

REC'D NEW YORK DEC 19 1947

pt. 5c.

## REPORT ON WATER TUBE BOILERS.

No. 4903

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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  
 g. Bk. on the S/S "GULFDOWN" (Number of Visits 2) Tons { Gross 7096  
 Net 4337  
 lt at Chester, Pa. By whom built Sun S. B. & D. D. Co. When built 1936  
 gines made at Philadelphia, Pa. By whom made Westinghouse Elec. & Mfg. Co. When made 1934  
 lers made at Sparrows Pt., Md. By whom made Bethlehem Steel Corp. When made 1936  
 iminal Horse Power Owners Sabine Transportation Co. Port belonging to Baltimore, Md.

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

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  
 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 -  
 and type of burners (oil) in each boiler 3-burners Todd Hex-Press No. and description of safety valves on  
 b boiler 2 - Consolidated Main Boiler Area of each set of valves per boiler { per rule -  
 1 - Crosby on Sup. Heat 1/2" each boiler { as fitted - Pressure to which they  
 adjusted 450 boiler 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"  
 dth 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  
 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 3 7/8" & 7 3/4"  
 g. 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  
 each boiler 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 - 3 1/4" & 3 7/8"  
 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"  
 Headers 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" on plan Number 24 Steam Dome or Collector:—Description of  
 nt to Shell - Inside diameter - Thickness of shell plates - Range of tensile  
 length - 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 -  
 ch of rivets - Thickness of straps - Percentage strength of long. joint - Plate - Rivet -  
 own or End Plates:—Range of tensile strength - Thickness - Radius or how stayed 3 3/4" sq.

**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  
 g. joint:—Plate - Rivet - Diameter of tube holes in drum 1 1/4" x 10/16" Pitch of tube holes 2" Percentage strength of  
 um shell in way of tubes - Drum Heads or Ends:—Thickness - Range of tensile strength 60,000  
 dius or how stayed - Size of manhole or handhole 2" Number, diameter, and thickness of tubes 84 - 109 (10/16" on plan)  
 tested by Hydraulic Pressure to 675 Date of Test 12th Sept., 1947 Is a safety valve fitted to each section of the superheater which  
 be shut off from the boiler Yes No. and description of Safety Valves 1 - Crosby spring loaded Area of each set  
 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.

The foregoing is a correct description,

Manufacturer.

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

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits -

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, &amp;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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Engineer Surveyor to Lloyd's Register of Shipping.

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