

REPORT ON BOILERS.

Received at London Office MON. SEP. 10 1918

NEWCASTLE ON TYNE.

Date of writing Report 15th Aug 1918 When handed in at Local Office 1918 Port of NEWCASTLE ON TYNE.

No. in Survey held at Newcastle-on-Tyne Date, First Survey 6th May 1918 Last Survey 27th Aug 1918

Reg. Book. on the Steamer "War Beach" (Number of Visits) 52 Gross Tons 3112 Net Tons 1865

Master Built at Newcastle By whom built Signe Iron Works, Coy L. When built 1918

Engines made at Newcastle By whom made A. E. Marine Eng. Coy L. When made 1918

Boilers made at Newcastle By whom made R. W. Hawthorn Leslie & Co L. When made 1918

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencersons L.

(Letter for record S.) Total Heating Surface of Boilers 6420 sq. ft. Is forced draft fitted Yes. No. and Description of Boilers 3: Cylindrical boiler single Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 19/6/18

No. of Certificate 9104, 9109, 9114. Can each boiler be worked separately Yes. Area of fire grate in each boiler 51.7 sq. ft. No. and Description of safety valves to each boiler 2: Direct spring loaded Area of each valve 8.29 sq. in. Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

Smallest distance between boilers or uptakes and bunkers on woodwork 2'-6" Mean dia. of boilers 14'-0" Length 11'-8 1/2"

Material of shell plates Steel Thickness 1 1/8" Range of tensile strength 284 to 33 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Lap double long. seams Straps Tull Diameter of rivet holes in long. seams 1 7/16" Pitch of rivets 8 1/2"

Gap of plates or width of butt straps 1'-6" Per centages of strength of longitudinal joint 86.3 Working pressure of shell by rules 187 lbs Size of manhole in shell 16 x 12 Size of compensating ring Plate flanged No. and Description of Furnaces in each boiler 3: Deighton's Material Steel Outside diameter 43" Length of plain part 7'-6 1/2" Thickness of plates 14"

Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 190 lbs Combustion chamber plates: Material Steel Thickness: Sides 3/32" Back 3/4" Top 3/32" Bottom 3/32" Pitch of stays to ditto: Sides 12 1/2 x 8 1/2" Back 10 1/2 x 9"

Top 12 1/2 x 9 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 lbs Material of stays Steel Area at smallest part 2.36 sq. in. Area supported by each stay 99 sq. in. Working pressure by rules 216 lbs End plates in steam space: Material Steel Thickness 1 1/2"

Pitch of stays 23 1/2 x 19 1/2" How are stays secured to nuts Working pressure by rules 181 lbs Material of stays Steel Diameter at smallest part 8 1/2"

Area supported by each stay 463 sq. in. Working pressure by rules 190 lbs Material of Front plates at bottom Steel Thickness 3/32" Material of Lower back plate Steel Thickness 1 1/8" Greatest pitch of stays 14 5/8" Working pressure of plate by rules 193 lbs Diameter of tubes 2 1/2"

Pitch of tubes 4" x 4" Material of tube plates Steel Thickness: Front 3/32" Back 3/4" Mean pitch of stays 10" Pitch across wide water spaces 13 1/2" Working pressures by rules 180 lbs 202 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10 1/2 x 1 1/2" Length as per rule 35 1/2" Distance apart 9 3/8" Number and pitch of Stays in each 2: 12 1/2"

Working pressure by rules 230 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

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

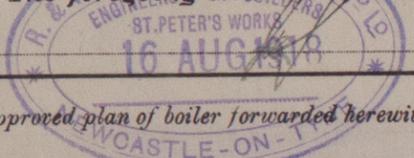
stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

FOR R. & W. HAWTHORN LESLIE & CO. LD

R. S. Armstrong

The foregoing is a correct description,



Manufacturer.

Dates of Survey During progress of work in shops

while building During erection on board vessel

1918 May 6, 10, 17, 23, 29, June 5, 7, 12, 15, 18, July 15

See weekly Report

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits 11.

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

The materials and workmanship are good these Boilers were built under special survey and on completion they were tested as required by the Rules and found tight and sound

Survey Fee When applied for 191

Travelling Expenses (if any) When received 191

Wm. Austin & Field
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE. 10. SEP. 1918

Assigned

