

REPORT ON WATER TUBE BOILERS.

No. 4813

5 - MAY 1947

Received at London Office

of writing Report 1st April, 1947 When handed in at Local Office 1st April, 1947 Port of Galveston, Texas
 o. in Survey held at Galveston, Texas Date, First Survey 20th February Last Survey 1st March, 1947
 on the S/S "JAMES D. PHELAN" (Number of Visits 4)
 at Richmond, Cal. By whom built Permanente Metals Corp. (Shipyard No. 2) When built 1943
 nes made at Sunnyvale, Cal. By whom made Joshua Hendy Iron Works When made 1943
 rs made at California By whom made Western Pipe & Steel Co. When made 1943
 inal Horse Power 634.8 Owners Scindia Steam Navigation Co. Port belonging to Bombay

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Clark & Luken Steel Co.

of Approval of plan - Number and Description or Type Two - Water tube
 Boilers Two - Water tube Working Pressure 250 Tested by Hydraulic Pressure to 375 Date of Test 22-2-43

of Certificate - Can each boiler be worked separately Yes Total Heating Surface of Boilers 9704 sq. ft. + 520
 forced draught fitted Yes Area of fire grate (coal) in each Boiler - = 16233.5

nd type of burners (oil) in each boiler Four Todd "Hex-Press" No. and description of safety valves on
 boiler One twin consolidated Area of each set of valves per boiler { per rule 22.9 sq. inches
 as fitted 25.12 sq. inches Pressure to which they

adjusted 250 lbs. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
 donkey boiler - Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler 16' 5 5/8"

h and Length 14' 7 3/4" x 18' 7 1/2" Steam Drums:—Number in each boiler One Inside diameter 47 3/8"
 nness of plates 15/16" Range of Tensile Strength 70,000 - 82,000 lbs. Are drum shell plates welded

nged welded If fusion welded, state name of welding firm - Have all the requirements of the rules
 lass I vessels been complied with Built under ABS & USCG Description of riveting:—Cir. seams - long. seams -

eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of
 joint:—Plate - Rivet - Diameter of tube holes in header 4 1/64 Pitch of tube holes 7"

ntage strength of shell in way of tubes 42.5 Steam Drum Heads or Ends:—Range of tensile strength 60,000-70,000 lbs.
 nness of plates 15/16" Radius 38" Size of manhole or handhole 12" x 16" Water Drums:—Number

h boiler None Inside Diameter Square Thickness of plates 3/4" Range of tensile strength 60,000-70,000 Are drum shell plates
 d or flanged Solid drawn If fusion welded, state name of welding firm - Have all the requirements of the rules

lass I vessels been complied with A.B.S. & U.S.C.G. Description of riveting:—Cir. seams - long. seam -
 eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -

ntage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -
 ntage strength of drum shell in way of tubes - Water Drum Heads or Ends:—Range of Tensile strength -

nness of plates - Radius or how stayed - Size of manhole or handhole -
 ers or Sections:—Number 22 Material Steel Thickness 9/16" Tested by Hydraulic Pressure to 375 lbs.

o Shell 2" and 4" Thickness 10 & 6 B.W.G. Number 602 & 44 Steam Dome or Collector:—Description of
 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 -

Range of tensile strength - Thickness - Radius or how stayed -
 ERHEATER. DRUMS Headers:—Number in each boiler Two Inside Diameter 6" square

Material Steel Range of tensile strength 60,000 - 70,000 Are drum shell plates welded
 Forged If fusion welded, state name of welding firm - Have all the requirements of the rules

lass I vessels been complied with A.B.S. & U.S.C.G. Description of riveting:—Cir. seams - long. seams -
 eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of

oint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of
 bell in way of tubes - Drum Heads or Ends:—Thickness - Range of tensile strength -

Size of manhole or handhole - Number, diameter, and thickness of tubes 22-2" 10 B.W.G.
 by Hydraulic Pressure to 375 lbs. Date of Test 22/2/43 22/9/43 Is a safety valve fitted to each section of the superheater which

shut off from the boiler Yes No. and description of Safety Valves One high lift Area of each set
1.76 sq. inches Pressure to which they are adjusted 230 lbs. Is easing gear fitted No

Gear. Has the spare gear required by the rules been supplied Yes

The foregoing is a correct description,

Manufacturer.

ey } During progress of work in shops - - } Is the approved plan of boiler forwarded herewith.
 g } During erection on board vessel - - - } Total No. of visits

boiler a duplicate of a previous case. If so, state vessel's name and report No. Chelator & James Dan

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The two W. T. boilers described above have,
ther with all mountings, been opened up, examined throughout, placed in order, and again examined
r steam and in the opinion of the undersigned, the workmanship is good, the boilers well
alled and suitable to be classed with this Society with record of BS 3-47.

vey Fee £ \$115.00 When applied for, 27/3/ 19 47
 velling Expenses (if any) £ : : } When received, 19

nittee's Minute NEW YORK APR 16 1947
 ned 2 W.T.B. - 250 lbs. (each)

James T. ...
 Engineer Surveyor to Lloyd's Register of Shipping.

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