

REC'D NEW YORK DEC 19 1947

pt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 4903

Received at London Office 27 JAN 1948

Date of writing Report 8th Nov., 1947 When handed in at Local Office 8th Nov., 1947 Port of Galveston, Texas
 No. in Survey held at Port Arthur, Texas Date, First Survey 13th Aug. Last Survey 8th October, 1947
 Name of vessel on the S/S "GULFDOWN" (Number of Visits 2) Gross Tons 7096 Net Tons 4337
 Built at Chester, Pa. By whom built Sun S. B. & D. D. Co. When built 1936
 Engines made at Philadelphia, Pa. By whom made Westinghouse Elec. & Mfg. Co. When made 1934
 Boilers made at Sparrows Pt., Md. By whom made Bethlehem Steel Corp. When made 1936
 Original Horse Power Owners Sabine Transportation Co. Port belonging to Baltimore, Md.

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

Date of Approval of plan - Number and Description or Type Boilers 2 - F. W. Boilers Working Pressure 450 Tested by Hydraulic Pressure to 675 Date of Test 12/9/47

Class of Certificate B.N. & S.I. 45 & Can each boiler be worked separately Yes Total Heating Surface of Boilers 9670 sq. ft.
 Forced draught fitted Yes Area of fire grate (coal) in each Boiler - see below

Kind and type of burners (oil) in each boiler 3-burners Todd Hex-Press No. and description of safety valves on boiler 2 - Consolidated Main Boiler Area of each set of valves per boiler { per rule - as fitted - Pressure to which they are adjusted 450 boiler 440 sup. heat 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 17'-9 1/2"

Width and Length 16'-6" x 12'-3 5/16" Steam Drums: Number in each boiler 1 steam drum Inside diameter 48 I.D.
 Thickness of plates 1 9/16" Range of Tensile Strength 60,000 Are drum shell plates welded Yes

Flanged If fusion welded, state name of welding firm - Have all the requirements of the rules Class I vessels been complied with Yes Description of riveting: Cir. 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 1 1/2" & 2" Pitch of tube holes 2 1/4" & 2 3/8"

Percentage strength of shell in way of tubes - Steam Drum Heads or Ends: Range of tensile strength 60,000
 Thickness of plates 1 17/32" Radius or how stayed 43 1/2" Size of manhole or handhole 12" x 16" Water Drums: Number 2 Inside Diameter 30" Thickness of plates 1 3/32" Range of tensile strength 60,000 Are drum shell plates welded or flanged Welded If fusion welded, state name of welding firm - Have all the requirements of the rules

Class I vessels been complied with Yes Description of riveting: Cir. seams - long seam -
 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 1 1/2" & 2" Pitch of tube holes 2 1/4" & 2 3/8"

Percentage strength of drum shell in way of tubes - Water Drum Heads or Ends: Range of Tensile strength 60,000
 Thickness of plates 31/32" Radius or how stayed 28 1/2" Size of manhole or handhole 12" x 16"

Readers or Sections: Number 2 Material Steel Thickness 7/8" Tested by Hydraulic Pressure to 675 lbs.
 Tubes: Diameter 1 1/2" & 2" Thickness 11/4" & 10/16" Number 24 Steam Dome or Collector: Description of - Range of tensile strength - If fusion welded, state name of welding firm - Have all the requirements of the rules for Class I vessels been complied with - Diameter of rivet holes -

Kind 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 4 Inside Diameter 7 3/4" sq.
 Thickness 1" Material Steel Range of tensile strength 60,000 Are drum shell plates welded

Flanged Welded If fusion welded, state name of welding firm - Have all the requirements of the rules
 Class I vessels been complied with - Description of riveting: Cir. 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 1 1/4" x 10/16" Pitch of tube holes 2" Percentage strength of drum shell in way of tubes - Drum Heads or Ends: Thickness - Range of tensile strength 60,000

Radius or how stayed - Size of manhole or handhole 2" Number, diameter, and thickness of tubes 84 - 109 (10/16" - 1/4")
 Tested by Hydraulic Pressure to 675 Date of Test 12th Sept., 1947 Is a safety valve fitted to each section of the superheater which can be shut off from the boiler Yes No. and description of Safety Valves 1 - Crosby spring loaded Area of each set of valves - Pressure to which they are adjusted 440 lbs. Is easing gear fitted Yes

Spare Gear. Has the spare gear required by the rules been supplied In excess of rule requirements.
 H.S. per lb = 2820 # Total for 2 lbs. for key bolt. Spt = 853 # = 9361 #

The foregoing is a correct description,

Manufacturer.

Dates } During progress of } - Is the approved plan of boiler forwarded herewith } Yes
 Survey } work in shops }
 while } During erection on }
 building } board vessel }
 Total No. of visits -

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Now generally examined (see Galveston Rpt.) and found efficiently installed and securely fitted in the vessel, particulars and arrangements verified and so far as seen found in accordance with the Society's Rules.

Survey Fee £ See: Rpt.: 9 } When applied for, 19
 Travelling Expenses (if any) £ : : } When received, 19

Committee's Minute
 Assigned 2 WTB (SPT) 450 lbs.

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James Lindsay
 Engineer Surveyor to Lloyd's Register of Shipping.

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