

REPORT ON WATER TUBE BOILERS.

No. 37660.
(See Ph. Rpt. No. 7418)

Received at London Office

Date of writing Report 27th May 1937 When handed in at Local Office 27th May, 1937 Port of New York

No. in Reg. Bk. Survey held at Cartaret, N.J. Date, First Survey 2 April Last Survey 18 May 1937
on the M.V. (Sun S.B. Co. Hull 165) RHODE ISLAND. (Number of Visits 14) Tons { Gross 8862 Net 5070
Master - Built at Chester, Pa. By whom built Sun S.B. Co. When built 1937
Engines made at Chester, Pa. By whom made Sun S.B. Co. When made 1937
Boilers made at Cartaret, N.J. By whom made Foster Wheeler Corpn. (WHB90) When made 1937
Nominal Registered Horse Power 1197 Owners The Texas Company. Port belonging to

WATER TUBE BOILERS ~~MANUFACTURED FOR~~ **DONKEY**.—Manufacturers of Steel Lukens Steel Co.
Letter for Record S Date of Approval of plan 12/3/37 Number and Description or Type of Boilers One Water Tube (Exhaust Gas Fired) Working Pressure 227 lbs. Tested by Hydraulic Pressure to 454 lbs. Date of Test 18/5/37
No. of Certificate Can each boiler be worked separately Yes Total Heating Surface of Boilers 1872 sq. ft.
Is forced draught fitted No. Area of fire grate (coal) in each Boiler Motor Vessel Total grate area of boilers in vessel including Main and Auxiliary No. and type of burners (oil) in each boiler Exhaust Gas Fired No. and description of safety valves on each boiler Two Area of each valve 1.77 sq. in. Pressure to which they are adjusted 227 lbs.
Are they fitted with easing gear Yes 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 10'-11-3/4" Width and Length 5'-11-3/4" x 10'-11"
Steam Drums:—Number in each boiler One Inside diameter 30" Material of plates Steel Thickness 7/16"
Range of Tensile Strength 65000 - 75000 lbs. Are drum shell plates welded or flanged Fusion Welded Description of riveting:—
Cir. seams Fusion Welded g. seams Fusion Welded Diameter of rivet holes in long. seams Pitch of Rivets
Lap of plate or width of butt straps Butt Joint Thickness of straps Percentage strength of long. joint:—Plate 90% Rivet
Diameter of tube holes in drum 2-1/32" Pitch of tube holes 4-7/8" 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)
Distance apart Number and pitch of stays in each Working pressure
by rules Steam Drum Heads or Ends:—Material Steel Thickness Plain 9/16" Radius or how stayed 30" R.
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 None Thickness
Radius or how stayed Size of manhole or handhole Headers or Sections:—Number None
Material Thickness Tested by Hydraulic Pressure to Material of Stays
Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 2"
Thickness 120 Number 80 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

THIS DRUM IS NUMBERED WHB 90.

The foregoing is a correct description,

Dates of Survey { During progress of work in shops - - } Apr. 2, 5, 8, 12, 16, 19, 22, 26, 29
while building { During erection on board vessel - - } 1937 May 3, 6, 10, 14, 18 at New York
Is the approved plan of boiler forwarded herewith yes
Total No. of visits 14 at New York

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Fusion welded drum for the Exhaust Gas Fired Water Tube Donkey Boiler of this vessel has been built in accordance with the Rules and approved plans and the workmanship and material are good. For particulars of tests please see Special Report on Fusion Welded drum attached. The Drum has been forwarded to Danville, N.Y. to be fitted to the boiler and when this has been done in accordance with the Rules and to the satisfaction of the Surveyor, the boiler will be eligible, in my opinion, to receive the notation 1 W. T D B 227 lbs. Exhaust Gas Fired Only.

Survey Fee \$150.00 When applied for, Aug 18 1937 at Cleveland
Travelling Expenses (if any) \$5.00 When received, Jan 24 1938

John S. Heck

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JAN 26 1938

Assigned See Clv. Rpt. 856 & Phl. Rpt. 7418



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