

REPORT ON BOILERS.

No. 36328

Received at London Office WED. 27 SEP. 1916

Date of writing Report

191

When handed in at Local Office

191

Port of *Glasgow*

No. in Survey held at

Glasgow

Date, First Survey

19-12-13

Last Survey

15-9-

1916

Reg. Book.

on the

2 marine return tube boilers for the S.S. "Stepney" working in R. Williamson 14078222

(Number of Visits)

Gross

Tons

Net

1916

Master

Built at

Glasgow

By whom built

Wm Beadmore & Co (416)

When built

1916

Engines made at

Coatbridge

By whom made

Wm Beadmore & Co (416)

When made

1916

Boilers made at

Glasgow

By whom made

D. Rowan & Co (No 233)

When made

1915

Registered Horse Power

Owners

Port belonging to

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

(Letter for record

(S)

Total Heating Surface of Boilers

1900 sq ft

Is forced draft fitted

no

No. and Description of

Boilers *2 single ended*

Working Pressure

80

Tested by hydraulic pressure to

Date of test *17/9/15*No. of Certificate *13249*

Can each boiler be worked separately

yes

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

inside

Mean dia. of boilers

Length

Material of shell plates *steel*

Thickness

Range of tensile strength

25 to 32

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams *double lap*long. seams *tube butt*

Diameter of rivet holes in long. seams

1/16

Pitch of rivets

6-8

Lap of plates or width of butt straps

14 1/4

Per centages of strength of longitudinal joint

rivets *86.2*

Working pressure of shell by

rules *180*

Size of manhole in shell

16 x 12

Size of compensating ring

20 x 29 x 7/8

No. and Description of Furnaces in each

boiler *2 plain*Material *steel*

Outside diameter

39 5/8

Length of plain part

6-7

Thickness of plates

crown *3/4*Description of longitudinal joint *welded*

No. of strengthening rings/part

Working pressure of furnace by the rules

192

Combustion chamber

plates: Material *steel*

Thickness: Sides

5/8

Back

5/8

Top

5/8

Bottom

*5/8*Top *9 x 7 3/4* If stays are fitted with nuts or riveted heads*nuts*

Working pressure by rules

183

Material of stays

steel

Diameter at

smallest part *1-7/16* Area supported by each stay*74 1/2*

Working pressure by rules

189

End plates in steam space: Material

steel

Thickness

*29*Pitch of stays *13 1/2 x 13* How are stays secured*2 nuts*

Working pressure by rules

180

Material of stays

steel

Diameter at smallest part

*3-49*Area supported by each stay *204*

Working pressure by rules

180

Material of Front plates at bottom

steel

Thickness

29

Material of

Lower back plate *steel*

Thickness

32

Greatest pitch of stays

13 3/4

Working pressure of plate by rules

220

Diameter of tubes

*5 1/2*Pitch of tubes *4 1/2 x 4 3/8* Material of tube plates*steel*

Thickness: Front

29

Back

13

Mean pitch of stays

11 1/8

water spaces

14

Working pressures by rules

182

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre *7 1/4 x 3/4**double*

Length as per rule

28 9/16

Distance apart

7 3/4

Number and pitch of Stays in each

(2) 9

Working pressure by rules

193

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

pro *Dava Rowan* Manufacturer.Dates of Survey
During progress of work in shops - - -
while building
During erection on board vessel - - -*Please see attached machinery report*

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

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

These boilers have been built under special survey the materials and workmanship are of good description. These Boilers have been fitted on board the vessel in a satisfactory manner.

Survey Fee

...

...

£

:

:

When applied for,

191

Travelling Expenses (if any) £

:

:

:

When received,

191

Committee's Minute

GLASGOW

26 SEP. 1916

Assigned

*See minute on attached report*A. McLeod 2020
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.*Fred. A. Ferguson*

TUE. 3-OCT. 1916

Lloyd's Register
Foundation

003208-003216-0125