

REPORT ON BOILERS.

No. 10742.

Date of writing Report

1920

When handed in at Local Office

12th July 1920

Received at London Office

TUE. JUL. 13 1920

No. in Survey held at

Ref. Book.

on the S.S. Mary Aston II

Date, First Survey

30th Sept 1919

Last Survey

8th July 1920

(Number of Visits)

Gross
Tons
Net

Master

Built at

Gr Yarmouth

By whom built

Gratwick & Co Ltd

When built 1921

Engines made at

Gr Yarmouth

By whom made

Messrs Englefield & Co

When made 1921

Boilers made at

Stockton

By whom made

Messrs J. H. S. Ltd (4263)

When made 1920

Registered Horse Power

Owners

The A. Steamship Co Ltd

Port belonging to Scarborough

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

Letter for record 5) Total Heating Surface of Boilers 1183 sq ft Is forced draft fitted No. and Description of

boilers One Single ended Working Pressure 130 Tested by hydraulic pressure to 245 lbs Date of test 8-4-20

No. of Certificate 6141 Can each boiler be worked separately Area of fire grate in each boiler 34.14 sq ft No. and Description of

safety valves to each boiler 2 Direct Spring Area of each valve 4.9 sq in Pressure to which they are adjusted 132 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 or woodwork 10 in External dia. of boiler 11-6 in Length 10-0 in

Material of shell plates Steel Thickness 3/4 in Range of tensile strength 29-33 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams 2. Rlap. long. seams 2 b. 2 riv. Diameter of rivet holes in long. seams 15/16 in Pitch of rivets 5 in

Pitch of plates or width of butt straps 10 x 3/4 in Per centages of strength of longitudinal joint rivets 82.2 plate 81.2 Working pressure of shell by

rules 130 Size of manhole in shell 16 x 12 in Size of compensating ring 5 1/2 x 1 in No. and Description of Furnaces in each

boiler 2 plain Material Steel Outside diameter 42 in Length of plain part top 46 in bottom 10 1/2 in Thickness of plates crown 1/2 in bottom 3/4 in

Description of longitudinal joint weld No. of strengthening rings 4 Working pressure of furnace by the rules 139 Combustion chamber

plates: Material Steel Thickness: Sides 9/16 in Back 9/16 in Top 9/16 in Bottom 1/8 in Pitch of stays to ditto: Sides 9 x 8 in Back 9 1/2 x 9 in

Top 8 x 8 in If stays are fitted with nuts or riveted heads Working pressure by rules 131 Material of stays Steel Area at

smallest part 1.45 sq in Area supported by each stay 93.25 sq in Working pressure by rules 139 End plates in steam space: Material Steel Thickness 1 1/2 in

Pitch of stays 16 x 15 in How are stays secured 7/16 x 1/2 in Working pressure by rules 130 Material of stays Steel Area at smallest part 3.43 sq in

Area supported by each stay 236 sq in Working pressure by rules 131 Material of Front plates at bottom Steel Thickness 2 1/2 in Material of

lower back plate Steel Thickness 3/4 in Greatest pitch of stays 14 3/4 x 9 Working pressure of plate by rules 130 Diameter of tubes 3 1/2 in

Pitch of tubes 4 3/4 x 5/8 Material of tube plates Steel Thickness: Front 2 1/2 in Back 2 3/4 in Mean pitch of stays 11 1/2 in Pitch across wide

water spaces 14 in Working pressures by rules 130 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 6 3/4 x 1 1/2 Length as per rule 28 1/8 in Distance apart 8 in Number and pitch of Stays in each 20 x 8 in

Working pressure by rules 130 Steam dome: description of joint to shell none % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description, THOMAS DIXON & CO. LIMITED, Manufacturer.

A. W. Johnston

Is the approved plan of boiler forwarded herewith

Total No. of visits 20

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.

Survey Fee ... £ 3 : 19 : When applied for, Monthly

Travelling Expenses (if any) £ : : When received, 19

Committee's Minute FRI. 11 MAR. 1921.

Assigned

W. Morrison & Thomas Miller, Engineer Surveyor to Lloyd's Register of Shipping.

A. G. Farmer

Lloyd's Register Foundation

005377-005386-0153

