

REPORT ON WATER TUBE BOILERS.

No. 51003

Received at London Office

12 NOV 1930

Port of Glasgow
 Date, First Survey 20. 3. 30 Last Survey 22-10-1930
 Survey held at Glasgow & Barrow
 Boilers N^o 1598. (S.S. STRATHNAVER)
 Built at Barrow By whom built Vickers-Armstrongs Ltd
 By whom made The British Thomson Houston Co Ltd When made 1931
Rugby By whom made Yarrow & Co Ltd When made 1930
 Owners Peninsular & Oriental S.S. Co Port belonging to London
 Horse Power 6315 Manufacturers of Steel Steel Co of Scotland & Eng. Steel Corp.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel
 Date of Approval of plan 5/3/30 Number and Description or Type 688 lb Date of Test 22/4/31 23/4/31
 Working Pressure 425 Tested by Hydraulic Pressure to 50,000 lb Date of Test 21/5/31
 Boilers 4 Yarrow Total Heating Surface of Boilers 4466 sq ft
 Can each boiler be worked separately Yes Total grate area of boilers in vessel including
 Area of fire grate (coal) in each boiler 4 Yarrow No. and description of safety valves on
 No. and type of burners (oil) in each boiler 4 Yarrow Pressure to which they are adjusted 446 lb
 Area of each valve 8.29 sq ft In case of donkey boilers state whether steam from main boilers can enter the donkey boiler
 Height of Boiler 20'-1" Width and Length 20'-1" x 14'-9"
 Material of plates STEEL Thickness 2 1/2"
 Diameter of rivet holes in long. seams 5/16" Percentage strength of long. joint:—Plate 33 1/3%
 Percentage strength of shell in way of tubes 33 1/3%
 Diameter of tube holes in drum 1 3/8" and 2" Pitch of tube holes 2 1/16" - 3" - 4 1/4"
 Material of stays STEEL Thickness 2" Radius or how stayed 2 @ 23"
 Inside Diameter 1 @ 36"
 Number and pitch of stays in each 3
 Water Drum Heads or Ends:—Material STEEL Number in each boiler 3
 Range of tensile strength 28-32 TONS Are drum shell plates welded
 Diameter of Rivet Holes in SOLID
 Description of riveting:—Cir. seams DR long. seams SOLID
 Lap of plates or width of butt straps 1 3/8" - 2" Thickness of straps 2 1/16" - 3" - 4 1/4"
 Pitch of tube holes 23" - 29/32"
 Diameter of tube holes in drums 1 3/8" - 2" Pitch of tube holes 23" - 29/32"
 Thickness 1 1/32"
 Headers or Sections:—Number 16" x 12"
 Material of Stays STEEL
 Tubes:—Diameter 1 3/8" & 2"
 Working Pressure of shell 425 lb

SUPERHEATER. Type YARROW Date of Approval of Plan as above Tested by Hydraulic Pressure to 688 lb
 Is a safety valve fitted to each section of the superheater which can be shut off from the Boilers shut off
 Is easing gear fitted Yes
 Diameter of Safety Valve 3 1/2" double spring H.L. Pressure to which each is adjusted 425 lb
 Is a drain cock or valve fitted at lowest point of superheater Yes
 Number, diameter, and thickness of tubes manhole 10
 Handhole plates 10
 Spare Gear. Tubes 200 Gaskets or joints:—Manhole 40 Handhole ✓

These pressure parts have been made under special survey, to approved plans in accordance with the Society's Rules. Material and workmanship is good. They are being forwarded to Barrow for erection in s.s. "Strathnaver". Men Vickers-Armstrongs Ltd. 603/4.
 Hydraulic test to be carried out on board.
 Survey Fee 3/5 Travelling Expenses (if any) £ 107-10
 When applied for 22/9/31
 When received, paid H. Sutherland
 Engineer Surveyor to Lloyd's Register of Shipping.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
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 Committee's Minute GLASGOW 11 NOV 1930
 Assigned TRANSMIT TO LONDON

