

REPORT ON WATER TUBE BOILERS.

No. 6695

Received at London Office

27 JUN 1932

Date of writing Report

19

When handed in at Local Office

19

Port of SAN FRANCISCO CAL.

No. in

Survey held at Boston Mass + San Francisco

Date, First Survey

7 April 1932

Last Survey

5 June 1932

Reg. Bk.

66 41281

on the T.W. SC. 5/5 MONTEREY.

(Number of Visits)

5

Gross 18017

Tons

Net 10580

Master

Built at Quincy Mass

By whom built

Bethlehem S. B. Corp

When built

1932

Engines made at

Quincy, Mass

By whom made

d.

When made

1932

Boilers made at

Bayonne N. J.

By whom made

Babcock + Wilcox Co.

When made

1932

Registered Horse Power

22000 SHP

Owners

Oceanic S. S. Co.

Port belonging to

San Francisco

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Bethlehem Steel Co.

(Letter for Record

5)

Date of Approval of plan

Number and Description or Type

of Boilers 12 Babcock + Wilcox

Working Pressure

400 lbs

Tested by Hydraulic Pressure to

600 lbs

Date of Test

No. of Certificate

Can each boiler be worked separately

yes

Total Heating Surface of Boilers

53520 sq

Is forced draught fitted

yes

Area of fire grate (coal) in each Boiler

✓

Total grate area of boilers in vessel including

Main and Auxiliary

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

4 B + W.

No and description of safety valves on

each boiler 2 spring loaded

Area of each valve

9.62 sq

Pressure to which they are adjusted

400 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

✓

Height of Boiler

18'-7 1/2"

Width and Length

16' x 13'-8"

Steam Drums:—Number in each boiler

One

Inside diameter

41 5/8"

Material of plates

STEEL

Thickness

1 1/16"

Range of Tensile Strength

60-70000 lbs

Are drum shell plates welded or flanged

no

Description of riveting:—

Cir. seams DOUBLE

long. seams

T. R. D. B. S.

Diameter of rivet holes in long. seams

1 1/2"

Pitch of Rivets

6"

Lap of plate or width of butt straps

21 3/4"

Thickness of straps

1 1/2" + 1"

Percentage strength of long. joint:—Plate

82.8

Rivet

104

Diameter of tube holes in drum

4 3/32"

Pitch of tube holes

7"

Percentage strength of shell in way of tubes

87.5

If Drum has a flat side state method of staying

✓

Depth and thickness of girders at centre

(if fitted)

Distance apart

✓

Number and pitch of stays in each

✓

Working pressure

by rules

✓

Steam Drum Heads or Ends:—Material

STEEL

Thickness

1 1/8"

Radius or how stayed

41 5/8" R

Size of Manhole or Handhole

12" x 16"

Water Drums:—Number in each boiler

ONE

Inside Diameter

6" □

Material of plates

Steel

Thickness

5/8"

Range of tensile strength

55000 lbs

Are drum shell plates welded

or flanged SEAMLESS

Description of riveting:—Cir. seams

✓

long. seams

✓

Diameter of Rivet Holes in

long. seams

Pitch of rivets

✓

Lap of plates or width of butt straps

✓

Thickness of straps

✓

Percentage strength of long. joint:—Plate

✓

Rivet

✓

Diameter of tube holes in drum

✓

Pitch of tube holes

✓

Percentage strength of drum shell in way of tubes

Water Drum Heads or Ends:—Material

STEEL

Thickness

3/8"

Radius or how stayed

FLAT. NOT STAYED

Size of manhole or handhole

4 1/2" x 5 1/2"

Headers or Sections:—Number

22

Material STEEL

Thickness

9/16"

Tested by Hydraulic Pressure to

1000 lbs

Material of Stays

✓

Area at smallest part

Area supported by each stay

✓

Working Pressure by Rules

400 lbs

Tubes:—Diameter

2" x 4"

Thickness

134" x 203"

Number

740-2"

44-4"

Steam Dome or Collector:—Description of Joint to Shell

✓

Percentage strength of Joint

✓

Diameter

✓

Thickness of shell plates

✓

Material

Description of longitudinal joint

✓

Diameter of Rivet Holes

✓

Pitch of Rivets

✓

Working Pressure of shell

by Rules

✓

Crown or End Plates:—Material

✓

Thickness

✓

How stayed

✓

SUPERHEATER.

Type B + W

Date of Approval of Plan

Tested by Hydraulic Pressure to

600 lbs

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

✓

Is a drain cock or valve fitted at lowest point of superheater

YES

Number, diameter, and thickness of tubes

204 - 1 1/4" - 120"

Spare Gear.

Tubes 50-4"

50-2"

Gaskets or joints:—Manhole

12

Handhole

50

Handhole plates

50

The foregoing is a correct description,

BABCOCK & WILCOX Co.

Geo. H. Daniel

Manufacturer.

Dates of Survey

During progress of

work in shops - -

while

During erection on

board vessel - - -

1932 Apr. 8, 27 JUNE 1-3

Is the approved plan of boiler forwarded herewith

FORWARDED WITH

S/S MARIPOSA

S. F. RPT 6623

Total No. of visits

5

GENERAL REMARKS

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

These boilers have not been built under Special Survey but they have been examined & they comply with the Rules & approved plans, & the workmanship & material are good. They are now in good & safe working condition & eligible, in our opinion, to receive the notation

Survey Fee

...

£

See hull

When applied for,

19

Travelling Expenses (if any) £

report

When received,

19

F. E. Archibald & John S. Heck

Engineer Surveyor to Lloyd's Register of Shipping.

NEW YORK JUN 15 1932

Committee's Minute

Assigned 12 W.T.B. Steam Pressure 400 lbs per sq. inch

014513-014530-0052