

REPORT ON WATER TUBE BOILERS.

No. 132467.

Received at London Office 28 FEB 1951

Date of writing Report 7-2-1951 When handed in at Local Office 7-2-1951 Port of Liverpool
 No. in Survey held at Birkenhead Date, First Survey 16/6/49 Last Survey 30-1-1951
 Reg. Book. on the single screw Tug "GENERAL SAN MARTIN" (Number of Visits) Gross 12769-0
 Built at Birkenhead By whom built Cammell, Laird & Co. Ltd. Yard No. 1203 When built 1951
 Engines made at Birkenhead By whom made Cammell, Laird & Co. Ltd. Engine No. 1203 When made 1951
 Boilers made at Birkenhead By whom made Cammell, Laird & Co. Ltd. Boiler No. 1203 When made 1951
 Owners Yacimientos Petroliferos Fiscales Port belonging to Buena Vista

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

Date of Approval of plan 22-6-49 re. See Plans on Rpt. 45648 No. and Description or Type of Boilers 2-B.W. Sectional Header Working Pressure 4.80 lb Tested by Hydraulic Pressure to 793 Date of Test 22-5-50
 No. of Certificate 2775, 2779 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 4 ballhead
 No. and type of burners (oil) in each boiler 4 ballhead No. and description of safety valves on each boiler one double 2 1/2" Sup. High Lift Area of each set of valves per boiler per rule 6.7 sq. in. as fitted 9.8 sq. in. Pressure to which they are adjusted 4.80 lb Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler to 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 1 3/4" Range of tensile strength 28-32 T/0" 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 7 1/4"
 Percentage strength of shell in way of tubes 43.44 Steam Drum Heads or Ends:—Range of tensile strength 26-30 T/0"
 Thickness of plates 1 5/8" Radius or how stayed 3'-0" Size of manhole or handhole 16 x 12" Water Drums:—Number in each boiler none 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 SD Steel Thickness 7/16" - 1/2" Tested by hydraulic pressure to 793 lb
 Tubes:—Diameter 4" + 1 1/2" Thickness 2 + 4, 7 + 9 LSG Number 70, 979 MUD DRUM
 joint to headers hippled Inside diameter 6" square Thickness of shell plates 3/4" Description of longitudinal joint solid drawn
 strength 28-32 T/0" 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 inlet, one outlet Inside diameter 9 1/2"
 Thickness 1 1/4" Material SD Steel Range of tensile strength 28-32 T/0" 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
 Drum Heads or Ends: forged Thickness 1 5/8" in Range of tensile strength
 Radius or how stayed 3 5/8" square Number, diameter, and thickness of tubes 84 @ 1 1/2", 9 SWG
 Tested by hydraulic pressure to 793 lb Date of test 21 + 28-6-50 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 2 1/2" single Sup. High Lift Area of each set of valves 4.9 sq. in. Pressure to which they are adjusted 4.70 lb Is easing gear fitted yes
 Spare Gear. Has the spare gear required by the Rules been supplied yes

The foregoing is a correct description,

E. Stewart Manufacturer.
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 to

Total No. of visits

Is this boiler a duplicate of a previous case to If so, state vessel's name and report No.

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 Secretary's letters. The materials and workmanship are good. They have been properly installed in the vessel, & tried under working conditions with satisfactory results.

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

Date 27 FEB 1951

Committee's Minute See Minute on H. Inchey. Rpt. 45

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

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