

REPORT ON WATER TUBE BOILERS.

No. 9141

21 AUG 1950

Received at London Office

19th June 50 When handed in at Local Office 19th June 50 Port of Baltimore, Maryland
of writing Report 19th June 50 Survey held at Baltimore, Maryland Date, First Survey 24th April Last Survey 5th May 19 50
No. in Survey held at Baltimore, Maryland Date, First Survey 24th April Last Survey 5th May 19 50
Bk. on the S.S. "IMPERIAL ALBERTA" (Number of Visits 5) Tons { Gross 17883 Net 10918
at Chester, Pa. By whom built Sun S.B. & Drydock Co. When built 1949
ines made at Lynn, Mass. By whom made General Electric Co. When made 1949
ers made at Barberton, Ohio By whom made Babcock & Wilcox When made 1949
ninal Horse Power 12,500 Owners Imperial Oil Company Port belonging to Halifax, N.S.

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Lukens Steel Co.

Sept. 14, 1949.

Boilers two drum 'D' Type (Unassembled) Working Pressure 965# Tested by Hydraulic Pressure to 1448 Date of Test 10-21-49

of Certificate P.1457-S.1456 Can each boiler be worked separately Yes Total Heating Surface of Boilers 7882 sq. ft.

forced draught fitted Yes Area of fire grate (coal) in each Boiler Four B & W

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

boiler 2-2" and 1-2" Supt. Area of each set of valves per boiler { per rule 3. 1416 sq. inches as fitted Pressure to which they

adjusted 965 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter

ature donkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork 2' - 3" Height of boiler 20' - 9 1/4"

lth and Length 20' - 0" x 15' - 11 - 7/8" Steam Drums:—Number in each boiler One (1) Inside diameter 47 - 3/8"

ckness of plates Wrapper 1 - 11/16" Range of Tensile Strength 70,000 min. Are drum shell plates welded

anged Welded Tube 4 - 3/8" Babcock & Wilcox Co. Have all the requirements of the rules

Class I vessels been complied with American Bureau of Shipping Description of riveting:—Cir. seams long. seams

meter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of

joint:—Plate Wrapper 90% Rivet Diameter of tube holes in drum 1.275" - 3.275" Pitch of tube holes 1 - 7/8" - 3" - 4"

centage strength of shell in way of tubes 32% 23 - 11/16" Steam Drum Heads or Ends:—Range of tensile strength 70,000 min.

ckness of plates Manhead 2 - 9/16" Radius or how stayed radius 22 - 11/32" Size of manhole or handhole 12" x 16" Water Drums:—Number

each boiler One Blankhead 1 - 11/16" Thickness of plates wrapper 1 - 11/16" Range of tensile strength 70,000 min. Are drum shell plates

led or flanged welded If fusion welded, state name of welding firm Babcock & Wilcox Have all the requirements of the rules

Class I vessels been complied with American Bureau of Shipping Description of riveting:—Cir. seams long. seam

meter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of

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

centage strength of drum shell in way of tubes Water Drum Heads or Ends:—Range of Tensile strength 70,000 min.

ckness of plates Manhead 1 - 5/8" Radius or how stayed radius 15" - 14 - 5/32" Size of manhole or handhole 12" x 16"

iders or Sections:—Number 3 1 Upper R.W. Material Thickness Tested by Hydraulic Pressure to

es:—Diameter 2" Thickness .165 Number 63 Steam Dome or Collector:—Description of

t to Shell Inside diameter Thickness of shell plates Range of tensile

ngth Description of longitudinal joint If fusion welded, state name of welding

Have all the requirements of the rules for Class I vessels been complied with Diameter of rivet holes

h of rivets Thickness of straps Percentage strength of long. Joint Plate Rivet

wn or End Plates:—Range of tensile strength Thickness Radius or how stayed

PERHEATER. Drums or Headers:—Number in each boiler 4. Inside Diameter 6 3/4"

ckness 1 1/4" Material Chrome moles Range of tensile strength 60,000 min. Are drum shell plates welded

anged seamless If fusion welded, state name of welding firm Have all the requirements of the rules

Class I vessels been complied with American Bureau of Shipping Description of riveting:—Cir. seams long. seams

meter of rivet holes in long. seams Pitch of rivets Header Thickness of straps Percentage strength of

joint:—Plate Rivet Diameter of tube holes in 1.275" Pitch of tube holes 1 - 7/8" Percentage strength of

a shell in way of tubes 32% Drum Heads or Ends:—Classed by hot working process. Thickness 1 1/4" Range of tensile strength 60,000 min.

us or how stayed Size of manhole or handhole 32" x 3 - 3/8" Number, diameter, and thickness of tubes 182 - 1 - 1 1/4" - 134"

ed by Hydraulic Pressure to 2500# Date of Test Is a safety valve fitted to each section of the superheater which

be shut off from the boiler Yes No. and description of Safety Valves 1 - 2 1/2" Area of each set

alves 4.9087 Pressure to which they are adjusted 897# Is easing gear fitted Yes

re Gear. Has the spare gear required by the rules been supplied American Bureau of Shipping and U.S.C.G.

H.S. 4h = 5970 yfr Total H.S. for Reg. Bk. = 14877 yfr

—CPI = 1025

—Bm = 887

The foregoing is a correct description,

Manufacturer.

Is the approved plan of boiler forwarded herewith
Total No. of visits

is boiler a duplicate of a previous case Yes If so, state vessel's name and report No. S.S. KUWAIT

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been satisfactorily installed

under Special Survey of the American Bureau of Shipping and U.S.C.G. on board the vessel, tested to a hydrostatic

pressure of 1448 lbs. and found sound and tight. Safety valves adjusted under steam to 965 lbs. on the boilers and

897 lbs. on the Spts. In my opinion the installation is entitled to receive the notation of 2 WTb (Spt).

Survey Fee £ See: When applied for 19

Travelling Expenses (if any) £ Reps: 9: When received, 19

Committee's Minute NEW YORK AUG 2 - 1950

igned

Engineer (Surveyor to Lloyd's Register of Shipping.

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