

REPORT ON WATER TUBE BOILERS.

No. 117120

10 DEC 1948

10 DEC 1948

Received at London Office

10 DEC 1948

of writing Report

19

When handed in at Local Office

19

Port of

LONDON

No. in

Survey held at

LONDON

Date, First Survey

20-8-48

Last Survey

23-8-1948

eq. Bk.

1217

on the

S.S. "MARABANK"

(Number of Visits

TWO

Tons

Gross

7269

Net

4468

uilt at

BALTIMORE

By whom built

BETHLEHEM FAIRFIELD SHIPYARD INC.

When built

1943

ines made at

HAMILTON. O.

By whom made

GENERAL MACHINERY CORP.

When made

1943

ilers made at

EDGE MOOR

By whom made

BABCOCK & WILCOX, EDGE MOOR IRON WORKS

When made

1943

iminal Horse Power

Owners

BANK LINE LTD.

Port belonging to

GLASGOW

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Boilers

TWO W.T. - BABCOCK & WILCOX MARINE

Working Pressure

250 lbs

Tested by Hydraulic Pressure to

Date of Test

o. of Certificate

Can each boiler be worked separately

YES

Total Heating Surface of Boilers

10233 sq. ft.

4852 Boiler

264.5 SPT

forced draught fitted

YES

Area of fire grate (coal) in each Boiler

o. and type of burners (oil) in each boiler

FOUR. BABCOCK & WILCOX

No. and description of safety valves on

ch boiler

2 SPRING LOADED HIGH LIFT AND 1 SUPERHEAT

Area of each set of valves per boiler

per rule

as fitted

25-130" + SPT.

Pressure to which they

adjusted

250 lbs. sat. 230 lbs. 54"

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

24"

Height of boiler

18'-2 3/4"

Width and Length

13'-13 1/4" 12'-10 1/2"

Steam Drums:—Number in each boiler

ONE

Inside diameter

47 3/8"

Thickness of plates

15/16"

Range of Tensile Strength

Are drum shell plates welded

flanged

WELDED

If fusion welded, state name of welding firm

Have all the requirements of the rules

or Class I vessels been complied with

Description of riveting:—Cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

ng. joint:—Plate

Rivet

Diameter of tube holes in drum

4 1/16"

Pitch of tube holes

7"

Percentage strength of shell in way of tubes

Steam Drum Heads:—Range of tensile strength

Thickness of plates

17/16"

Radius or how stayed

RADIUS

Size of manhole or handhole

16" x 12"

MUD

Water Drums:—Number

each boiler

ONE

Inside Diameter

53 1/4" RETAINING

Thickness of plates

3/8"

Range of tensile strength

Are drum shell plates

welded or flanged

SOLID DRAWN

If fusion welded, state name of welding firm

Have all the requirements of the rules

or Class I vessels been complied with

Description of riveting:—Cir. seams

long. seam

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

4 1/16"

Pitch of tube holes

7"

Percentage strength of drum shell in way of tubes

MUD

Water Drum Heads:—Range of Tensile strength

INTEGRALLY FORGED

Thickness of plates

9/16"

Radius or how stayed

FLAT ENDS

Size of manhole or handhole

4 1/2" x 6 1/2"

headers or Sections:—Number

22

Material

FORGED STEEL

Thickness

19/32"

Tested by Hydraulic Pressure to

tubes:—Diameter

2" and 4"

Thickness

13/4" and 203"

Number

44-4" 600-2"

Steam Dome or Collector:—Description of

oint to Shell

Inside diameter

Thickness of shell plates

Range of tensile

rength

Description of longitudinal joint

If fusion welded, state name of welding

rm

Have all the requirements of 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

rown or End Plates:—Range of tensile strength

Thickness

Radius or how stayed

SUPERHEATER. Drums or Headers:—Number in each boiler

TWO

Inside Diameter

6" x 6" x 5/8"

Thickness

5/8"

Material

FORGED STEEL

Range of tensile strength

Are drum shell plates welded

flanged

SOLID FORGED

If fusion welded, state name of welding firm

Have all the requirements of the rules

or Class I vessels been complied with

Description of riveting:—Cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

ng. joint:—Plate

Rivet

Diameter of tube holes

HEADER 2" plus

Pitch of tube holes

3-75"

Percentage strength of

rum shell in way of tubes

Drum Heads or Ends:—

Thickness

Range of tensile strength

Radius or how stayed

Size of

HEADER

manhole or handhole

5 1/2" x 4 1/2"

Number, diameter, and thickness of tubes

22-2" x 13/4"

Tested by Hydraulic Pressure to

Date of Test

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

an be shut off from the boiler

shut-off

No. and description of Safety Valves

ONE - 1-25 dia. "CONSOLIDATED"

Area of each set

f valves

1-2270"

Pressure to which they are adjusted

230 lbs

Is easing gear fitted

YES

Spare Gear.

Has the spare gear required by the rules been supplied

YES

The foregoing is a correct description,

Manufacturer.

Dates

During progress of

work in shops - -

Survey

while

During erection on

board vessel - - -

building

Is the approved plan of boiler forwarded herewith

Total No. of visits

Is this boiler a duplicate of a previous case **IN ESSENTIALS** If so, state vessel's name and report No. **AMERICAN BUILT SINGLE SCREW "SAM" VESSELS** **THE EC2-S-C1**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **The boiler as seen at this time is of sound construction and good workmanship and suitable, in my opinion, for a classed vessel.**

Survey Fee £ : : } When applied for, 19

Travelling Expenses (if any) £ : : } When received, 19

Committee's Minute

Assigned

7 JAN 1949

Done

as now

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Foundation

012306-012314-0153