

REPORT ON WATER TUBE BOILERS.

Received at London Office

17 SEP 1928

Date of writing Report 9/8/1928 When handed in at Local Office 9/8/1928 Port of Sydney N.S.W.

No. in Reg. Bk. 08391 Survey held at Sydney N.S.W. Date, First Survey 4/7/28 Last Survey 31/7/1928
 on the S.S. "GOONAMBE" (Number of Visits 5) Gross Tons 222 Net Tons 78
 Master Built at Newcastle N.S.W. By whom built Government Dockyard When built 1919
 Engines made at Newcastle N.S.W. By whom made Government Dockyard When made 1917
 Boilers made at Renfrew, Scotland By whom made Balcock and Wilcox Ltd. When made 1918
 Registered Horse Power 68 Owners Red Funnel Fisheries Ltd. Port belonging to Sydney N.S.W.

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

(Letter for Record _____) Date of Approval of plan _____ Number and Description or Type of Boilers One - Balcock and Wilcox. Working Pressure 180 lbs. Tested by Hydraulic Pressure to 360 lbs. Date of Test 23/7/28
 No. of Certificate _____ Can each boiler be worked separately Total Heating Surface of Boilers 1820 sq. ft.
 Is forced draught fitted No. Area of fire grate (coal) in each Boiler 61 sq. ft. Total grate area of boilers in vessel including Main and Auxiliary 61 sq. ft. No. and type of burners (oil) in each boiler No. and description of safety valves on each boiler 2 spring loaded, 3" dia. Area of each valve 7.06 sq. inch. Pressure to which they are adjusted 180 lbs.
 Are they fitted with easing gear Yes. 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 2' 3" Height of Boiler 11' 6" Width and Length 11' and 12' 2"
 Steam Drums:—Number in each boiler One. Inside diameter 3' 6" Material of plates Mild steel Thickness 1/2" and 3/8"
 Range of Tensile Strength 26 to 30 tons. Are drum shell plates welded or flanged No. Description of riveting:—
 Cir. seams Single Riveted long. seams Diameter of rivet holes in long. seams 25/32" Pitch of Rivets 3 3/8"
 Lap of plate or width of butt straps 4 1/2" Thickness of straps 3/8" Percentage strength of long. joint:—Plate 75.7 Rivet 80
 Diameter of tube holes in drum 3 3/32" Pitch of tube holes 7" Percentage strength of shell in way of tubes 48.3
 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 214 lbs.
 Steam Drum Heads or Ends:—Material Mild steel Thickness 3/8" Radius or how stayed 3' 0"
 Size of Manhole or Handhole 15" by 11" Material of plates Mild steel Thickness 3/4" Range of tensile strength _____ Are drum shell plates welded or flanged Welded. Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in long. seams Pitch of rivets Lap of plates or width of butt straps Thickness of straps
 Percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum 3 15/16" Pitch of tube holes 7"
 Percentage strength of drum shell in way of tubes _____
 Radius or how stayed Flat Size of manhole or handhole 4 1/16" square Headers, or Sections:—Number 13
 Material Mild steel Thickness _____ Tested by Hydraulic Pressure to _____ Material of Stays
 Area at smallest part _____ Area supported by each stay Working Pressure by Rules _____ Tubes:—Diameter 1 1/16" and 1 3/16"
 Thickness 6, 9 and 10 lbs Number 136 and 398 small 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 Date of Approval of Plan _____ Tested by Hydraulic Pressure to
 Date of Test Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is easing gear fitted
 Is a drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes
 Spare Gear. Tubes Gaskets or joints:—Manhole 6 Handhole 100 Handhole plates 6

STEAM DRUM STAMPED:—

660405 TEST
360 LBS
W. G. M.
27-5-18

The foregoing is a correct description,

 Manufacturer.

Dates of Survey During progress of work in shops - - -
 while building During erection on board vessel - - -
 Is the approved plan of boiler forwarded herewith Yes (2)
 Total No. of visits 5 Original appo plan with lls. Rept 38037.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler constructed at Renfrew to Lloyd's Special Survey in 1918 and assembled at Newcastle N.S.W. Forced draft was originally fitted but fan has been removed from vessel and inlet blanked off. The boiler was carefully surveyed internally and externally with mountings and found in good condition, tested by water pressure to 360 lbs. per sq. inch and found tight. Found tight under steam, safety valves adjusted and blowing freely at 180 lbs. per sq. inch.

Survey Fee ... £ see chy Rpt When applied for, 19
 Travelling Expenses (if any) £ ✓ : : } When received, 19
 A.C. Heron
 J. A. C. Heron
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 25 SEP 1928
 Assigned See Syd rpt 9 attached

