

REPORT ON BOILERS.

MON. AUG. 10. 1914

TUE. JUN. 30 1914.

Received at London Office

Writing Report 29.6.14 1914 When handed in at Local Office 29.6.14 1914 Port of Middlesbrough
 in Survey held at Stockton-on-Tees Date, First Survey April 16th Last Survey June 25th 1914.
 Book. on the S.S. HAMBLETON RANGE (S.S. No. 542) (Number of Visits 12) Tons } Gross
 Net
 Built at W. Hartthorpe By whom built Irvine & Co. Ltd. When built
 Made at Stockton By whom made Thos. Hudon & Co. Ltd. (No. 3467) When made 1914
 Rated Horse Power Owners Port belonging to

LTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel John Spencer & Sons
 for record (S) One single ended Total Heating Surface of Boilers 820 sq ft Is forced draft fitted
 Certificate 5328 Can each boiler be worked separately Yes Area of fire grate in each boiler 29 sq ft No. and Description of
 valves to each boiler Two, direct spring Area of each valve 5.9 sq in Pressure to which they are adjusted 100 lbs
 they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 least distance between boilers or uptakes and bunkers or woodwork 18" External Mean dia. of boilers 10'-0" Length 10'-0"
 Material of shell plates steel Thickness 19/32 Range of tensile strength 29-32 1/2 Are the shell plates welded or flanged no
 Description of riveting: cir. seams 2 R. lap long. seams 3 R. lap Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 3/8
 of plates or width of butt straps 6 1/2 Per centages of strength of longitudinal joint rivets 82.5 Working pressure of shell by
 plate 74.15
 Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2 x 13/16 No. and Description of Furnaces in each
 boiler 2 plain Material steel Outside diameter 36" Length of plain part 79.4" Thickness of plates 19/32 crown 19/32
 bottom 104" 63 mean
 Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 115 Combustion chamber
 plates: Material steel Thickness: Sides 15/32 Back 15/32 Top 15/32 Bottom 3/4 Pitch of stays to ditto: Sides 7 1/4 x 7 Back 7 1/4 x 7 1/4
8 1/4 x 7 1/4 stays are fitted with nuts or riveted heads nuts Working pressure by rules 112 Material of stays steel Diameter at
 smallest part .96 Area supported by each stay 60 Working pressure by rules 128 End plates in steam space: Material steel Thickness 29/32
 of stays 17 1/2 x 17 How are stays secured nuts Working pressure by rules 117 Material of stays steel Diameter at smallest part 4.3
 Area supported by each stay 337 Working pressure by rules 183 Material of Front plates at bottom steel Thickness 29/32 Material of
 lower back plate steel Thickness 29/32 Greatest pitch of stays 14 x 7 3/4 Working pressure of plate by rules 124 Diameter of tubes 3 1/4
 Pitch of tubes 4 3/4 x 4 3/8 Material of tube plates steel Thickness: Front 29/32 Back 21/32 Mean pitch of stays 11 7/16 Pitch across wide
 water spaces 14" Working pressures by rules 121 Girders to Chamber tops: Material steel Depth and thickness of
 girder at centre 5 1/2 x 14 Length as per rule 25 1/2 Distance apart 8 1/4 Number and pitch of Stays in each 2 @ 7"
 Working pressure by rules 107 Superheater or Steam chest; how connected to boiler none 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

SURVEY REQUEST

NO. 926. ATTACHED.

The foregoing is a correct description,

THOMAS HUDON & CO. LIMITED.

Manufacturer.

Dates of Survey } During progress of work in shops - - - 1914. Apr. 16. 22. 24 May 7. 12. 20. 27 Jun 5. 10. 22. 24 Is the approved plan of boiler forwarded herewith yes Returned
 while building } During erection on board vessel - - - 25. Total No. of visits 12 Return for duplicate Boiler 17/14

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under
Special Survey: is of good material and workmanship and on completion was tested by
hydraulic pressure with satisfactory results
Boiler will operate to safety when admitted under steam as here worked with.

Survey Fee ... £ 2.15-0 When applied for, 191. When received, 191.
 Travelling Expenses (if any) £

Wm Morrison Asst.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. AUG. 14. 1914

Assigned

See minute on Afl. fe. 14972



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