

REPORT ON BOILERS.

No. 28055

Received at London Office

THU. 17 MAR. 1921

Date of writing Report

19

When handed in at Local Office

16 MAR. 1921 Port of

SUNDERLAND.

No. in Survey held at

SUNDERLAND.

Date, First Survey

25 Nov. 1920 Last Survey

19

Reg. Book.

on the

S.S. "Asiatic". Ex "Arthurian"

(Number of Visits)

Gross
Tons
Net

Master

Built at Burntisland

By whom built Burntisland S.B. Co. (S/S No. 112)

When built 1921.

Engines made at

Dundee

By whom made

Cooper & Greig. Ltd

When made

1923

Boilers made at

Sunderland

By whom made

N.E. Marine Eng. Co. Ltd (No. 2506)

When made

1921

Registered Horse Power

Owners

H. H. Cochrane & Co

Port belonging to

Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel The Steel Company of Scotland Ltd.

(Letter for record (R)) Total Heating Surface of Boilers 5336 sq ft Is forced draft fitted no No. and Description of

Boilers two single ended marine Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 2-3-21

No. of Certificate 3756 Can each boiler be worked separately Yes Area of fire grate in each boiler 128 sq ft No. and Description of

safety valves to each boiler two spring loaded Area of each valve 9.6 sq in Pressure to which they are adjusted 185

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 18" Mean dia. of boilers 16'-6" Length 11'-0"

Material of shell plates steel Thickness 1 1/2" Range of tensile strength 29-33 tons Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR long. seams DBS. TR Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9 5/16" rivets 86.4

Lap of plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint plate 85.8 Working pressure of shell by

rules 180 Size of manhole in shell 16" x 12" Size of compensating ring flanged No. and Description of Furnaces in each

boiler A plain Material steel Outside diameter 3'-5 1/2" Length of plain part top 6'-3" Thickness of plates crown 49" bottom 64"

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 202 Combustion chamber

plates: Material steel Thickness: Sides 3/2" Back 3/2" Top 3/2" Bottom 3/2" Pitch of stays to ditto: Sides 9 3/8" x 12 3/4" Back 10 7/16" x 12"

Top 9 3/8" x 12 3/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 195 Material of stays Iron Area at

smallest part 2.36 sq in Area supported by each stay 177 sq in Working pressure by rules 180 End plates in steam space: Material steel Thickness 1 7/8"

Pitch of stays 23" x 23 1/2" How are stays secured BN & W Working pressure by rules 181 Material of stays steel Area at smallest part 10.22 sq

Area supported by each stay 540 sq in Working pressure by rules 192 Material of Front plates at bottom steel Thickness 2 7/8" Material of

Lower back plate steel Thickness 1 5/16" Greatest pitch of stays 14 1/2" x 10 7/16" Working pressure of plate by rules 191 Diameter of tubes 3 1/4"

Pitch of tubes 4 5/8" x 4 1/2" Material of tube plates steel Thickness: Front 7/8" Back 3/4" Mean pitch of stays 10 1/4" Pitch across wide

water spaces 14 1/2" (5 5/8" x 5 5/8") Working pressures by rules 226 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 2 @ 9 1/2" x 1" Length as per rule 2-10 1/2" Distance apart 12 3/4" Number and pitch of Stays in each 2 @ 9 3/8"

Working pressure by rules 180 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 NORTH EASTERN MARINE ENGINEERING CO. LTD

The foregoing is a correct description,

C. T. Adams

WORKS MANAGER Manufacturer.

Dates of Survey During progress of work in shops - - 1920 Nov. 25-29, Dec 7-9, 17, Feb 14, 26, 28, Mar 12 Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel - - - Total No. of visits

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

The materials and workmanship are good.

The boilers have been constructed under special survey and will be sent to Burntisland to be fitted in the vessel

These boilers have been fitted on board in a satisfactory manner, tried under steam found efficient

Survey Fee ... £ 30 : 6 : 0

When applied for,

16 MAR 1921

Travelling Expenses (if any) £ :

When received,

PAID PER SECRETARY'S LTR. 16 MAR 1921

Committee's Minute

TUE. 30 JAN. 1923

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register

005429-005438-0069