

REPORT ON BOILERS.

MON. 28 DEC 1908

No. 5582

Sldrpt No 23940.

Received at London Office

SAT. 26 SEP 1908

Date of writing Report 25/9/08. When handed in at Local Office 25/9 1908 Port of

MIDDLESBROUGH-ON-TEES.

No. in Survey held at Stockton-on-Tees

Date, First Survey 29th JulyLast Survey 24th Sept 1908

Reg. Book.

on the Donkey Boiler for SS. No. 258 1/2 "Cataluna"

(Number of Visits 7)

Gross

23/12/08

Tons

1684.39

Net 1031.23.

Master J. Fortune

Built at Sunderland

By whom built R. Thompson & Son

When built 1908

Engines made at Sunderland

By whom made North Eastern Marine Eng^g

when made 1908

Boilers made at Stockton-on-Tees

By whom made Messrs. Sudron & Co. Ltd.

when made 1908

Registered Horse Power

Owners Compania Anonima

Blk No. 2403

Port belonging to

Sevilla

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Messrs. J. Spencer & Sons

(Letter for record (5))

Total Heating Surface of Boilers

582

Is forced draft fitted

no

No. and Description of

Boilers One single ended

Working Pressure

100

Tested by hydraulic pressure to

200

Date of test 24.9.08

No. of Certificate 4190

Can each boiler be worked separately

yes

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

2 Spring patent

Area of each valve

7.07

Pressure to which they are adjusted

100 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

ext-
Mean dia. of boilers

9'-6"

Length 8'-0"

Material of shell plates

Steel

Thickness

12/32

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

Lap single long. seams

Lap-3 Rivet

Diameter of rivet holes in long. seams

15/16

Pitch of rivets

3 3/8

Lap of plates or width of butt straps

6 1/2

Per centages of strength of longitudinal joint

rivets

81.7

Working pressure of shell by

rules

101 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

5 1/2" x 13/16"

boiler 2 plain

Material steel

Outside diameter

36"

Length of plain part

top 60"

Thickness of plates

crown 17/32"

bottom 81

No. and Description of Furnaces in each

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

103

Combustion chamber

plates: Material steel

Thickness: Sides 1/2"

Back 17/32"

Top 1/2"

Bottom 3/8"

Top 9" one

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

102

Material of stays

steel

Diameter at

smallest part

1.23"

Area supported by each stay

87.2

Pitch of stays

16" x 18"

How are stays secured

nuts & washers

Working pressure by rules

108

Material of stays

steel

Diameter at smallest part

2.09

Area supported by each stay

288

Lower back plate

steel

Thickness

13/16"

Greatest pitch of stays

13" x 9 1/2"

Working pressure of plate by rules

176

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

steel

Thickness: Front

13/16"

Back

3/8"

Mean pitch of stays

11

Pitch across wide

water spaces

13 3/4"

Working pressures by rules

125

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

5 1/2" x 1 1/4"

Length as per rule

21 1/4"

Distance apart

9

Working pressure by rules

100

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,

THOMAS SUDRON & CO. LIMITED.

R. Johnston Manufacturer.

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

1908 July 29. Aug 5. 25. Sep 1. 5. 21. 24

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

GENERAL REMARKS

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

This boiler has been built under special survey in accordance with the approved plan and Secretary's letter. The materials and workmanship are good and when tested by hydraulic pressure was found tight and satisfactory. The Boiler has been forwarded to Sunderland where it is to be fitted on board. This boiler has been satisfactorily mounted & fitted on board.

Survey Fee

...

...

£

2

:

2

:

0

When applied for,

19

Travelling Expenses (if any) £

✓

When received,

20.10.08

19

W. Morrison & R. W. Coomber
Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUES 29 DEC 1908

Assigned



Lloyd's Register
Foundation

03268-00326-0041