

REPORT ON WATER TUBE BOILERS.

No. 5002.

Received at London Office

19 MAR 1937

Date of writing Report Feb. 25th 1937 When handed in at Local Office Feb. 26th 1937 Port of Newport News, Va.
No. in Survey held Little Creek Harbor N. H. Date, First Survey Oct. 30th 1936 Last Survey Feb. 1st 1937
Reg. Bk. 57487 on the boilers for the S. S. Buell of the Daniel Webster
Master Built at Gloucester City, N. J. By whom built Lewis & Jones Co
Engines made at Schenectady, N. Y. By whom made General Electric Company
Boilers made at Bayonne, N. J. By whom made The Babcock & Wilcox Co
Registered Horse Power Owners National Bulk Carriers, Inc. Port belonging to New York
When built 1919.
When made 1919.
When made 1929.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY—Manufacturers of Steel North Steel & Claydon, Del.
Letter for Record S. Date of Approval of plan Sept. 8, 1936. Number and Description or Type
Boilers 2 B.W. Water-tube boilers. Working Pressure 250. Tested by Hydraulic Pressure to 375. Date of Test 12.2.36.
of Certificate Can each boiler be worked separately YES. Total Heating Surface of Boilers 10080 sq. ft.
forced draught fitted INDUCED. Area of fire grate (coal) in each Boiler 7 sq. ft. 2 Port. Total grate area of boilers in vessel including
Main and Auxiliary No. and type of burners (oil) in each boiler 2. Spring loaded Ashlon. No. and description of safety valves on
each boiler 2. Spring loaded Ashlon. Area of each valve 15.90 sq. in. Pressure to which they are adjusted 250 lbs.
Are they fitted with easing gear YES. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler 14.5 x 21.2 x 5.
Smallest distance between boilers or uptakes and bunkers or woodwork 16.0" Height of Boiler Width and Length 14.5 x 10.2 x 7.
Steam Drums:—Number in each boiler One. Inside diameter 41 5/8" Material of plates STEEL Thickness 23/32".
Range of Tensile Strength 60000 lbs per sq. in. Are drum shell plates welded or flanged No. Description of riveting:—
Cir. seams D.R.L.A.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 29/32. Pitch of Rivets 2 1/4"
Lap of plates or width of butt straps 2 1/2" 9/13 7/8 Thickness of straps 3/4" Percentage strength of long. joint:—Plate 79.86. Rivet 104.6.
Diameter of tube holes in drum 4" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.85.
If Drum has a flat side state method of staying Distance apart Number and pitch of stays in each Working pressure
(if fitted) 376 lbs. Steam Drum Heads or Ends:—Material Steel. Thickness 29/32. Radius or how stayed 11/16" Dia. Pass.
Size of Manhole or Handhole 16" x 12" Water Drums:—Number in each boiler Are drum shell plates welded
Material of plates Thickness Range of tensile strength Diameter of Rivet Holes in
or flanged Description of riveting:—Cir. seams long. seams Thickness of straps
long. seams Pitch of rivets Lap of plates or width of butt straps Pitch of tube holes
Percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum
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 32. B.R. 13 Port B.R.
Material Steel Thickness 5/8" Tested by Hydraulic Pressure to 375 lbs. Material of Stays NOT FITTED.
Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 4" 9/2".
Thickness 257.125. Number Steam Dome or Collector:—Description of Joint to Shell Material
Percentage strength of joint Diameter Thickness of shell plates Working Pressure of shell
Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets How stayed
by Rules Crown or End Plates:—Material Thickness How stayed

SUPERHEATER. Type B.W. Date of Approval of Plan Sept. 8, 1936 Tested by Hydraulic Pressure to 375 lbs. per sq. in. YES.
Date of Test Dec. 13, 1936 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 250 lbs. per sq. in. Is easing gear fitted YES.
Is a drain cock or valve fitted at lowest point of superheater YES. Number, diameter, and thickness of tubes 108. 1 1/4" dia. N° 11 B.W.
Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates
Superheater fitted to the Stearns Boiler only. The foregoing is a correct description, Manufacturer.

Is the approved plan of boiler forwarded herewith YES.
Dates of Survey During progress of work in shops - - - Boilers already built & fitted on board. Total No. of visits 10.
while building During erection on board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers were built in 1929 to the
Rules of the U.S. Steamboat Inspection Service and the American Bureau of Shipping for a
working pressure of 300 lbs per sq. in. They were fitted on board the S. S. Morro Castle. They have been examined
internally & externally - scumming checked with plans I found to agree with the plans supplied. They were
tested by hydraulic pressure to 375 lbs per sq. in. I found tight & sound workmanship good.

Survey Fee ... £ : : When applied for, 19
Travelling Expenses (if any) £ : : When received, 19
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK MAR 10 1937
Assigned 2 WTB- 250 lbs
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