

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 Twin Screw Steam "Tarooma" Number of Visits 80 Tons Gross 4284 Net 1849
 Master _____ Built at Glasgow By whom built A. Stephen & Sons Ltd. When built 1933
 Engines made at Glasgow By whom made A. Stephen & Sons Ltd. When made 1933
 Boilers made at do By whom made do. When made 1933
 Registered Horse Power _____ Owners Tasmanian Steamship Proprietary 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 or Type of Boilers 3 Yarns Working Pressure 430 lbs Tested by Hydraulic Pressure to 695 lbs Date of Test 15.10.34: 25.10.34: 9.11.34
 No. of Certificate 19462, 19466, 19468 Can each boiler be worked separately y/n Total Heating Surface of Boilers 13845
 Is forced draught fitted y/n 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. Lloyds Oil Fuel Co. No. and description of safety valves on each boiler 1 improved high lift on steam drum + 2 on Superheater drum Area of each valve 3.14 Pressure to which they are adjusted 430 lbs
 Are they fitted with easing gear y/n 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 1/8
 Range of Tensile Strength 35.4 - 37.6 tons Are drum shell plates welded or flanged No Description of riveting:—
 Cir. seams DR overlap 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 1/8 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 1/8: 1 3/8: 1 1/8 Range of tensile strength 29-31.2 tons Are drum shell plates welded or flanged No Description of riveting:—Cir. seams DR overlap 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 1/4
 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 1/8: 1 3/8: 1 1/8
 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 _____
 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 y/n
 Diameter of Safety Valve 2 1/2" imp. N. 2. Pressure to which each is adjusted 415 lbs Is easing gear fitted y/n
 Is a drain cock or valve fitted at lowest point of superheater y/n Number, diameter, and thickness of tubes 328 of 1 1/2" x 107
 Spare Gear. Tubes 125. Gaskets or joints:—Manhole 1 set Handhole _____ Handhole plates _____

The foregoing is a correct description,
 ALEXANDER STEPHEN & SONS, LIMITED, Manufacturer.

Alex Macfellan
 Is the approved plan of boiler forwarded herewith y/n
 Total No. of visits _____

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

SEE ACCOMPANYING MACHINERY REPORT.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 These Boilers have been built under special Survey sui accordans with the Rules. The materials & workmanship are good. On completion they have been tested by hydraulic pressure and found sound and tight.

Survey Fee ... £ _____ When applied for, 19
 Travelling Expenses (if any) £ _____ When received, 19

Joe Romano
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 29 JAN 1935

Assigned SEE ACCOMPANYING MACHINERY REPORT.

