

REPORT ON WATER TUBE BOILERS.

No. 9141

21 AUG 1950

Received at London Office

19th June 1950 When handed in at Local Office 19th June 1950 Port of Baltimore, Maryland

of writing Report Survey held at Baltimore, Maryland Date, First Survey 24th April Last Survey 5th May 1950

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

inal Horse Power 12,500 Owners Imperial Oil Company Port belonging to Halifax, N.S.

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

of Approval of plan Sept. 14, 1948. Number and Description, or Type 10-21-48

Boilers two drum 'D' Type (Unassembled) Working Pressure 965# Tested by Hydraulic Pressure to 1448 Date of Test 10-12-48

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 No. and description of safety valves on

and type of burners (oil) in each boiler 2-2" and 1-2" Supt. Area of each set of valves per boiler { per rule - as fitted 3.1416 sq. inches Pressure to which they

boiler 2-2" and 1-2" Supt. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter

adjusted 965 Smallest distance between boilers or uptakes and bunkers or woodwork 2' - 3" Height of boiler 20' - 9 1/4"

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

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

ckness of plates 4 - 3/8" Babcock & Wilcox Co. Have all the requirements of the rules

anged Welded Tube 4 - 3/8" If fusion welded, state name of welding firm American Bureau of Shipping Description of riveting:—Cir. seams - long. seams -

Class I vessels been complied with American Bureau of Shipping and U.S.C.G. Pitch of rivets - Thickness of straps - Percentage strength of

meter of rivet holes in long. seams Wrapper 90% Rivet - Diameter of tube holes in drum 1.275" - 3.275" Pitch of tube holes 1 - 7/8" - 3" - 4"

7. joint:—Plate 32% Radius or how stayed 22 - 11/32" Size of manhole or handhole 12" x 16" Water Drums:—Number

entage strength of shell in way of tubes Manhead 2 - 9/16" Thickness of plates wrapper 1 - 11/16" Range of tensile strength 70,000 min. Are drum shell plates

ckness of plates Blankhead 1 - 11/16" Material - Thickness - Tested by Hydraulic Pressure to -

ach boiler One Inside Diameter 30" Thickness of plates wrapper 1 - 11/16" Range of tensile strength 70,000 min. Are drum shell plates

ded 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 and U.S.C.G. Description of riveting:—Cir. seams - long. seam -

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

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

entage 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 Carbon steel 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 and U.S.C.G. Description of riveting:—Cir. seams - long. seams -

meter of rivet holes in long. seams 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

2 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 3 1/2" x 3 - 5/8" Number, diameter, and thickness of tubes 182 - 1 - 1 1/4" - 1 3/4"

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 mfr
Total H.S. for Reg. Bk = 14877 mfr
- 1025 -
- 887 -*

The foregoing is a correct description,

Manufacturer.

ates } During progress of } Is the approved plan of boiler forwarded herewith }
urvey } work in shops - - }
hile } During erection on }
ding } board vessel - - - }

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 WTBS (Spt).

Survey Fee £ See: : When applied for - 19

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

Committee's Minute NEW YORK AUG 2 - 1950

igned 2 WTBS - 465 lbs



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