

REPORT ON WATER TUBE BOILERS.

No. 37658

Received at London Office

Date of writing Report 27 May 1937 When handed in at Local Office 27 May 1937 Port of New YorkNo. in Survey held at Cantaret N.J. Date, First Survey 2 April Last Survey 18 May 1937
Reg. Bk. on the M.V. (SUN S. B. Co. Hull 163) (Number of Visits 14) Tons { Gross
NetMaster ✓ 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 CANTARET N.J. By whom made Foster Wheeler Corp. (WHB88) When made 1937
DANVILLE N.Y.
Nominal Horse Power 1197 Owners The Texas Co. Port belonging toWATER TUBE BOILERS ~~MAIN, AUXILIARY, OR~~ 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 ONLY) Working Pressure 227 LBS Tested by Hydraulic Pressure to 285 Date of Test 18/5/37No. of Certificate Can each boiler be worked separately YES Total Heating Surface of Boiler 1872 sq ftIs 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 ONLY 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 LBSAre they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter the donkey boilerSmallest distance between boilers or uptakes and bunkers or woodwork Height of Boiler 10'-11 3/4" Width and Length 5'-11 1/4" x 10'-11"Steam Drums:—Number in each boiler ONE Inside diameter 30" Material of plates STEEL Thickness 3/16"Range of Tensile Strength 65000-75000 LBS 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 BUTT JOINT Thickness of straps ✓ Percentage strength of long. joint:—Plate 90% ALLOWED Rivet ✓Diameter of tube holes in drum 2 1/2" Pitch of tube holes 4 3/8" 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 pressureby rules ✓ Steam Drum Heads or Ends:—Material STEEL Thickness MAN 3/16 PLAIN 3/16 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 weldedor flanged ✓ Description of riveting:—Cir. seams ✓ long. seams ✓ Diameter of Rivet Holes inlong. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓ Thickness of strapsPercentage strength of long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum ✓ Pitch of tube holesPercentage 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 NONEMaterial ✓ 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 NONEPercentage strength of joint ✓ Diameter ✓ Thickness of shell plates ✓ MaterialDescription of longitudinal joint ✓ Diameter of Rivet Holes ✓ Pitch of Rivets ✓ Working Pressure of shellby Rules ✓ Crown or End Plates:—Material ✓ Thickness ✓ How stayed ✓SUPERHEATER. Type NONE Date of Approval of Plan ✓ Tested by Hydraulic Pressure toDate 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 88.

The foregoing is a correct description,

Dates of Survey 1937 During progress of work in shops APR 2, 5, 8, 12, 14, 19, 22, 24, 29 at New York
 while building ✓ During erection on board vessel ✓ MAY 3, 6, 10, 14, 18.
 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 & approved plans & the
workmanship & 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 & when this has been done in accordance with the Rules & to
the satisfaction of the Surveyor, the boiler will be eligible, in my opinion, to receive the notation 1 WTDB 227 LBS
EXHAUST GAS FIRED ONLY.

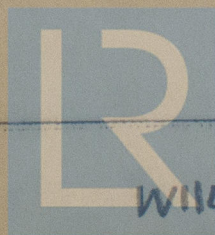
Survey Fee (50% CLEVE.) \$ 150.00 When applied for, CHARGEABLE 10
 Travelling Expenses (if any) £ \$: 5.00 When received, AT CLEVELAND 10 See blv
Apr

John S. Heck

Engineer Surveyor to Lloyd's Register of Shipping.

NEW YORK AUG 25 1937

Committee's Minute

Assigned See attached Report Phil. No 7314

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W1147-0030