

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

Bk. 28 on the TSMV "FOZ DO DOURO" (Number of Visits 8) Tons { Gross Net

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

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

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

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

~~DEROTUBE 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 air tank 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 ~~heating surface of boilers~~ capacity 34# per tank, total

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

nd type of burners (oil) in each boiler ✓

r tank 1 - 2" Spring loaded No. and description of safety valves on ✓

Area of each set of valves per boiler { per rule as fitted 3.1416 sq.in. Pressure to which they

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

✓ 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 ✓

age strength of shell in way of tubes ✓ ~~STEAM~~ Drum Heads ~~or 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 ✓

age strength of long. joint:—Plate 75% ~~RXXX~~ Diameter of tube holes in drum ✓ Pitch of tube holes ✓

age 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 ✓

No 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

ed 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 ✓

er 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 ✓ Percentage strength of

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

During erection on board vessel - November 2, 1945 Is the approved plan of ~~boiler~~ forwarded herewith Yes

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.

ank 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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ed Transmit to London

Engineer Surveyor to Lloyd's Register of Shipping.

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