

REPORT ON WATER TUBE BOILERS.

No. 64433

Received at London Office

-3 OCT 1941

of writing Report 11th Sept 1941 When handed in at Local Office 26th Sept 1941 Port of Glasgow

No. in Survey held at Renfrew & Glasgow Date, First Survey 16.5.41 Last Survey 20th Sept 1941

eg. Bk. 305 on the Three new boiler for S.S. EMPIRE TARPON (Number of Visits 25) Tons { Gross 6085 Net 3448

aster Built at Groton Conn. By whom built Groton Iron Works When built 1920-12th mil

gines made at Jersey City By whom made Vulcan Iron Works When made 1920

ilers made at Renfrew By whom made Babcock & Wilcox Ltd (B/L 6/1458) When made 1941-9th mil

egistered Horse Power Owners Ministry of War Transport Port belonging to London

WATER TUBE BOILERS—MAIN, ~~AUXILIARY, OR DONKEY~~. Manufacturers of Steel Babcock Ltd

etter for Record W.T. Date of Approval of plan 21-5-41, 4-6-41 Number and Description or Type

Boilers 3- Babcock & Wilcox Ltd (16 mil) Working Pressure 225 lbs Tested by Hydraulic Pressure to 384 lbs Date of Test 12-15-19/41

of Certificate 20821-20822-20823 Can each boiler be worked separately Yes Total Heating Surface of Boilers 9960 sq ft

forced draught fitted Induced Draught Area of fire grate (coal) in each Boiler oil fired Total grate area of boilers in vessel including

ain and Auxiliary ✓ No. and type of burners (oil) in each boiler 4 No. and description of safety valves on

ch boiler One-3¹/₂" Double Spring loaded Area of each valve 9.62 sq in Pressure to which they are adjusted 225 lbs

re they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler ✓

allest distance between boilers or uptakes and bunkers or woodwork well clear Height of Boiler 15' 4³/₄" Width and Length 13' 0" x 15' 0" (approx)

eam Drums:—Number in each boiler One Inside diameter 3' 6" Material of plates Steel Thickness 1¹/₁₆"

ange of Tensile Strength 28/32 lbs Are drum shell plates welded or flanged long seams actually welded at ends (approx) Description of riveting:—

r. seams D.R. Lap long. seams D.R. D.B.S. Diameter of rivet holes in long. seams 1²³/₆₄" Pitch of Rivets 5' 128"

of plate or width of butt straps 14¹/₁₆" Thickness of straps 13¹/₁₆" Percentage strength of long. joint:—Plate 73.49 Rivet 78.48

iameter of tube holes in drum 4.056 Pitch of tube holes 4" Percentage strength of shell in way of tubes 42%

Drum has a flat side state method of staying ✓ Depth and thickness of girders at centre

fitted) ✓ Distance apart ✓ Number and pitch of stays in each ✓ Working pressure

rules ✓ Steam Drum Heads or Ends:—Material Steel Thickness 7/8" Radius or how stayed 3' 0"

ce of Manhole or Handhole 15" x 11" Man Drums:—Number in each boiler one Inside Diameter 6 x 6"

aterial of plates S.D. Steel Thickness 3/4" Range of tensile strength 28/32 lbs Are drum shell plates welded

flanged ✓ Description of riveting:—Cir. seams ✓ long. seams ✓ Diameter of Rivet Holes in

g. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓ Thickness of straps ✓

centage strength of long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum 4.056 Pitch of tube holes 4"

centage strength of drum shell in way of tubes 42% Water Drum Heads or Ends:—Material ✓ Thickness ✓

dus or how stayed ✓ Size of manhole or handhole ✓ Headers or Sections:—Number 16 each boiler

aterial S.D. Steel Thickness 1¹/₁₆" at tube ends Tested by Hydraulic Pressure to 384 lbs Material of Stays ✓

ea at smallest part ✓ Area supported by each stay ✓ Working Pressure by Rules at 225 lbs Tubes:—Diameter 1¹³/₁₆" 0 + 4"

ickness 9 u.g. 8 u.g. 4" Number 554 @ 1¹³/₁₆" 0 48 @ 4" Steam Dome or Collector:—Description of Joint to Shell ✓

centage strength of Joint ✓ Diameter ✓ Thickness of shell plates ✓ Material ✓

scription of longitudinal joint ✓ Diameter of Rivet Holes ✓ Pitch of Rivets ✓ Working Pressure of shell

Rules ✓ Crown or End Plates:—Material ✓ Thickness ✓ How stayed ✓

PERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓

te of Test ✓ Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler ✓

imeter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is easing gear fitted ✓

a drain cock or valve fitted at lowest point of superheater ✓ Number, diameter, and thickness of tubes ✓

are Gear. Tubes 8-4⁰/₁₆" Gaskets or joints:—Manhole 6 Handhole 500-4¹/₁₆" Handhole plates 14-4¹/₁₆"

14-1¹/₁₆" 2-4⁰/₁₆" (return) 12-3³/₄" dia 1-3³/₄" dia

The foregoing is a correct description,
Babcock & Wilcox, Ltd.
J. W. Pollock per. Sec Manufacturer.

Dates { During progress of 1941 May: 16 22 June: 3.10.13.17.19.20 July Is the approved plan of boiler forwarded herewith

Survey { work in shops - - } 7.8.10.17.18.21.22.31 Aug: 6.7.12.15.19.29 Total No. of visits 25

hile { During erection on } 30 Sep: 3.20

lding { board vessel - - }

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under Special Survey in accordance with the Society's Rules & approved plans. The materials & workmanship are good. The boilers have been satisfactorily erected on board, tested under hydraulic pressure (as stated above) and safety valves adjusted under steam.

Survey Fee £ 45 : 14 : - } When applied for, MONTHLY ACCOUNT

Travelling Expenses (if any) £ : : } When received, 19

Committee's Minute GLASGOW 1 OCT 1941

Signed S. H. G. 64432 G. L. Murdoch
Engineer Surveyor to Lloyd's Register of Shipping.

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