

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 17007
TUE. APR. 6 1920

Received at London Office
Date of writing Report July 9th 1919 When handed in at Local Office 1919 Port of New York
No. in Survey held at Bayonne N.J. Date, First Survey 12 Apr Last Survey May 28th 1919
Reg. Bk. on the Water Tube Boiler for the Texas Co. No. 7-21. SS Roanoke Number of Visits Gross Tons Net Tons
Master Built at By whom built When built
Engines made at By whom made When made
Boilers made at Bayonne N.J. By whom made Babcock & Wilcox Co. When made 1919.
Registered Horse Power Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY—Manufacturers of Steel Lukens Steel & Iron Co.
Letter for Record 3) Date of Approval of plan May 29 1919 Number and Description or Type
of Boilers 3 Water Tube Working Pressure 200 Tested by Hydraulic Pressure to 400 Date of Test
No. of Certificate Can each boiler be worked separately Total Heating Surface of Boilers 9969 sq. ft.
Is forced draught fitted Area of fire grate (coal) in each Boiler 87.5 sq. ft. Total grate area of boilers in vessel including
Main and Auxiliary No. and type of burners (oil) in each boiler 3 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
Are they fitted with easing gear 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 16' 1" Width and Length 14' 6" x 10' 0"
Steam Drums:—Number in each boiler 6 Inside diameter 42" Material of plates Steel Thickness 1/2"
Range of Tensile Strength 55/65,000 lb. 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 29/32" Pitch of Rivets 2 1/4" x 1 1/4"
width of butt straps 9 1/2" x 15" Thickness of straps 9/16" Percentage strength of long. joint:—Plate 80.1 Ricet 108
Diameter of tube holes in drum 2 1/2" Pitch of tube holes 7" Percentage strength of shell in way of tubes 84.8
If Drum has a flat side state method of staying Depth and thickness of girders at centre
if fitted Distance apart Number and pitch of stays in each Working pressure
by rules 243 lb. Steam Drum Heads or Ends:—Material Steel Thickness 1 1/2" Radius or how stayed 42"
Size of Manhole or Handhole 15" x 11" Water Drums:—Number in each boiler Inside Diameter
Do. 7-10-18 Material of plates Thickness Range of tensile strength Are drum shell plates welded
Do. or flanged Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in
long. seams Pitch of rivets Lap of plates or width of butt straps Thickness of straps
Percentage strength of long. joint:—Plate Ricet 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 Thickness
Radius or how stayed Size of manhole or handhole Headed on Sections:—Number 24 per boiler
Material Steel Thickness 9/16 Tested by Hydraulic Pressure to 500 lb. Material of Stays
Area at smallest part Area supported by each stay Working Pressure by Rules 289 lb. Tubes:—Diameter 4"
Thickness 11.8 B.W.G. Number 336 per boiler Steam Dome or Collector:—Description of Joint to Shell
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
by Rules Crown or End Plates:—Material Thickness How stayed
SUPERHEATER. Type 39 1/2" tube Date of Approval of Plan 29/5/19 Tested by Hydraulic Pressure to 600 lb.
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 1 1/2" Pressure to which each is adjusted Is easing gear fitted Yes
Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 6 tubes, 2 dia. 11.8 B.W.G.
Easing Gear. Tubes 1 1/2" - 4" Gaskets or joints:—Manhole Handhole 30 Handhole plates 14.

The foregoing is a correct description,
The Babcock & Wilcox Co. Manufacturer.
J. A. Daniel

Dates During progress of work in shops - - - 1918 Apr 1, 2, 4, 5, 7, 9, 10 & days until 28 May Is the approved plan of boiler forwarded herewith No. Relating for duplicates.
while During erection on board vessel - - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under
local Survey and in accordance with the Rules & approved plans. The materials & workmanship
are good & efficient. To complete the Survey, the boilers to be re-erected on board, tested by hydraulic
pressure, manholes to be fitted & safety valves adjusted under steam.

Survey Fee ... £ 5 one
Travelling Expenses (if any) £ 10 n/yr
When applied for, 191
When received, 191
J. A. Hudson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned