pt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 126100

Received at London Office 22 OCT 1944

of writing Report 11 . 10 . 1944 When handed in at Local Office 19 Port of Liverpool

No. in Survey held at Birkenhead Date, First Survey Last Survey 19

g. Bk. 392 on the T.E.S. "THEWIDOMUS" (Number of Visits) Tons Gross 10448 Net 6301

ilt at Portland, Oregon By whom built Kaiser Co. Inc. When built 1944 . 4.

gines made at Lynn. Mass. By whom made General Electric Co. When made 1944

ilers made at By whom made Combustion Engineering Co. Inc. When made 1944

minal Horse Power Owners Anglo Saxon Petroleum Co. Port belonging to London

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bath Steel Co. & S. Worth Steel Co.

te of Approval of plan ✓ Boiler hrs. P. 9449. S. 9444. Number and Description or Type

Boilers 2. Babcock & Wilcox Type Working Pressure 500 lbs Tested by Hydraulic Pressure to 450 lbs Date of Test 25.5.44

of Certificate NONE Can each boiler be worked separately yes Total Heating Surface of Boilers BOILER & WATER WALLS 4934 ft, SUPERHEATER 1434 ft

forced draught fitted yes ✓ Area of fire grate (coal) in each Boiler ✓

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

boiler 1 - 2½" I. High lift (Double) Area of each set of valves per boiler per rule ✓ as fitted 9.8 sq. ins Pressure to which they

adjusted 500 lbs. Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter

donkey boiler NONE Smallest distance between boilers or uptakes and bunkers or woodwork Well clear Height of boiler 21'0"

dth and Length 11'10" × 14'6" Steam Drums:—Number in each boiler one Inside diameter 3'5½" (Int. radius = 21 3/64 shell, 20 37/64 tube pl.)

ickness of plates SHELL 3/4" TUBE PLATE 1 13/32" Range of Tensile Strength ✓ Are drum shell plates welded

flanged welded If fusion welded, state name of welding firm not known Have all the requirements of the rules

Class I vessels been complied with ✓ Description of riveting:—Cir. seams ✓ long. seams ✓

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

g. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum 4" Pitch of tube holes 4"

rcentage strength of shell in way of tubes 42.85 Steam Drum Heads or Ends:—Range of tensile strength ✓

ickness of plates 1¼" Radius or how stayed ✓ Size of manhole or handhole 16" × 12" Water ~~Drums~~ WALL HEADERS:—Number

each boiler 5 Inside ~~Diameter~~ 5¾" square Thickness of plates 0.75 Range of tensile strength ✓ Are drum shell plates

lded or flanged Solid drawn If fusion welded, state name of welding firm ✓ Have all the requirements of the rules

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

ameter of rivet holes in long. seams ✓ Pitch of rivets ✓ Thickness of straps ✓

rcentage strength of long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes ~~in drum~~ HEADER 4" Pitch of tube holes 6 1/32"

rcentage strength of drum shell in way of tubes ✓ Water ~~Drum Heads~~ WALL HEADER Ends:—Range of Tensile strength ✓

ickness of plates 1½" Radius or how stayed flat Size of manhole or handhole ✓

eaders or Sections:—Number 14 UPTAKE 14 DOWNTAKE Material Steel Thickness 9/16" Tested by Hydraulic Pressure to 450 lbs

bes:—Diameter 1¼, 2" & 4" Thickness 13 BWG. 10 BWG. 5 & 6 BWG. Number 1148, 58 & 60 ~~Steam Dome or Collector~~ MUD DRUM:—Description of

int to ~~Drum~~ HEADERS nippled Inside ~~diameter~~ 5¾" square Thickness ~~of shell plates~~ 0.45 Range of tensile

rength ✓ Description of longitudinal joint solid drawn If fusion welded, state name of welding

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

tch of rivets ✓ Thickness of straps ✓ Percentage strength of long. Joint ✓ Plate ✓ Rivet ✓

~~Dome or~~ DRUM End Plates:—Range of tensile strength ✓ Thickness 1½" Radius or how stayed flat

UPERHEATER. Drums or Headers:—Number in each boiler 2 Inside ~~Diameter~~ 5¾" square.

ickness 0.45 Material Steel Range of tensile strength ✓ Are drum shell plates welded

flanged Solid drawn If fusion welded, state name of welding firm ✓ Have all the requirements of the rules

Class I vessels been complied with ✓ Description of riveting:—Cir. seams ✓ long. seams ✓

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

ng. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum 1¼" Pitch of tube holes ✓ Percentage strength of

um shell in way of tubes ✓ Drum Heads or Ends:— flat Thickness 1½" Range of tensile strength ✓

dius or how stayed ✓ Size of manhole or handhole ✓ Number, diameter, and thickness of tubes 145. 1¼". 11 BWG.

ested by Hydraulic Pressure to 450 lbs Date of Test not known Is a safety valve fitted to each section of the superheater which

n be shut off from the boiler yes No. and description of Safety Valves 1. 1½" High lift (single) Area of each set

valves 1.22 sq. ins. Pressure to which they are adjusted 464 lbs Is easing gear fitted yes

pare Gear. Has the spare gear required by the rules been supplied

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building	During progress of work in shops	Is the approved plan of boiler forwarded herewith
	During erection on board vessel	Total No. of visits

this boiler a duplicate of a previous case If so, state vessel's name and report No.

ENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This report is submitted for the information of the Committee.

L.D

Survey Fee ... ... £ : : When applied for, 19

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

M. Greenhalgh

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

ssigned

Ehl 28/10/47

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