

# REPORT ON WATER TUBE BOILERS.

No. 8732

Received at London Office

17 JAN 1946

writing Report Nov. 21, 1945 When handed in at Local Office Nov. 21, 1945 Port of PHILADELPHIA.

in Survey held at Norristown, Penna. Date, First Survey April 25, Last Survey November 2, 1945.

Blk. on the TSMV "FOZ DO DOURO" (Number of Visits 8) Tons } Gross

at Glasgow By whom built C. Connell & Company When built 1892-2 Net

25 tanks made at Beloit By whom made Fairbanks, Morse Co. When made 1944

tanks made at Norristown, Pa. By whom made Hilyard Company When made 1945

al Horse Power 413 Owners Julio Ribeiro Campos Port belonging to Oporto

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

of Approval of plan December 26, 1944 Number and Description or Type 8 Air Tanks

Working Pressure 250 Tested by Hydraulic Pressure to 425 Date of Test Jun. 21, 45

Certificate 745 Can each ~~boiler~~ be worked separately Yes Total capacity 34# per tank, total

ed draught fitted  Area of fire grate (coal) in each Boiler

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

r tank 1 - 2" Spring loaded Area of each set of valves per boiler { per rule

Adjusted 260 lbs. Are they fitted with easing gear  In case of donkey boilers state whether steam from main boilers can enter

key boiler  Smallest distance between boilers or uptakes and bunkers or woodwork  Height of boiler

and Length  ~~STEAM~~ Drums:—Number in each boiler 1 Inside diameter 29-1/8"

ess of plates 7/16" Range of Tensile Strength 55 - 65,000 lbs. Are drum shell plates welded

ged welded  If fusion welded, state name of welding firm Hilyard Company Have all the requirements of the rules

ss I vessels been complied with Yes Description of riveting:—Cir. seams welded long. seams welded

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

oint:—Plate  Rivet  Diameter of tube holes in drum  Pitch of tube holes

tage strength of shell in way of tubes  ~~STEAM~~ Drum Heads ~~at Ends~~:—Range of tensile strength 55 - 65,000

ess of plates 37/64" Radius or how stayed 30" Size of manhole or handhole None Water Drums:—Number

boiler  Inside Diameter  Thickness of plates  Range of tensile strength  Are drum shell plates

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

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

ter of rivet holes in long. seams  Pitch of rivets  Thickness of straps

tage strength of long. joint:—Plate 75% ~~STEAM~~ Diameter of tube holes in drum  Pitch of tube holes

tage strength of drum shell in way of tubes  Water Drum Heads or Ends:—Range of Tensile strength

ess of plates  Radius or how stayed  Size of manhole or handhole

es or Sections:—Number  Material  Thickness  Tested by Hydraulic Pressure to

Diameter  Thickness  Number  Steam Dome or Collector:—Description of

o Shell  Inside diameter  Thickness of shell plates  Range of tensile

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

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

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

ERHEATER. Drums or Headers:—Number in each boiler  Inside Diameter

Material  Range of tensile strength  Are drum shell plates welded

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

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

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

nt:—Plate  Rivet  Diameter of tube holes in drum  Pitch of tube holes

ell in way of tubes  Drum Heads or Ends:—Thickness  Range of tensile strength

or how stayed  Size of manhole or handhole  Number, diameter, and thickness of tubes

ny Hydraulic Pressure to  Date of Test  Is a safety valve fitted to each section of the superheater which

shut off from the boiler  No. and description of Safety Valves  Area of each set

Pressure to which they are adjusted  Is easing gear fitted

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

The foregoing is a correct description,

Manufacturer.

During progress of work in shops - - } April 25, May 2, 25, 29, June 12, 14, 21, 1945 air tank is the approved plan of ~~boiler~~ forwarded herewith Yes

During erection on board vessel - - - } November 2, 1945 Total No. of visits 8

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These 8 air tanks have been built under

1 Survey and in accordance with the approved plans, the workmanship and materials are good.

1 tank has been tested to a hydraulic test of 425 lbs. and hammer tested while under that pressure

ound satisfactory. Satisfactory bend, nick test and tensile tests have been carried out,

of which are attached. The tanks have been installed on board the vessel, all air pipes and

tested to 500 lbs., and all found satisfactory.

of Fee ... \$240.00 : } When applied for, July 2, 1945

illing Expenses (if any) \$ 13.50 : } When received, August 2, 1945

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Engineer Surveyor to Lloyd's Register of Shipping.

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