

REPORT ON BOILERS.

Mdb. Rpt. No 9281.

No. 67484

WED. MAY 5 - 1915

Received at London Office

pt. 5a.

MAY 4 1915

Port of NEWCASTLE-ON-TYNE.

No. in Survey held at Hebburn
 Date, First Survey Dec. 24, 1914 Last Survey Apr 24, 1915
 (Number of Visits 19) } Gross
 Net
 No. in Reg. Book. 35 on the S.S. "Conway Castle" (Smith's Dock Coy. h^o 104) Tons }
 Built at Middlesbro' By whom built Smith's Dock Coy. h^o When built 1916
 Engines made at Middlesbro' on site By whom made Smith's Dock Coy. h^o When made 1915
 Boilers made at Hebburn By whom made Palmer's S.S. & C. Coy. h^o (802) When made 1915
 Owners Castle S. Trawlers, h^o Port belonging to Swansea
 Registered Horse Power _____

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

Total Heating Surface of Boilers 1619 sq ft Is forced draft fitted no. No. and Description of Boilers one cylinder mult. single

Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 29/4/15

Area of fire grate in each boiler 50.6 sq ft No. and Description of Certificates 8483 Can each boiler be worked separately ✓

Area of each valve 4.9 sq in Pressure to which they are adjusted 185 lbs

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

Mean dia. of boilers 12' 6" Length 10' 6"

Material of shell plates Steel Thickness 1 1/8" Range of tensile strength 29 1/2 to 33 Are the shell plates welded or flanged no.

Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 4 1/2" x 3 1/2"

Per centages of strength of longitudinal joint 94.7% Working pressure of shell by plate 84.9%

No. and Description of Furnaces in each boiler 3: Plain Material Steel Outside diameter 41 1/2" Length of plain part top 76" bottom 44" Thickness of plates crown 49" bottom 64"

Working pressure of furnace by the rules 183 lb Combustion chamber

Material of stays Steel Diameter at smallest part 6.1"

Working pressure by rules 185 lb Material of stays Steel Diameter at smallest part 6.1"

Material of stays Steel Thickness 1 1/2" Material of

Material of Front plates at bottom Steel Thickness 1 1/2" Material of

Material of tube plates Steel Thickness: Front 1 1/2" Back 3/4" Mean pitch of stays 9 1/2" Pitch across wide

Water spaces 14 1/2" Working pressures by rules 181 lb 222 lb Girders to Chamber tops: Material Steel Depth and thickness of

Number and pitch of Stays in each 2: 9 1/2"

Can the superheater be shut off and the boiler worked

Superheater or Steam chest; how connected to boiler none

Can the superheater be shut off and the boiler worked

Material of flue plates Steel Thickness _____

End plates: Thickness _____ How stayed _____

Are they fitted with easing gear _____

Area of safety valves to superheater _____

The foregoing is a correct description,

For Palmer's Shipbuilding & Iron Co. Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 19

Dates of Survey while building: During progress of work in shops Dec 24, Jan 5, 7, 26, Feb 4, 16, 24, Mar 1, 11, 15, 24, 29, 31

During erection on board vessel Apr 7, 9, 14, 23, 27, 29

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

The materials and workmanship are good. This main boiler was built under special survey and on completion was tested as required by the Rules and found tight and sound. It has now been fitted and secured on board the vessel.

Vessel & Machinery building at Middlesbro' on board the vessel.

Survey Fee £ 5 : 8 : When applied for, MAY 4 1915

Travelling Expenses (if any) £ : When received, 29.6.1915

Wm. R. Austin, Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 31. MAR. 1916

Assigned

See minute book attached



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