

REPORT ON WATER TUBE BOILERS.

No. 1494

Received at London Office

5 JUN 1950

Writing Report March 31st 1950 When handed in at Local Office

19

Port of Jacksonville, Fla.

Survey held at Jacksonville, Fla.

Date, First Survey October 6th. 1949

Last Survey March 8th.

1950

on the S.S. "ATHELING" ex H.M.S. "ATHELING"

(Number of Visits 105) Tons { Gross 8089

Net 4529

Tacoma, Washington.

By whom built Seattle Tacoma Shipbuilding Corp. When built 1943

made at Milwaukee, Wis.

By whom made Allis Chalmers, Co.

When made 1942

made at Carteret, N.J.

By whom made Foster Wheeler Corp. Nos. 812 & 813

When made 1942

Horse Power 1488

Owners Achille Lauro Co.

Port belonging to Genoa

ER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY—Manufacturers of Steel Bethlehem Steel Corp.

Approval of plan 23rd. October 1947 for "REMPANG" (Rpt 2337) MOBILE

Number and Description or Type

Boilers 2-Foster Wheeler Type "D" Marine, 812 & Working Pressure 525 Lbs.

Tested by Hydraulic Pressure to 788 Lbs. Date of Test Feb. 16-1950

Certificate Can each boiler be worked separately. Yes

Total Heating Surface of Boilers 15424 Sq. Ft.

draught fitted Yes

Area of fire grate (coal) in each Boiler

type of burners (oil) in each boiler Four Todd variable capacity

No. and description of safety valves on

Boiler 2 - 2 1/2" Crosby H.N.A. - 2

Area of each set of valves per boiler

per rule

as fitted 9.816 Sq. Inches.

Pressure to which they

tested 520 & 522 Lbs.

Are they fitted with easing gear Yes

In case of donkey boilers state whether steam from main boilers can enter

key boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

50"

Height of boiler 21'-05/8"

and Length

18'-4 1/8" x 14'-5 1/16"

Steam Drums: Number in each boiler One

Inside diameter

42"

ss of plates

1 19/32"

Range of Tensile Strength 65,000 Lbs.

Are drum shell plates welded

ed Welded

If fusion welded, state name of welding firm Foster Wheeler Corp.

Have all the requirements of the rules

I vessels been complied with A.B.S. & U.S.C.G.

Description of riveting: Cir. seams

long. seams

r of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

int:—Plate

Rivet

Diameter of tube holes in drum 2-1/32" & 1-9/32"

Pitch of tube holes 4 1/2", 2-3/4", 2-1/4"

age strength of shell in way of tubes 54.8 & 48.7

Steam Drum Heads or Ends: Range of tensile strength 65,000 Lbs.

ss of plates 1-11/32" & 7/8"

Radius or how stayed Ellipsoidal

Size of manhole or handhole 12" & 16"

Water Drums: Number

boiler One

Inside Diameter 32"

Thickness of plates 1-7/32"

Range of tensile strength 65,000 Lbs.

Are drum shell plates

or flanged Welded

If fusion welded, state name of welding firm Foster Wheeler Corp.

Have all the requirements of the rules

I vessels been complied with A.B.S. & U.S.C.G.

Description of riveting: Cir. seams

long. seam

r of rivet holes in long. seams

Pitch of rivets

Thickness of straps

age strength of long. joint:—Plate

Rivet

Diameter of tube holes in drum 2-1/32" & 1-9/32"

Pitch of tube holes 4 1/2", 2-3/4", 2-1/4"

age strength of drum shell in way of tubes 54.8 & 48.7

Water Drum Heads or Ends: Range of Tensile strength 65,000 Lbs.

ss of plates 1-1/32" & 2 1/32"

Radius or how stayed Ellipsoidal

Size of manhole or handhole 12" & 16"

rs or Sections: Number Three

Material Seamless Steel

Thickness 7/8"

Tested by Hydraulic Pressure to 788 Lbs.

Diameter 2" & 1-1/4"

Thickness 10 & 12 B.W.G.

Number

Steam Dome or Collector: Description of

Shell

Inside diameter

Thickness of shell plates

Range of tensile

Description of longitudinal joint

If fusion welded, state name of welding

Have all the requirements of the rules for Class I vessels been complied with

Diameter of rivet holes

f rivets

Thickness of straps

Percentage strength of long. joint

Plate

Rivet

or End Plates: Range of tensile strength

Thickness

Radius or how stayed

ERHEATER. Headers: Number in each boiler Two

Inside Diameter 8-1/4" Square

ss 1-1/8"

Material Seamless Steel

Range of tensile strength 65,000 Lbs.

Are drum shell plates welded

ed

If fusion welded, state name of welding firm

Have all the requirements of the rules

I vessels been complied with A.B.S. & USCG

Description of riveting: Cir. seams

long. seams

r of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

int:—Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes 2-1/8"

Percentage strength of

bell in way of tubes

Drum Heads or Ends: Thickness

Range of tensile strength

r how stayed

Size of manhole or handhole

Number, diameter, and thickness of tubes 1-1/4" x 10 B.W.G.

by Hydraulic Pressure to 788 Lbs.

Date of Test February 16th. 1950

Is a safety valve fitted to each section of the superheater which

shut off from the boiler Yes

No. and description of Safety Valves One 1 1/2" Crosby HNA -2

Area of each set

ss 1.767 Sq. Ins.

Pressure to which they are adjusted 473 Lbs.

Is easing gear fitted

Yes

Gear. Has the spare gear required by the rules been supplied 12 Tube Stoppers - No other Spares furnished.

The foregoing is a correct description,

Manufacturer.

During progress of

None

Is the approved plan of boiler forwarded herewith No

work in shops - -

During erection on

Boilers in vessel, on arrival here

Total No. of visits

board vessel - - -

boiler a duplicate of a previous case Yes

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boilers with Superheaters, Economizers, Mountings,

& Fastenings have been examined throughout & under Hydraulic Pressure & full working conditions, Safety Valves

tested. Boilers built & installed under A.B.S. & U.S.C.G. survey, in my opinion the material & workmanship & installation

good & suitable to be classed with the Machinery Record of LMC.2,50, with the approval of the Committee.

vey Fee

Entered on:

When applied for,

19

velling Expenses (if any) £

Rpt. 9.

When received,

19

Committee's Minute

NEW YORK MAY 31 1950

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2 WT8 - 525 lbs. sq. in. (Sht. 473 lbs. sq. in.)

Engineer Surveyor to Lloyd's Register of Shipping

006797-006808-0090