 corrugated* Material *steel* Outside diameter *43 1/2"* Length of plain part top *✓* Thickness of plates crown *1 1/32"*Description of longitudinal joint *welded* No. of strengthening rings *✓* Working pressure of furnace by the rules *130 lbs* Combustion chamberplates: Material *steel* Thickness: Sides *9/16"* Back *1/32"* Top *9/16"* Bottom *1/16"* Pitch of stays to ditto: Sides *10" x 9"* Back *9 3/4" x 10 1/4"*Top *9 1/2"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *120 lbs* Material of stays *steel* Diameter atsmallest part *1 1/32"* Area supported by each stay *100* Working pressure by rules *134 lbs* End plates in steam space: Material *steel* Thickness *1"*Pitch of stays *19 3/4"* How are stays secured *nuts & washers* Working pressure by rules *121 lbs* Material of stays *steel* Diameter at smallest part *2 1/32"*Area supported by each stay *390* Working pressure by rules *122 lbs* Material of Front plates at bottom *steel* Thickness *2 1/32"* Material ofLower back plate *steel* Thickness *3/4"* Greatest pitch of stays *14 1/2" & 9 3/4"* Working pressure of plate by rules *127 lbs* Diameter of tubes *3 1/2"*Pitch of tubes *4 3/4"* Material of tube plates *steel* Thickness: Front *2 1/32"* Back *3/4"* Mean pitch of stays *10 1/4"* Pitch across widewater spaces *14 1/2"* Working pressures by rules *144 lbs* Girders to Chamber tops: Material *steel* Depth and thickness ofgirder at centre *6" x 2"* Length as per rule *31 1/2"* Distance apart *9 1/2"* Number and pitch of Stays in each *two 9 1/2"*Working pressure by rules *121 lbs* Superheater or Steam chest: how connected to boiler *none* Can the superheater be shut off and the boiler workedseparately ☒ Diameter ☒ Length ☒ Thickness of shell plates ☒ Material ☒ Description of longitudinal joint ☒ Diam. of rivetholes ☒ 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,

W. T. Eltringham Manufacturer.Dates of Survey
During progress of work in shops - -
while building
During erection on board vessel - -1910
*Apr. 19. May 27. Jun. 1. 3. 21. 28. Jul. 2. 8.*Is the approved plan of boiler forwarded herewith *Yes*Total No. of visits *8 +*

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

This boiler has been built under special survey the materials used are good, and the workmanship is satisfactory.

Survey Fee £

Travelling Expenses (if any) £

When applied for, 19

When received, 19

Charles Cooper
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 26 AUG 1910

Assigned

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Lloyd's Register
Foundation