

# REPORT ON WATER TUBE BOILERS.

No. 115429

Received at London Office

27 AUG 1947

Date of writing Report

27 AUG 1947

19

When handed in at Local Office

27 AUG 1947

19

Port of London

No. in Survey held at

London

Date, First Survey

1-5-47

Last Survey

5-6-1947

eg. Book.

(Number of Visits 9)

Gross

on the S.S. SAMMEX

"SHEAFMEAD"

Tons

Net

built at Baltimore

By whom built

Bethlehem Steel Co

Yard No.

When built

1943

engines made at Harrison N.J.

By whom made

Washington Pump & Mach

Engine No.

When made

1943

boilers made at

By whom made

Babcock & Wilcox

Boiler No.

When made

1943

nominal Horse Power

Owners

Sheaf Ship. Shipping Co. Ltd.

Port belonging to Newcastle

WATER TUBE BOILERS MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Bethlehem Steel Co

Date of Approval of plan

Boilers 2, Watertube B&W marine type

Working Pressure

230 lb

Tested by Hydraulic Pressure to

375 lb

No. and Description or Type

(stated) 375 lb

Date of Test

of Certificate

Can each boiler be worked separately

Yes

Total Heating Surface of Boilers

10233 sq ft

forced draught fitted

Yes

Area of Fire Grate (coal) in each Boiler

oil fired

Total = 9704 sq ft

and type of burners (oil) in each boiler

4 B&W Decagon double port type

No. and description of safety valves on

each boiler 2 Spring loaded high lift + impulse

Area of each set of valves per boiler

per rule

as fitted

2-4" dia and 1-1/4" dia

Pressure to which they

are adjusted

250 lb

Are they fitted with easing gear

Yes

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

donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

3'0"

Height of boiler

18'7"

width and length

14'5" - 14'8"

Steam Drums: Number in each boiler

1

Inside diameter

47 3/8"

thickness of plates

15/16"

Range of tensile strength

Are drum shell plates welded

flanged

S. drawn

If fusion welded, state name of welding firm

Have all the requirements of the Rules

Class I vessels been complied with

Description of riveting: Circ. seams

Yes

long. seams

Yes

diameter of rivet holes in long. seams

Pitch of rivets

Yes

Thickness of straps

Percentage strength of

long. joint: Plate

Rivet

Yes

Diameter of tube holes in drum

2" x 4"

Pitch of tube holes

percentage strength of shell in way of tubes

Steam Drum Heads or Ends: Range of tensile strength

thickness of plates

Radius or how stayed

Size of manhole or handhole

12" x 16"

Water Drums: Number

each boiler

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

Class I vessels been complied with

Description of riveting: Circ. seams

long. seams

diameter of rivet holes in long. seams

Pitch of rivets

Yes

Thickness of straps

Percentage strength of

percentage strength of long. joint: Plate

Rivet

Yes

Diameter of tube holes in drum

Pitch of tube holes

percentage strength of drum shell in way of tubes

Water Drum Heads or Ends: Range of tensile strength

thickness of plates

15/16"

Radius or how stayed

Radius

Size of manhole or handhole

16" x 12"

headers or Sections: Number

Material

Thickness

Tested by hydraulic pressure to

tubes: Diameter

4" - 2"

Thickness

6 x 10 B & G

Number

88 x 624

Steam Dome or Collector: Description of

joint to shell

Inside diameter

Thickness of shell plates

Range of tensile

length

Description of longitudinal joint

If fusion welded, state name of welding

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

Diameter of rivet holes

pitch of rivets

Thickness of straps

Percentage strength of long. joint

plate

rivet

rown or End Plates: Range of tensile strength

Thickness

Radius or how stayed

UPERHEATER, Drums or Headers: Number in each boiler

2

Inside diameter

6" square

thickness

5/8"

Material

Range of tensile strength

Are drum shell plates welded

flanged

If fusion welded, state name of welding firm

Have all the requirements of the Rules

Class I vessels been complied with

Description of riveting: Circ. seams

long. seams

diameter of rivet holes in long. seams

Pitch of rivets

Yes

Thickness of straps

Percentage strength of

long. joint: Plate

Rivet

Yes

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of

drum shell in way of tubes

Drum Heads or Ends: Thickness

Range of tensile strength

radius or how stayed

Size of manhole or handhole

Number, diameter, and thickness of tubes

tested by hydraulic pressure to

stated 375 lb

Date of test

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

can be shut off from the boiler

Yes

No. and description of safety valves

1

Area of each set

valves

Pressure to which they are adjusted

230 lb

Is easing gear fitted

Yes

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

The foregoing is a correct description,

Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

this boiler a duplicate of a previous case. If so, state vessel's name and report No.

GENERAL REMARKS

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

Boilers examined and found in good order, workmanship and materials appear to be good. Boilers are, in our opinion, eligible to be classed subject to the plans now submitted being approved.

Survey Fee

£

When applied for

19

Travelling Expenses (if any) £

When received

19

Wm Robinson for self and E.M. SELLEX  
Engineer Surveyor to Lloyd's Register of Shipping.

Date

FRI. 12 SEP 1947

Committee's Minute

Minute

Lloyd's Register  
Foundation