

REPORT ON BOILERS.

24311
No. 24301

Received at London Office

FRI. OCT. 20. 1911

Date of writing Report 19 When handed in at Local Office

18/10/11 Port of Hull.

No. in Survey held at Hull.

Date, First Survey Jan 7th

Last Survey 5th Oct. 1911

Reg. Book. on the Steel Se. Sr. No 91

(Number of Visits) Gross Tons Net

Boiler Built at By whom built When built 1911

Engines made at } By whom made } Messrs when made 1911

Boilers made at } Hull. By whom made } Earles & Co. Ld. when made 1911

Registered Horse Power Owners Port belonging to

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

Letter for record S Total Heating Surface of Boilers 200 sq ft Is forced draft fitted No No. and Description of

Boilers One C. M. S. Engine Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 27.7.11

No. of Certificate 1827 Can each boiler be worked separately — Area of fire grate in each boiler 9 sq ft No. and Description of

Safety valves to each boiler Two Spring Area of each valve 3.1416 sq in Pressure to which they are adjusted 100 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 6 in Int Mean dia. of boilers 6'-0" Length 6'-0"

Material of shell plates S Thickness 1/2 in Range of tensile strength 28.32 ton Are the shell plates welded or flanged No

Description of riveting: cir. seams L. S. long. seams L. D. Diameter of rivet holes in long. seams 7/8 in Pitch of rivets 2 13/16 in

Top of plates or width of butt straps 4 1/2 in Per centages of strength of longitudinal joint rivets 72 Working pressure of shell by plate 68

Weight of boiler 116 lbs Size of manhole in shell 15" x 11" Size of compensating ring 5 1/2" x 6 1/2" x 1/2 in No. and Description of Furnaces in each

Boiler One plain Material S Outside diameter 2'-9 1/4" Length of plain part 3'-11" Thickness of plates crown 9/16 in bottom

Description of longitudinal joint Welded No. of strengthening rings 0 Working pressure of furnace by the rules 183 lbs Combustion chamber

Material S Thickness: Sides 9/16 in Back 9/16 in Top 9/16 in Bottom 9/16 in Pitch of stays to ditto: Sides 10 in Back 9 x 8 3/4

Top 11 1/2 in If stays are fitted with nuts or riveted heads No Working pressure by rules 125 lbs Material of stays S Diameter at

Smallest part 1 1/4 in Area supported by each stay 74.75 sq in Working pressure by rules 131 lbs End plates in steam space: Material S Thickness 5/8 in

Pitch of stays 13 in How are stays secured on Working pressure by rules 103 lbs Material of stays S Diameter at smallest part 1 5/8 in

Area supported by each stay 169 sq in Working pressure by rules 127 lbs Material of Front plates at bottom S Thickness 5/8 in Material of

Lower back plate S Thickness 5/8 in Greatest pitch of stays 9" x 8 3/4" Working pressure of plate by rules 171 lbs Diameter of tubes 2 1/2"

Pitch of tubes 3 1/2" x 3 1/2" Material of tube plates S Thickness: Front 5/8 in Back 5/8 in Mean pitch of stays 8 3/4" Pitch across wide

Water spaces 12 1/2 in Working pressures by rules 102 lbs Girders to Chamber tops: Material S Depth and thickness of

Order at centre 5" x 1 1/2 in Length as per rule 17 5/16 in Distance apart 11 1/2 in Number and pitch of Stays in each one

Working pressure by rules 124 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,

J. J. Dalrymple Manufacturer.

Dates Survey During progress of work in shops - - - See Macky Rpt
while 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.) This boiler has been built under special survey in accordance with the Rules. The materials and workmanship are good. The boiler tested hydraulic pressure, secured on board and tested under steam, and eligible in my opinion to be classed, as per the machinery report.

Survey Fee £ : : When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

James Barclay
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE. NOV. 21. 1911

signed



W1221-0152