

LOW PRESSURE STEAM GENER:
REPORT ON WATER TUBE BOILERS.

N.Y.K.
No. 53551.

Received at London Office.

DEC 1954

Oct. 8th 1954

of writing Report

Survey held at Quincy, Massachusetts

19

Port of New York

Date, First Survey Feb. 19th

Last Survey Oct. 8th 1954

on the

steel, screw, steamer "Master Peter" 1635.

(Number of Visits cont.)

Gross 18,763

Net 11,609

at

Quincy, Mass.

By whom built Bethlehem Steel Co.

When built 1954.

nes made at

Quincy, Mass.

By whom made Bethlehem Steel Co.

When made 1954.

rt made at

Quincy, Mass.

By whom made Bethlehem Steel Co.

When made 1954.

inal Horse Power

3,000

Owners Bilbao Compania Naviera S.A.

Port belonging to Panama R.P.

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Co.

of Approval of plan February 29th 1952

Number and Description or Type

boiler Low pressure steam gen: Working Pressure 125 lbs

Tested by Hydraulic Pressure to 300 lbs

of Certificate

Can each boiler be worked separately one only

Total Heating Surface of Boilers 355 sq. ft.

ced draught fitted

Area of fire grate (coal) in each Boiler

unfired

nd type of burners (oil) in each boiler

No. and description of safety valves on

boiler Two - four inch relief valves.

Area of each set of valves per boiler

per rule as fitted 25.12 sq. ins. Pressure to which they

adjusted 125 lbs

Are they fitted with easing gear Yes.

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

onkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Height of boiler

b and Length 6'-9" + 11'-9"

Steam Drums: Number in each boiler one

Inside diameter 4'-5"

ness of plates 1/2"

Range of Tensile Strength 55,000 to 65,000 lbs

Are drum shell plates welded

nged welded

If fusion welded, state name of welding firm Bethlehem Steel Co.

Have all the requirements of the rules

last 11 vessels been complied with Yes.

Description of riveting: Cir. seams

long. seams

27 eter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

joint: Plate 90%

Rivet

Diameter of tube holes in drum

Pitch of tube holes

stage strength of shell in way of tubes

Steam Drum Heads or Ends: Range of tensile strength

ness of plates front hd. 3/8"

Radius or how stayed 48" radius

Size of manhole or handhole 16" x 12"

Water Drums: Number

steam boiler back hd. 1/2"

Inside Diameter

Thickness of plates

Range of tensile strength

Are drum shell plates

or flanged

If fusion welded, state name of welding firm

Have all the requirements of the rules

272 ass 1 vessels been complied with

Description of riveting: Cir. seams

long. seam

ter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Pitch of tube holes

stage strength of long. joint: Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

stage strength of drum shell in way of tubes

Water Drum Heads or Ends: Range of Tensile strength

ness of plates

Radius or how stayed

Size of manhole or handhole

ers or Sections: Number

Material

Thickness

Tested by Hydraulic Pressure to

at: Diameter 1" outside dia.

Thickness .072"

Number 147

Steam Dome or Collector: Description of

o Shell inside tube plate

Inside diameter

3'-2 1/8"

Thickness of shell plates

1. S. tube plate 2 1/8"

Range of tensile

b 55,000 to 65,000 lbs.

Description of longitudinal joint seamless

If fusion welded, state name of welding

Have all the requirements of the rules for Class 1 vessels been complied with

Diameter of rivet holes

of rivets

Thickness of straps

Percentage strength of long. joint

Plate

Rivet

or End Plates: Range of tensile strength

Thickness

Radius or how stayed

ERHEATER. Drums or Headers: Number in each boiler

Inside Diameter

Material Range of tensile strength

Are drum shell plates welded

If fusion welded, state name of welding firm

Have all the requirements of the rules

ass 1 vessels been complied with

Description of riveting: Cir. seams

long. seams

162 ter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

joint: Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of

bell in way of tubes

Drum Heads or Ends:

Thickness

Range of tensile strength

or how stayed

Size of manhole or handhole

Number, diameter, and thickness of tubes

by Hydraulic Pressure to

Date of Test

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

shut off from the boiler

No. and description of Safety Valves

Area of each set

Pressure to which they are adjusted

Is easing gear fitted

e Gear. Has the spare gear required by the rules been supplied

The foregoing is a correct description,

Manufacturer.

During progress of work in shops - - continuous.

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits continuous.

boiler a duplicate of a previous case Yes.

If so, state vessel's name and report No. N.Y.K. 52229 S/S Chryssi

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This L.P. steam generator is a horizontal two shell & tube unit, with submerged tube heating surface. Shell, heads, tube plates & baffles of steel, copper nickel, tube nest heads cast steel. Unit built under special survey to approved plans. Workmanship & materials good throughout. Examined under hydraulic test & working conditions and all found to be satisfactory.

Survey Fee £ : : When applied for, 19

travelling Expenses (if any) £ : : When received, 19

Committee's Minute

igned Su attached 1st entry Report

NEW YORK NOV 17 1954

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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