

REPORT ON WATER TUBE BOILERS.

Date of writing Report Oct 1st 1920 When handed in at Local Office Oct 2nd 1920 Received at London Office TUE NOV 2 1920 Port of New York

No. in Reg. Bk. Survey held at New London Conn. Date, First Survey 191 Last Survey 191
on the Water tube boilers for the S/S "Provincetown" Number of Visits 1 Gross Tons 1920-9 Net Tons 1920-9
Master Stafford Built at Groton Conn. By whom built Groton Iron Works When built 1920-9
Engines made at Proctor N.J. By whom made W.A. Fletcher Company When made 1920-9
Boilers made at Phoenixville Pa. By whom made Heise Saffli Boiler Company When made 1920-9
Registered Horse Power 654.7 Owners U.S. Shipping Board Port belonging to Groton Conn.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Midvale Steel & Ordnance Co.

(Letter for Record 2) Date of Approval of plan 2/7/20 Number and Description of Type of Boilers 3, Water tube Working Pressure 225 Tested by Hydraulic Pressure to 450 Date of Test 2/7/20
No. of Certificate 1 Can each boiler be worked separately Yes Total Heating Surface of Boilers 9510 sq ft
Is forced draught fitted Induced Area of fire grate (coal) in each Boiler 102 sq ft Total grate area of boilers in vessel including Main and Auxiliary 306 sq ft No. and type of burners (oil) in each boiler 4, White No. and description of safety valves on each boiler 2, Spring loaded Area of each valve 9.62 sq in Pressure to which they are adjusted 195 lbs.
Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 3-0 Height of Boiler 11-4 3/4 Width and Length 10-0 1/2 x 13-7 1/2
Steam Drums:—Number in each boiler One Inside diameter 42 Material of plates Steel Thickness 7/32
Range of Tensile Strength 58000 lbs. Are drum shell plates welded or flanged No. Description of riveting:—
Cir. seams S.R. LAP long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 5/16 Pitch of Rivets 3 1/2
Joint of plates: width of butt straps 16 9/16 1/2 Thickness of straps 7/32 Percentage strength of long. joint:—Plate 73.2 Rivet 110
Diameter of tube holes in drum 3 1/2 Pitch of tube holes 7 Percentage strength of shell in way of tubes 49.5
If Drum has a flat side state method of staying Yes Depth and thickness of girders at centre (if fitted) Yes Distance apart Yes Number and pitch of stays in each Yes Working pressure by rules 389 lbs. Steam Drum Heads or Ends:—Material Steel Thickness 5/8 Radius or how stayed 42
Size of Manhole Handhole 15" x 11" Water Drums:—Number in each boiler None Inside Diameter None
Material of plates Steel Thickness 7/32 Range of tensile strength 58000 Are drum shell plates welded or flanged Yes Description of riveting:—Cir. seams Yes long. seams Yes Diameter of Rivet Holes in long. seams 5/16 Pitch of rivets 3 1/2 Lap of plates or width of butt straps 16 9/16 1/2 Thickness of straps 7/32
Percentage strength of long. joint:—Plate 73.2 Rivet 110 Diameter of tube holes in drum 3 1/2 Pitch of tube holes 7
Percentage strength of drum shell in way of tubes 49.5 Water Drum Heads or Ends:—Material None Thickness None
Radius or how stayed None Size of manhole or handhole 15" x 11" Headers or Sections:—Number 2 Material of Stays Iron
Material Steel Thickness 7/32 Tested by Hydraulic Pressure to 450 lbs. Working Pressure by Rules 335 lbs. Tubes:—Diameter 3 1/2
Area at smallest part 1.47 sq ft Area supported by each stay 33 sq in Steam Dome or Collector:—Description of Joint to Shell Yes
Thickness 7/32 Number 798 in all Percentage strength of Joint Yes Diameter Yes Thickness of shell plates Yes Material Yes
Description of longitudinal joint Yes Diameter of Rivet Holes Yes Pitch of Rivets Yes Working Pressure of shell by Rules Yes Crown or End Plates:—Material Yes Thickness Yes How stayed Yes

SUPERHEATER Type Heise Date of Approval of Plan 2/7/20 Tested by Hydraulic Pressure to 450 lbs.
Date of Test 2/7/20 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes
Diameter of Safety Valve 1 1/2 Pressure to which each is adjusted 205 lbs. Is easing gear fitted Yes
Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 52, 1 1/2, No gauge.
Spare Gear. Tubes 20 Gaskets or joints:—Minhole None Handhole None Handhole plates None

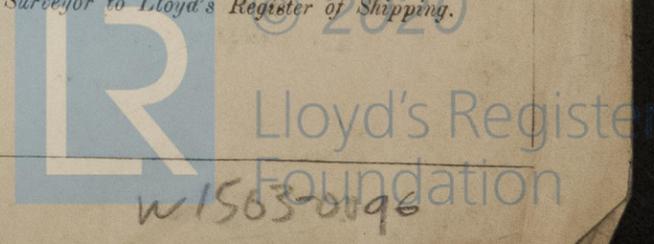
The foregoing is a correct description, Manufacturer.

Dates of Survey During progress of work in shops - - - while During erection on board vessel - - - Is the approved plan of boiler forwarded herewith No. Total No. of visits 1

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers and Superheater have been constructed under the Survey of the American Bureau of Shipping and are now efficiently secured in place. They were tested by hydraulic pressure in my presence and found tight & sound. Mounting fitted & safety valves adjusted under steam.

Survey Fee ... £ : : } When applied for, 191
Travelling Expenses (if any) £ : : } When received, 191
G. Hudson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minutes New York OCT 19 1920
Assigned See N.Y. Rpt No 19252



Is a Report also sent in the Hull of the Ship? If not, state whether, and when, one will be sent?