

REPORT ON WATER TUBE BOILERS.

No. 856
(See Phil. Rpt. No. 7418)

Received at London Office

FEB -9 1938

of writing Report Aug. 18, 1937 When handed in at Local Office 19 Port of Cleveland, Ohio.

No. in Survey held at Dansville, New York. Date, First Survey _____ Last Survey August 4th, 1937.

eg. Bk. on the (Sun Shipbuilding & Dry Dock Company Hull No. 165) RHODE ISLAND Tons Gross 8562
Net 5070

ster Built at Chester, Pa. By whom built Sun S.B. & D.D. Co. When built 1937

ines made at Chester, Pa. By whom made Sun S.B. & D.D. Co. When made 1937

ilers made at Cartaret, N.J. By whom made Foster Wheeler Corp. When made 1937

ominal Dansville, N.Y. By whom made Foster Wheeler Corp. When made 1937

l Horse Power 1197 Owners The Texas Company Port belonging to _____

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

etter for Record S Date of Approval of plan 12/3/37 Number and Description or Type _____

Boilers One Watertube (Exhaust Gas fired only) Working Pressure 227# Tested by Hydraulic Pressure to 454# Date of Test 18/5/37

o. of Certificate _____ Can each boiler be worked separately Yes Total Heating Surface of Boilers 1872 sq.ft.

forced draught fitted No Area of fire grate (coal) in each Boiler Motor Vessel Total grate area of boilers in vessel including _____

ain and Auxiliary _____ No. and type of burners (oil) in each boiler Exhaust Gas fired only No and description of safety valves on _____

ch boiler Two Area of each valve 1.77 sq." Pressure to which they are adjusted 227#

re 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 1/2" x 10'11"

eam Drums:—Number in each boiler One Inside diameter 30" Material of plates Steel Thickness 7/16"

ange of Tensile Strength 65000 - 75000 # Are drum shell plates welded or flanged Fusion Welded Description of riveting:—

ir. seams Fusion Welded long. seams Fusion Welded Diameter of rivet holes in long. seams _____ Pitch of Rivets _____

ap of plate or width of butt strap Butt Joint 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 4-7/8" Percentage strength of shell in way of tubes 58.4%

f 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 _____

y rules _____ Steam Drum Heads or Ends:—Material Steel Thickness Plain 7/16 Radius or how stayed 30" R.

ize 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 _____

r flanged _____ Description of riveting:—Cir. seams _____ long. seams _____ Diameter of Rivet Holes in _____

ong. 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 _____

y Rules _____ Crown or End Plates:—Material _____ Thickness _____ How stayed _____

UPERHEATER. 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,

THIS DRUM IS NUMBERED WHB 90 Manufacturer. _____

Dates of Survey } During progress of August 4th, 1937, Dansville, N.Y. Is the approved plan of boiler forwarded herewith Yes

while building } During erection on board vessel - - - Total No. of visits One at Dansville, N.Y.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The subject boiler has been built under

Special Survey, in accordance with the Rules and approved plans, and the workmanship and materials

are good. The steam drum was built at Cartaret, N.J. and was shipped to Dansville, N.Y. to be

fitted to the heating unit. The completed boiler was examined and tested to 454 pounds per square

inch hydraulic pressure, with satisfactory results. In my opinion, it is eligible to receive the

notation 1 WTDB 227 lbs. Exhaust Gas Fired Only.

Survey Fee Civ. 9/15/37 - \$150.00 When applied for, Aug. 18th 1937
Travelling Expenses (if any) NY Civ. 28.00 When received, Jan. 21 1938.

E. Drummond
Engineer Surveyor to Lloyd's Register of Shipping.

NEW YORK JAN 26 1938

Committee's Minute _____

Assigned See Phil Rpt. 7418



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