

REPORT ON BOILERS.

No. 67241.

Received at London Office

TUE. MAR. 23. 1915

Date of writing Report 8th Jan 1915 When handed in at Local Office

191

Port of Newcastle-on-Tyne

No. in Survey held at Newcastle

Date, First Survey Aug 13. 1914. Last Survey Jan 7. 1915

Reg. Book.

(Number of Visits 27 +)

Gross 314

Tons Net 118

on the S S Blaydonian

Master Built at Shields By whom built J. P. Renoldson & Sons Ltd When built 1915

Engines made at S. Shields By whom made J. P. Renoldson & Sons Ltd When made 1915

Boilers made at Newcastle By whom made Palmers' Co. No. 795 When made 1915

Registered Horse Power

Owners Blaydon & London C.C. Co.

Port belonging to Newcastle

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel J. Spence & Sons & Palmers' Co

(Letter for record S) Total Heating Surface of Boilers 1296 sq ft Is forced draft fitted no No. and Description of

Boilers One, single-ended Working Pressure 130 lbs Tested by hydraulic pressure to 260 lbs Date of test 7-1-15

No. of Certificate 8748 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of

safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 Mean dia. of boilers 12'-4 3/8" Length 10'-0"

Material of shell plates Steel Thickness 13/16" Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams S. Lap long. seams S.B.S. J. Riv. Diameter of rivet holes in long. seams 1" Pitch of rivets 5 1/4"

Lap of plates or width of butt straps 15 1/2" Per centages of strength of longitudinal joint rivets 81.6 Working pressure of shell by

rules 133 lbs Size of manhole in shell 16" x 12" Size of compensating ring 7" x 13/16" No. and Description of Furnaces in each

boiler 3-plain Material Steel Outside diameter 38" Length of plain part top 76" Thickness of plates crown 5/8" bottom 5/8"

Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 140 lbs Combustion chamber

plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 13/16" Pitch of stays to ditto: Sides 9" x 9" Back 9" x 9"

Top 10" x 8 1/4" stays are fitted with nuts or riveted heads nuts Working pressure by rules 134 lbs Material of stays Steel Diameter at

smallest part 1 1/4" Area supported by each stay 8/16" Working pressure by rules 143 lbs End plates in steam space: Material Steel Thickness 15/16"

Pitch of stays 18" x 17" How are stays secured S.N. + W. Working pressure by rules 135 lbs Material of stays Steel Diameter at smallest part 4 1/16"

Area supported by each stay 306 sq in Working pressure by rules 139 lbs Material of Front plates at bottom Steel Thickness 7/8" Material of

Lower back plate Steel Thickness 13/16" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 172 lbs Diameter of tubes 3 1/2"

Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates Steel Thickness: Front 7/8" Back 3/4" Mean pitch of stays 10 3/4" Pitch across wide

water spaces 14" Working pressures by rules 140 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8 1/4" x 1 3/8" Length as per rule 29 1/2" Distance apart 10" Number and pitch of Stays in each 2-8 1/4"

Working pressure by rules 170 lbs 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

holes 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,

Manager, Boiler Dept.

Manufacturer.

Dates of Survey: During progress of work in shops - Aug 13, 18, 25, 28, Sep 3, 8, 10, 16, 24, 29, Oct 1, 6, 9, 14, 19, 23, 28. Is the approved plan of boiler forwarded herewith yes

while building: During erection on board vessel - see machy. report. Total No. of visits 27 +

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

This main boiler has been constructed under special survey & the materials and workmanship are found to be good.

Survey Fee £

Travelling Expenses (if any) £

When applied for, 191

When received, 191

Thomas Field
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. MAR. 26. 1915

Assigned

W414-0224

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Foundation