

REPORT ON WATER TUBE BOILERS.

No. 133067
6 JUN 1951

Received at London Office.

Date of writing Report 8-5 1951 When handed in at Local Office 9-5 1951 Port of LIVERPOOL
 No. in Survey held at Birkenhead Date, First Survey 16/6/49 Last Survey 30-4-1951
 Reg. Book. on the single screw tug "GENERAL PUEYREDON" (Number of Visits 3/8) Gross 12741 Tons Net 7396
 Built at Birkenhead By whom built Cammell, Laird & Co. Ltd. Yard No. 1204 When built 1951
 Engines made at Birkenhead By whom made Cammell, Laird & Co. Ltd. Engine No. 1204 When made 1951
 Boilers made at Birkenhead By whom made Cammell, Laird & Co. Ltd. Boiler No. 1204 When made 1951
 Name of Home Port see Rpt 4a Owners Yacimientos Petroliferos Fiscales Port belonging to Buenos Aires

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

Date of Approval of plan 22-6-49 etc. 495 (Design) No. and Description or Type of Boilers 2 B+W Sectional Header Working Pressure 480 lb Tested by Hydraulic Pressure to 793 lb Date of Test 13-11-50
 No. of Certificate 2787, 2788 Can each boiler be worked separately? Yes Total Heating Surface of Boilers 10,938 sq ft; Super 1680 sq ft
 Is forced draught fitted? Yes Area of Fire Grate (coal) in each Boiler —
 No. and type of burners (oil) in each boiler 4 Wellhead No. and description of safety valves on each boiler one double 2½" Improved High Lift Area of each set of valves per boiler { per rule 6.70" as fitted 9.80" Pressure to which they are adjusted 480 lb 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 Well clear Height of boiler 24'-0"
 Width and length 17'-0" x 15'-0" Steam Drums:—Number in each boiler one Inside diameter 3'-6"
 Thickness of plates 1¾" Range of tensile strength 28-32 T/O" Are drum shell plates welded or flanged? Welded If fusion welded, state name of welding firm Babcock & Wilcox, Ltd. Have all the requirements of the Rules for Class I vessels been complied with? Yes Description of riveting:—Circ. seams — long. seams —
 Diameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of long. joint:—Plate — Rivet — Diameter of tube holes in drum 4" Pitch of tube holes 7¼"
 Percentage strength of shell in way of tubes 43.44 Steam Drum Heads or Ends:—Range of tensile strength 26-30 T/O"
 Thickness of plates 1½" Radius or how stayed 3'-0" Size of manhole or handhole 16" x 12" Water Drums:—Number in each boiler one Inside diameter — Thickness of plates — Range of tensile strength — Are drum shell plates welded or flanged? — If fusion welded, state name of welding firm — Have all the requirements of the Rules for Class I vessels been complied with? — Description of riveting:—Circ. seams — long. seams —
 Diameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of long. joint:—Plate — Rivet — Diameter of tube holes in drum — Pitch of tube holes —
 Percentage strength of drum shell in way of tubes — Water Drum Heads or Ends:—Range of tensile strength —
 Thickness of plates — Radius or how stayed — Size of manhole or handhole —
 Headers or Sections:—Number 22 Material S.D. Steel Thickness 7/16" min. Tested by hydraulic pressure to 793 lb.
 Tubes:—Diameter 4" & 1½" Thickness 2 & 4; 7 & 9 LSG Number 70, 979 MUD DRUM Steam Dome or Collector:—Description of joint to headers Ripped Inside diameter 6" square Thickness of shell plates 3/4" Range of tensile strength 28-32 T/O" Description of longitudinal joint S.S. drawn If fusion welded, state name of welding firm — Have all the requirements for the Rules for Class I vessels been complied with? — Diameter of rivet holes —
 Pitch of rivets — Thickness of straps — Percentage strength of long. joint — plate — rivet —
 Crown or End Plates:—Range of tensile strength — Thickness — Radius or how stayed —
 SUPERHEATER, Drums or Headers:—Number in each boiler one inner, 1 outer Inside diameter 9½"
 Thickness 1¼" Material S.D. Steel Range of tensile strength 28-32 T/O" Are drum shell plates welded or flanged? — If fusion welded, state name of welding firm — Have all the requirements of the Rules for Class I vessels been complied with? — Description of riveting:—Circ. seams — long. seams —
 Diameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of long. joint:—Plate — Rivet — Diameter of tube holes in drum 1½" Pitch of tube holes 2½" Percentage strength of drum shell in way of tubes — Drum Heads or Ends:—forged Thickness 1½" min. Range of tensile strength —
 Radius or how stayed — Size of manhole or handhole 3½" square Number, diameter, and thickness of tubes 84 2½", 9 4.
 Tested by hydraulic pressure to 793 lbs Date of test 31-10-50 Is a safety valve fitted to each section of the superheater which can be shut off from the boiler? Integral No. and description of safety valves one 2½" single Improved High Lift Area of each set of valves 4.90" Pressure to which they are adjusted 470 lb Is easing gear fitted? Yes
 Spare Gear. Has the spare gear required by the Rules been supplied? Yes

CAMMELL LAIRD AND COMPANY, LIMITED.
The foregoing is a correct description,E. Stewart Manufacturer.
for ENGINEERING MANAGER

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

Is the approved plan of boiler forwarded herewith? —

Total No. of visits

Is this boiler a duplicate of a previous case? Yes If so, state vessel's name and report No. GENERAL SAN MARTIN.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under special survey in accordance with the approved plans, the Society's Rules and the Society's letters. The materials and workmanship are good. They have been properly installed in the vessel and tried under working conditions with satisfactory results.

Survey Fee ... see Rpt 4a : : When applied for 19
 Travelling Expenses (if any) £ — : : When received 19

Date LIVERPOOL - 5 JUN 1951

Committee's Minute see Rpt 4a

Engineer Surveyor to Lloyd's Register of Shipping.

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