

## REPORT ON WATER TUBE BOILERS.

No. 55344

Received at London Office

30 JAN 1935

Date of writing Report

19

When handed in at Local Office

26. 1. 1935

Port of

Glasgow

No. in

Survey held at

Glasgow

Date, First Survey

16. 4. 1934

Last Survey

23. 1. 1935

Reg. Bk.

91463.

on the

Still Main Suez Steam "Tarooma"

Number of Visits

80

Gross

4284

Tons

Net 1849

Master

Built at

Glasgow

By whom built

A. Stephen &amp; Sons Ltd.

When built

1935

Engines made at

Glasgow

By whom made

A. Stephen &amp; Sons Ltd.

When made

1935

Boilers made at

do

By whom made

do

When made

1935

Registered Horse Power

Owners Tasmanian Steamship Co. Ltd.

Port belonging to

Melbourne

## WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Drums. 20" Beardmore Co. Ltd.

(Letter for Record 5) Date of Approval of plan 20.3.34: 26.3.34: 17.4.34: 22.6.34 Number and Description of Type 15-10-34

of Boilers 3 Yarns Working Pressure 430 lbs Tested by Hydraulic Pressure to 695 lbs Date of Test 25.10.34

No. of Certificate 19462 Can each boiler be worked separately yps. Total Heating Surface of Boilers 13845 9.11.34

Is forced draught fitted yps. Area of fire grate (coal) in each Boiler Total grate area of boilers in vessel including

Main and Auxiliary No. and type of burners (oil) in each boiler 3. 6lyde Oil Fuel Co. No. and description of safety valves on

each boiler 1 improved high lift on steam Drum 2 on Superheater Drum 0 Area of each valve 3.14 Pressure to which they are adjusted 430 lbs

Are they fitted with easing gear yps. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork Height of Boiler 13-7 1/2 Width and Length 20-3 1/2 x 15-6

Steam Drums:—Number in each boiler One Inside diameter 50 Material of plates Solid forged steel Thickness 1 1/2

Range of Tensile Strength 35.4-37.6 tons Are drum shell plates welded or flanged No. Description of riveting:—

Cir. seams 2R. onlap. long. seams — Diameter of rivet holes in long. seams — Pitch of Rivets —

Lap of plate or width of butt straps — Thickness of straps — Percentage strength of long. joint:—Plate — Rivet —

Diameter of tube holes in drum 1 1/4 x 1 3/4 Pitch of tube holes 18.2 1/2: 3 3/8 Percentage strength of shell in way of tubes 33.33

If Drum has a flat side state method of staying — Depth and thickness of girders at centre

(if fitted) — Distance apart — Number and pitch of stays in each — Working pressure

by rules 456 lbs Steam Drum Heads or Ends:—Material S Thickness 1 1/2 Radius or how stayed 50

Size of Manhole or Handhole 16 x 12 Water Drums:—Number in each boiler 3 Inside Diameter 24: 23: 23

Material of plates S Thickness 1 1/2: 1 3/8: 1 1/2 Range of tensile strength 29-31.2 tons Are drum shell plates welded

or flanged No. Description of riveting:—Cir. seams 2R. onlap. long. seams Solid forged Diameter of Rivet Holes in

long. seams — Pitch of rivets — Lap of plates or width of butt straps 7 1/4 x 1 3/4 Thickness of straps 7 1/2

Percentage strength of long. joint:—Plate — Rivet — Diameter of tube holes in drum 1 1/4 x 1 3/4 Pitch of tube holes 18.2 1/2: 3 3/8

Percentage strength of drum shell in way of tubes 33.33 Water Drum Heads or Ends:—Material S Thickness 1 1/2: 3 1/2: 3 1/2

Radius or how stayed 24: 2 1/2: 2 1/2 Size of manhole or handhole 16 x 12 Headers or Sections:—Number

Material Thickness Tested by Hydraulic Pressure to Material of Stays

Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter

Thickness Number Steam Dome or Collector:—Description of Joint to Shell

Percentage strength of Joint Diameter Thickness of shell plates Material

Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell

by Rules Crown or End Plates:—Material Thickness How stayed

SUPERHEATER. Type Yarns Date of Approval of Plan 26.3.34 Tested by Hydraulic Pressure to 695 lbs

Date of Test 11.10.34: 17.10.34: 22.10.34 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler yps.

Diameter of Safety Valve 2 1/2" imp. H. 2. Pressure to which each is adjusted 415 lbs Is easing gear fitted yps.

Is a drain cock or valve fitted at lowest point of superheater yps. Number, diameter, and thickness of tubes 32 of 1 1/2 x 10 1/2

Spare Gear. Tubes 125. Gaskets or joints:—Manhole 1 set Handhole — Handhole plates —

The foregoing is a correct description,

ALEXANDER STEPHEN &amp; SONS, LIMITED Manufacturer.

Alex. Macfellan

Is the approved plan of boiler forwarded herewith yps.

Total No. of visits

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

SEE ACCOMPANYING MACHINERY REPORT

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

These Boilers have been built under special Survey sui accordance with the Rules. The materials & workmanship are good. On completion they have been tested by hydraulic pressure and found sound and tight.

28/1/35

Survey Fee

See Eng. Report

When applied for,

19

Travelling Expenses (if any)

When received,

19

J. J. J. J.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 29 JAN 1935

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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