

REPORT ON BOILERS.

No. 66950

Received at London Office

DEC 19 1914

Port of NEWCASTLE-ON-TYNE

Date of writing Report

When handed in at Local Office

MON 22 1914

No. in Survey held at S. Shields
Reg. Book.

Date, First Survey 19th May 1914 Last Survey 25th Nov 1914
(Number of Visits) Gross 4199
Net 2679

Master Built at S. Shields By whom built J. Readhead & Sons When built 1914
Engines made at S. Shields By whom made J. Readhead & Sons When made 1914
Boilers made at S. By whom made S. When made 1914
Registered Horse Power Owners Edward Hain & Sons Port belonging to St. Geo.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spence & Sons

(Letter for record R) Total Heating Surface of Boilers 1249 sq ft Is forced draft fitted No No. and Description of Boilers One, single-ended Working Pressure 90 lbs Tested by hydraulic pressure to 140 lbs Date of test 22-10-14

No. of Certificate 8714 Can each boiler be worked separately Yes Area of fire grate in each boiler 33 sq ft No. and Description of safety valves to each boiler 2 - Spring Area of each valve 7.07 sq in Pressure to which they are adjusted 90 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 on deck Inside Means dia. of boilers 10'-9" Length 11'-0"

Material of shell plates Steel Thickness 2 1/32" Range of tensile strength 28-32 Are the shell plates welded or flanged No
Descrip. of riveting: cir. seams S. Lap long. seams S. Lap Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 4 3/8"

Lap of plates or width of butt straps 5 1/2" Per centages of strength of longitudinal joint rivets 72-8 plate 71-4 Working pressure of shell by rules 96 lbs Size of manhole in shell 16" x 12" Size of compensating ring 8" x 2 1/32" No. and Description of Furnaces in each boiler 2 - plain Material Steel Outside diameter 38" Length of plain part top 87" bottom 117" Thickness of plates crown 1 1/32" bottom 2 1/32"

Description of longitudinal joint S. Lap No. of strengthening rings Working pressure of furnace by the rules 91 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 2 1/32" Pitch of stays to ditto: Sides 10 1/2" x 10" Back 12" x 12" Top 12" x 10" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 93 lbs Material of stays Iron Diameter at smallest part 1-9 1/2" Area supported by each stay 144 sq in Working pressure by rules 103 lbs End plates in steam space: Material Steel Thickness 7/8"

Pitch of stays 18" x 20" How are stays secured In. Working pressure by rules 107 lbs Material of stays Steel Diameter at smallest part 4-11 1/2" Area supported by each stay 360 sq in Working pressure by rules 118 lbs Material of Front plates at bottom Steel Thickness 2 3/32" Material of Lower back plate Steel Thickness 2 3/32" Greatest pitch of stays 12" Working pressure of plate by rules 123 lbs Diameter of tubes 3 1/4"

Pitch of tubes 4 3/8" x 4 3/8" Material of tube plates Steel Thickness: Front 2 3/32" Back 2 3/32" Mean pitch of stays 13 1/8" Pitch across wide water spaces 13 1/2" Working pressures by rules 107 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6" x 1 1/2" Length as per rule 26" Distance apart 12" Number and pitch of Stays in each 2-10"

Working pressure by rules 115 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, John Readhead Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits

Dates of Survey while building During progress of work in shops - - - See Machinery Report
During erection on board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been constructed under special survey & the materials & workmanship are found to be good

Survey Fee ... £ Machinery Report
Travelling Expenses (if any) £

When applied for, 191
When received, 191

R. E. Arner & Thomas Field
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUE. DEC. 22. 1914

Assigned



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