

REPORT ON WATER TUBE BOILERS.

No. 7272

Received at London Office MAY 10 1937

Date of writing Report 14th April 1937 When handed in at Local Office 15th April 1937 Port of Philadelphia
 No. in Survey held at Chester Pa Date, First Survey Dec 8th Last Survey March 30th 1937
 Reg. Bk. M V. TEXAS SUN (Number of Visits 8) Tons Gross Net
 Master Built at Chester Pa By whom built Sun Ship Bldg Co When built 1937
 Engines made at Chester Pa By whom made Sun Ship Bldg Co When made "
 Boilers made at Carter M. Danville M. By whom made Foster Wheeler Corp. When made "
 Registered Horse Power 1145 Owners Sun Oil Co Port belonging to Philadelphia

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

(Letter for Record 5) Date of Approval of plan Nov 4th 1937 Number and Description or Type of Boilers 1 Water tube. Exhaust gas fired only. Working Pressure 200 lb Tested by Hydraulic Pressure to 400 Date of Test March 16th
 No. of Certificate 698 Can each boiler be worked separately Total Heating Surface of Boilers 1872
 Is forced draught fitted No Area of fire grate (coal) in each Boiler Total grate area of boilers in vessel including Main and Auxiliary No. and type of burners (oil) in each boiler No and description of safety valves on each boiler 21 Spring loaded Area of each valve 1.77 sq ft Pressure to which they are adjusted 110 lb
 Are they fitted with easing gear 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 Height of Boiler Width and Length 6-7 1/2 ft
 Steam Drums:—Number in each boiler 1 Inside diameter 30" Material of plates Steel Thickness 7/16"
 Range of Tensile Strength 60/70,000 lb Are drum shell plates welded or flanged Fusion welded Description of riveting:—
 Cir. seams Fusion welded long. seams Fusion welded Diameter of rivet holes in long. seams Pitch of Rivets
 Lap of plate or width of butt straps Thickness of straps Percentage strength of long. joint:—Plate 90% allowed Rivet
 Diameter of tube holes in drum 2 1/32" Pitch of tube holes 47/8 Percentage strength of shell in way of tubes 58.4%
 If Drum has a flat side state method of staying No flat side Depth and thickness of girders at centre (if fitted)
 by rules 227 lb Steam Drum Heads or Ends:—Material Steel Thickness 1/2" & 19/32 Radius or how stayed 30" Radius
 Size of Manhole or Handhole 12 x 16" Water Drums:—Number in each boiler None Inside Diameter
 Material of plates Thickness Range of tensile strength Are drum shell plates welded or flanged Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in long. seams Pitch of rivets Lap of plates or width of butt straps 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:—Material Thickness
 Radius or how stayed Size of manhole or handhole Headers or Sections:—Number 1-6" diam
 Material Steel Thickness 5/16" Tested by Hydraulic Pressure to 400 lb Material of Stays
 Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 2"
 Thickness 11 BWG Number 48 Elements Steam Dome or Collector:—Description of Joint to Shell None
 Percentage strength of Joint Diameter Thickness of shell plates Material
 Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell by Rules
 Crown or End Plates:—Material Thickness How stayed
 SUPERHEATER. Type None Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is easing gear fitted
 Is a drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes
 Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,

Manufacturer.

Dates of Survey During progress of work in shops -- Dec 8th 1936 Jan 4th 20th 1937 Is the approved plan of boiler forwarded herewith Yes
 while building During erection on board vessel --- Feb 5th 8th March 16th 30th Total No. of visits 8

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The above boiler has been built under Special Survey, and in accordance with the approved plans, the workmanship & materials are good. The boiler has been satisfactorily installed on board the vessel, tested by hydraulic pressure to 165 lb & safety valves adjusted under steam to 110 lb. In my opinion it is eligible to receive the notation of 1 WTDB 200 lb exhaust gas fired only.

Survey Fee Installation \$25.00 Sun Ship Bldg Co When applied for 20th April 1937

Travelling Expenses (if any) £ When received 10.6 1937

Fee charged at Cleveland

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK APR 28 1937

Assigned 1 WTDB (Upper) 200 lb Exhaust Gas Fired

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