

## REPORT ON WATER TUBE BOILERS.

No. 70651

Date of writing Report

19

When handed in at Local Office

30.4.1946

Received at London Office

MAY 1946

No. in Survey held at

Penryn

Reg. Book.

Date, First Survey

Port of Glasgow

Last Survey 26.8.45

(Number of Visits 18)

Tons Gross 9824

Net 5818

When built 1946

When made 1946

When made 1946

Port belonging to

Carn

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

English Steel Corp. Ltd.

Date of Approval of plan

27.6.44

of Boilers

Can each boiler be worked separately

Working Pressure 850 lb.

Tested by Hydraulic Pressure to 1325 lb.

No. and Description or Type

Date of Test 14.12.45

No. of Certificate

22078

Is forced draught fitted

Yes

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

5, Wallburn (slipway type)

Total Heating Surface of Boilers

7660 sq. ft.

each boiler

1-2" 3" combined I.H.L. Double safety valve

Area of each set of valves per boiler

per rule 5.47

No. and description of safety valves on

are adjusted

3" 855 lb. on 3" headers

Area of each set of valves per boiler

as fitted 10.21"

Pressure to which they

the donkey boiler

Are they fitted with easing gear

Yes

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

Height of boiler 17'-2"

Width and length

15'-4" x 16'-8"

Steam Drums:—Number in each boiler

One

Range of tensile strength 34/38 tons

Thickness of plates

3"

Range of tensile strength 34/38 tons

Inside diameter 42"

Are drum shell plates welded

or flanged

Solid forged

If fusion welded, state name of welding firm

Description of riveting:—Circ. seams

Have all the requirements of the Rules

for Class I vessels been complied with

Diameter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

long. joint:—Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of

Percentage strength of shell in way of tubes

49%

Steam Drum Heads or Ends:—Range of tensile strength

34/38 tons

Water Drums:—Number

Thickness of plates

One

Radius or how stayed

Size of manhole or handhole

Range of tensile strength 34/38 tons

in each boiler

Inside diameter 24"

Thickness of plates 2"

Range of tensile strength 34/38 tons

Are drum shell plates welded

welded or flanged

Solid forged

If fusion welded, state name of welding firm

Description of riveting:—Circ. seams

Have all the requirements of the Rules

for Class I vessels been complied with

Diameter of rivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

long. joint:—Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of

Percentage strength of drum shell in way of tubes

49%

Water Drum Heads or Ends:—Range of tensile strength

34/38 tons

Water Drums:—Number

Thickness of plates

Integral with drum

Radius or how stayed

Size of manhole or handhole

Range of tensile strength 34/38 tons

Headers or Sections:—Number

Material

Thickness

Tested by hydraulic pressure to

Steam Dome or Collector:—Description of

Tubes:—Diameter

2 1/2" x 7"

Thickness 4 W.G. + 1/2"

Number 21402 1/2"

Range of tensile strength 34/38 tons

joint to shell

Inside diameter

Description of longitudinal joint

Range of tensile

If fusion welded, state name of welding

strength

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

Diameter of rivet holes

plate

rivet

firm

Thickness of straps

Percentage strength of long. joint

Radius or how stayed

Are drum shell plates welded

Pitch of rivets

Thickness of straps

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of

Crown or End Plates:—Range of tensile strength

49%

Water Drum Heads or Ends:—Range of tensile strength

34/38 tons

Water Drums:—Number

SUPERHEATER

REHEATER

Number in each boiler

One of each made by

the Superheater Co. Ltd.

Thickness

Material

Range of tensile strength

Inside diameter

Are drum shell plates welded

or flanged

If fusion welded, state name of welding firm

Description of riveting:—Circ. seams

Have all the requirements of the Rules

long. seams

for Class I vessels been complied with

Diameter of rivet holes in long. seams

Pitch of rivets

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

Drum Heads or Ends:—

Thickness

Range of tensile strength

Percentage strength of

Radius or how stayed

Size of manhole or handhole

Number, diameter, and thickness of tubes

Range of tensile strength

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

Tested by hydraulic pressure to

does not

Date of test

No. and description of safety valves

Area of each set

can be shut off from the boiler

apply in

Pressure to which they are adjusted

Is easing gear fitted

Total H.S. of economiser 4280

of valves

this case

The foregoing is a correct description.

Manufacturer.

Is this boiler a duplicate of a previous case

Yes

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

G.L. Rpt. No. 70347

Total No. of visits 18.

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

Yes

Heating Surface of Superheater 1850 sq. ft.

of Reheater 1550 sq. ft.

This boiler has been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. It has been sent to the shipbuilders for installation in the vessel.

Survey Fee

£57

When applied for

When received

19

Travelling Expenses (if any) £

Date

GLASGOW 30 APR 1946 12 NOV 1946

Engineer Surveyor to Lloyd's Register of Shipping.

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Committee's Minute

Deferred for completion

W.H.

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