

RECEIVED

3 JUL 1950

# REPORT ON WATER TUBE BOILERS.

No. 45668

29 JUN 1950

Received at London Office

IN D.O.

Report 23.6

1950

When handed in at Local Office

24.6

1950

Port of

Glasgow

Survey held at

Date, First Survey

15th April 1949

Last Survey

9th June 1950

Reg. Book.

S.S. GENERAL SAN MARTIN

(Number of Visits

35)

Gross 12759

on the

Tons

Net 7405

Built at BIRKENHEAD

By whom built CAMMELL LAIRD & CO. LTD.

Yard No. 1203

When built

Engines made at -do-

By whom made -do-

Engine No. 1203

When made

Boilers made at RENFREW

By whom made BABCOCK & WILCOX LTD.

Boiler No. 6/1996

When made

Nominal Horse Power

Owners

Port belonging to

WATER TUBE BOILERS MAIN, MANUFACTURERS OF STEEL Colvilles Ltd.,

Date of Approval of plan 22.6.49. etc.,

Design Press. 495 lb. Drums

No. and Description or Type

of Boilers 2 - B & W Marine

Working Pressure 480 lb/

Tested by Hydraulic Pressure to 990 lb

Date of Test

26.10.49

No. of Certificate

Can each boiler be worked separately

Total Heating Surface of Boilers 10,938 sq. ft.

Superheater H.S. 1680 sq. ft.

Is forced draught fitted

Area of Fire Grate (coal) in each Boiler

No. and description of safety valves on

No. and type of burners (oil) in each boiler

each boiler One 2 1/2" I.H.L. double

Area of each set of valves per boiler

per rule

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

Height of boiler

24'0"

Width and length

17'0" x 15'0"

Steam Drums

Number in each boiler

One

Inside diameter

3'6"

Thickness of plates

1.3/4"

Range of tensile strength

28/32 tons

Are drum shell plates welded

or flanged welded

If fusion welded, state name of welding firm

Babcock & Wilcox Ltd.,

Have all the requirements of the Rules

for Class I vessels been complied with

Yes

Description of riveting: Circ. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

long. joint: Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

7.1/4"

Percentage strength of shell in way of tubes

43.44

Steam Drum Heads or Ends

Range of tensile strength

26/30 tons

Thickness of plates

1.5/8"

Radius or how stayed

3'0"

Size of manhole or handhole

16" x 12"

Water Drums: Number

in each boiler

none

Inside diameter

Thickness of plates

Range of tensile strength

Are drum shell plates

welded or flanged

If fusion welded, state name of welding firm

Have all the requirements of the Rules

for Class I vessels been complied with

Description of riveting: Circ. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

Percentage strength of long. joint: Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

7.1/4"

Percentage strength of drum shell in way of tubes

Water Drum Heads or Ends

Range of tensile strength

793 lbs.

Thickness of plates

Radius or how stayed

Size of manhole or handhole

7/16" nom.

Headers or Sections: Number

22

Material S.D. Steel

Thickness

7/16" nom.

Tested by hydraulic pressure to

793 lbs.

Tubes: Diameter

4" and 1.13/16"

Thickness

2 & 4:7 & 9

Number

70 and 979

Description of

Range of tensile

joint to

nippled

Inside diameter

6" square

Thickness of plates

3/4"

Are drum shell plates

solid drawn

strength

28/32 tons

Description of longitudinal joint

If fusion welded, state name of welding

firm

Have all the requirements for the Rules for Class I vessels been complied with

Diameter of rivet holes

plate

rivet

Pitch of rivets

Thickness of straps

Percentage strength of long. joint

plate

rivet

percentage strength of

Crown or End Plates: Range of tensile strength

Thickness

Radius or how stayed

28/32 tons

Are drum shell plates welded

or flanged

If fusion welded, state name of welding firm

Have all the requirements of the Rules

for Class I vessels been complied with

Description of riveting: Circ. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

long. joint: Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

2 1/8"

Percentage strength of

drum shell in way of tubes

Drum Heads or Ends: forged

Thickness

1 1/8" min.

Range of tensile strength

28/32 tons

Radius or how stayed

Size of manhole or handhole

3 5/8" sq.

Number, diameter, and thickness of tubes

84 @ 1 1/2" dia. 9 SWG

Tested by hydraulic pressure to

793 lbs

Date of test

May and June, 1950

Is a safety valve fitted to the superheater

No. and description of safety valves

1 - 2 1/2" I.H.L. Single

Area of each set

of valves

Pressure to which they are adjusted

Is easing gear fitted

Spare Gear. Has the spare gear required by the Rules been supplied

The foregoing is a correct description,

Babcock & Wilcox Ltd.

Manufacturer.

Dates

During progress of

work in shops

No

while

During erection on

board vessel

Total No. of visits

Is this boiler a duplicate of a previous case

No

If so, state vessel's name and report No.

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c. The pressure parts of these boilers have

been manufactured under special survey in accordance with the Rules and approved plans,

and the materials and workmanship are good. They have been sent to the Shipbuilders for

erection and installation in the vessel.

Survey Fee

£ 52 : - : -

When applied for

19

Travelling Expenses (if any)

£ : : -

When received

19

Welding Fee

£ 26 : - : -

Date

GLASGOW 28 JUN 1950

Committee's

Minute

Deferred for comp.

See Minute on Liverpool H. Mch. Rpt.

Engineer Surveyor to Lloyd's Register of Shipping.

27 FEB 1951

Lloyd's Register

008786-008788-0093