

REPORT ON WATER TUBE BOILERS.

No. 15464

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Report at 19 When handed in at Local Office 19 Port of BELFAST.
 Survey held at BELFAST. Date, First Survey Please see Rpt 4a. Last Survey 19
 on the S.S. "BRAEMAR CASTLE". (Number of Visits) Tons { Gross 17029
 BELFAST. By whom built HARLAND & WOLFF LTD. When built 11/52
 at BELFAST. By whom made HARLAND & WOLFF LTD. When made 11/52
 at BELFAST. By whom made HARLAND & WOLFF LTD. When made 11/52
 se Power Owners UNION CASTLE MAIL S.S. CO. LTD. Port belonging to LONDON.

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

Approval of plan SECRETARY'S LETTER 3.4.51 AND SUBSEQUENTLY. Number and Description or Type
 B.W. 2 DRUM INTEGRAL FURNACE TYPE. DESIGN PRESSURE 505 lbs/p. Working Pressure 495 lbs/p. Tested by Hydraulic Pressure to 808 lbs/p. Date of Test 2.5.52.
 P. 1502. 9R. 1504. Can each boiler be worked separately. YES. Total Heating Surface of Boilers GENERATING 18075 SUPERHEATING 1476
 1503. YES. Area of fire grate (coal) in each Boiler TOTAL 195514
 1503. YES. Area of fire grate (oil) in each boiler 5 BABCOCK & WILCOX. No. and description of safety valves on

2 1/2" S. COCKBURN IMPROVED HIGH LIFT. Area of each set of valves per boiler { per rule
 495 lbs/p. Are they fitted with easing gear YES. In case of donkey boilers state whether steam from main boilers can enter
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length 15'-5" x 14'-5" Steam Drums:—Number in each boiler ONE. Inside diameter 18'-9"
 plates TUBE PLATE 3/8" WRAPPER PLATE 1/16" Range of Tensile Strength 28/32. Are drum shell plates welded
 LODED. If fusion welded, state name of welding firm HARLAND & WOLFF LTD. Have all the requirements of the rules
 sels been complied with YES. Description of riveting:—Cir. seams long. seams
 rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of

plate Rivet 27.7% FOR 1 1/4" TUBES. Diameter of tube holes in drum 1 1/4" 2" 3 1/4" 4 1/2". Pitch of tube holes 4 1/4" 3 1/4" FOR 2" TUBES.
 length of shell in way of tubes 38% 52.5% FOR 2" TUBES. Steam Drum Heads or Ends:—Range of tensile strength 26/30.
 plates 1 1/2" Radius or how stayed 3'-6" RAP. INSIDE. Size of manhole or handhole 16" x 12". Water Drums:—Number
 ONE. Inside Diameter TUBE 1'-2 1/2" RAP. WRAPPER 1'-3 1/8" RAP. Thickness of plates TUBE PL. 1/16" Range of tensile strength 28/32. Are drum shell plates
 welded WELDED. If fusion welded, state name of welding firm HARLAND & WOLFF LTD. Have all the requirements of the rules
 sels been complied with YES. Description of riveting:—Cir. seams long. seam
 rivet holes in long. seams Pitch of rivets Thickness of straps

length of long. joint:—Plate Rivet 27.7% FOR 1 1/4" TUBES. Diameter of tube holes in drum 1 1/4" 2" 3 1/4" 4 1/2". Pitch of tube holes 4 1/4" 3 1/4" FOR 2" TUBES.
 length of drum shell in way of tubes 38% 52.5% FOR 2" TUBES. Water Drum Heads or Ends:—Range of Tensile strength 26/30.
 plates 1" Radius or how stayed 2'-6" RAP. INSIDE. Size of manhole or handhole 16" x 12".
 sections:—Number ONE. Material M.S. Thickness 7/8" END 3/4". Tested by Hydraulic Pressure to 808 lbs/p.
 eter 1 1/4" 2" 3 1/4" 4 1/2". Thickness 1 1/4" 105 N.G. 3/4" 35 N.G. Number 2'-11 1/2" 4 1/2" 12. Steam Dome or Collector:—Description of
 Inside diameter Thickness of shell plates Range of tensile
 Description of longitudinal joint If fusion welded, state name of welding

Have all the requirements of the rules for Class I vessels been complied with Diameter of rivet holes
 Thickness of straps Percentage strength of long. Joint Plate Rivet
 Plates:—Range of tensile strength Thickness Radius or how stayed
 EATER. Drums or Headers:—Number in each boiler 2. Inside Diameter 6" 5/8" INSIDE.
 1 1/8" Material STEEL. Range of tensile strength 28/32. Are drum shell plates welded
 FORGED. If fusion welded, state name of welding firm Have all the requirements of the rules
 sels been complied with YES. Description of riveting:—Cir. seams long. seams
 rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of

plate Rivet Diameter of tube holes in drum 1 1/4" Pitch of tube holes 1 7/8" Percentage strength of
 way of tubes 32.5. Drum Heads or Ends:—ENDS. Thickness 1" Range of tensile strength 28/32.
 stayed FLAT. Size of manhole or handhole 3 1/2" 3/4" SQUARE. Number, diameter, and thickness of tubes 110- 1 1/4" 105 N.G.
 raulic Pressure to 810 lbs/p. Date of Test 4.8.52 - 6.8.52 - 14.8.52. Is a safety valve fitted to each section of the superheater which
 from the boiler No. and description of Safety Valves 1- 2 1/2" C.S. IMP. HIGH LIFT. Area of each set
 4.908 sq. ins. Pressure to which they are adjusted 485 lbs/p. Is easing gear fitted YES.

Has the spare gear required by the rules been supplied YES.
 The foregoing is a correct description,
 Manufacturer.

ring progress of
 work in shops - -
 ring erection on
 and vessel - -
 a duplicate of a previous case YES. If so, state vessel's name and report No. KENYA CASTLE. BEL. 15346.

REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers were constructed and
 under Special Survey in accordance with Rules, approved plans and Secretary's Letters. The
 and workmanship are good. On completion each boiler was examined under full
 conditions, and Safety Valves adjusted to above pressures.

Expenses (if any) £ : : When applied for, 19
 : : : When received, 19

's Minute TUES. 16 DEC 1952
 See R.F.E. mshy.sph.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation