

REPORT ON WATER TUBE BOILERS.

No. 16350
3518

Received at London Office

of writing Report *Nov 4* 1919 When handed in at Local Office 191 Port of *New York*
 Date, First Survey *Feb 24* Last Survey *Nov 6* 1919
 Survey held at *Bayonne N.J.* Number of Visits *31* Gross *8289.21*
 on the *S/S "Daniel Webster"* Tons Net *6447-0*
 Built at *Gloucester N.J.* By whom built *Piper & Jones Co Ltd* When built *1919*
 By whom made *General Electric Co* When made *1919*
 By whom made *Babcock & Wilcox Co* When made *1919*
 Owners *U.S. Shipping Board* Port belonging to *General City & J*
 Manufacturers of Steel *Central Iron & Steel Co*

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel
 Date of Approval of plan *July 12, 1917* Number and Description or Type
 Working Pressure *200 lbs* Tested by Hydraulic Pressure to *400 lbs* Date of Test
 Boilers *3 Water tube* Total Heating Surface of Boilers *8706 sq ft*
 Can each boiler be worked separately
 Area of fire grate (coal) in each Boiler *87.5 sq ft* Total grate area of boilers in vessel including
 No. and type of burners (oil) in each boiler *7 1/2* No. and description of safety valves on
 Area of each valve
 In case of donkey boilers state whether steam from main boilers can enter the donkey boiler
 Height of Boiler *12'-10"* Width and Length *14'-7 1/2" x 11'-7 1/2"*
 Thickness *1/2"*
 Inside diameter *42"* Material of plates *Steel*
 Are drum shell plates welded or flanged? *No* Description of riveting:
 Pitch of Rivets *2 3/32" x 4 9/16"*
 Diameter of rivet holes in long. seams *29/32"* Plate *80-1* Rivet *108*
 Percentage strength of long. joint:—Plate *80-1* Rivet *108*
 Thickness of straps *9/16"* Percentage strength of shell in way of tubes *84-8*
 Pitch of tube holes *7"* Depth and thickness of girders at centre
 Working pressure
 Number and pitch of stays in each
 Radius *on how stayed* *42"*
 Thickness *19/32"* Inside Diameter
 Range of tensile strength
 Are drum shell plates welded
 Diameter of Rivet Holes in
 Description of riveting:—Cir. seams
 long. seams
 Diameter of Rivet Holes in
 Thickness of straps
 Pitch of tube holes
 Diameter of tube holes in drum
 Water Drum Heads or Ends:—Material
 Thickness
 Headers or Sections:—Number *24*
 Material of Stays
 Tested by Hydraulic Pressure to *500 lbs*
 Working Pressure by Rules *289 lbs* Tubes:—Diameter *4"*
 Area supported by each stay
 Steam Dome or Collector:—Description of Joint to Shell
 Thickness of shell plates
 Material
 Diameter of Rivet Holes
 Pitch of Rivets
 Working Pressure of shell
 Thickness
 How stayed

PERHEATER. Type
 Date of Approval of Plan
 Tested by Hydraulic Pressure to
 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler
 Pressure to which each is adjusted
 Is easing gear fitted
 Diameter of Safety Valve
 Number, diameter, and thickness of tubes
 Is a drain cock or valve fitted at lowest point of superheater
 Handhole plates
 Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,
 The Babcock & Wilcox Co
 per *W. Stubbard* *Maurice West* Manufacturer.

Dates of Survey while building
 During progress of work in shops
 During erection on board vessel
 1919. Feb. 16, 17, 18, 19 & daily until April 23, 19. Is the approved plan of boiler forwarded herewith
 Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The Material & Workmanship are both of good quality. To complete the Survey, boilers to be re-erected on board and tested by hydraulic pressure. All mounting to be examined & fitted. Safety valves to be adjusted under steam. Boilers now erected on board. Mountings examined and fitted. Hydrostatic test of 410 lbs applied and Safety Valves adjusted to 210 lbs.

Survey Fee ... £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191
 (Signed) *A. Mac Vrats*, J. Adams & Co
 Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute *New York NOV 25 1919*
 Assigned *See Phil Rpt 3518*

