...t. 5c.

AIR TANKS.

REPORT ON ~~WATER TUBE BOILERS.~~

No. 7418

Received at London Office FEB -3 1938

...of writing Report 4th Jan 1938 When handed in at Local Office 6th Jan 1938 Port of Philadelphia

...No. in ...g. Bk. Survey held at Chester Pa Date, First Survey 3 Aug Last Survey 16 Dec 1937

on the SS M.V. RHODE ISLAND (Number of Visits 4) Tons { Gross 8562 Net 5070

...ster Built at Chester Pa By whom built Sun SB & DD Co When built 1937.

...gines made at Chester Pa By whom made Sun SB & DD Co When made "

~~...ilers~~ Tanks. made at Chester Pa By whom made Sun SB & DD Co When made "

~~Nominal~~ ~~Registered~~ Horse Power 1197. Owners The Texas Co Port belonging to Wilmington Del.

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

...letter for Record) Date of Approval of plan 5th Feb 1937. **Number and Description or Type**

~~Boilers~~ 3 air tanks Working Pressure 600 Tested by Hydraulic Pressure to 1200 Date of Test Sept 20/22 1937

...o. of Certificate 709. 712. 713 Can each ~~boiler~~ tank be worked separately ays **Total ~~Heating Surface of Boilers~~** Cap. air tanks 450 Cu ft

...forced draught fitted **Area of fire grate (coal) in each Boiler** Total grate area of boilers in vessel including ...ain and Auxiliary No. and type of burners (oil) in each boiler No and description of safety valves on ...ch boiler 1 Spring loaded. Area of each valve .7854. Pressure to which they are adjusted 600 lbs.

...e they fitted with easing gear ays In case of donkey boilers state whether steam from main boilers can enter the donkey boiler

...allest distance between boilers or uptakes and bunkers or woodwork Height of Boiler Width and Length

~~Steam~~ Drums:—Number ~~in each boiler~~ 1 Inside diameter 42" Material of plates Steel Thickness 1 3/16"

...nge of Tensile Strength 55-60000 lbs. Are drum shell plates welded or flanged Fusion Welded Description of riveting:—

...r. seams Fusion Welded long. seams Fusion Welded Diameter of rivet holes in long. seams Pitch of Rivets

...ap of plate or width of butt straps Thickness of straps Percentage strength of long. joint:—Plate 90% allowed Rivet

...iameter of tube holes in drum Pitch of tube holes Percentage strength of shell in way of tubes

...Drum has a flat side state method of staying No flat side Depth and thickness of girders at centre ...f fitted) Distance apart Number and pitch of stays in each Working pressure ...rules 650 lbs **~~Steam~~ Drum Heads or Ends:**—Material Steel Thickness 1 13/16" - 1 11/16" Radius or how stayed 36" Rad.

...ze of Manhole or Handhole 12" x 16" **Water Drums:**—Number in each boiler Inside Diameter

...aterial of plates Thickness Range of tensile strength Are drum shell plates welded ...flanged Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in ...ng. seams Pitch of rivets Lap of plates or width of butt straps Thickness of straps

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

...ercentage strength of drum shell in way of tubes **Water Drum Heads or Ends:—Material** None Thickness

...adius or how stayed Size of manhole or handhole **Headers or Sections:**—Number None.

...aterial Thickness Tested by Hydraulic Pressure to Material of Stays

...rea at smallest part Area supported by each stay Working Pressure by Rules **Tubes:**—Diameter

...hickness Number **Steam Dome or Collector:**—Description of Joint to Shell None.

...ercentage strength of Joint Diameter Thickness of shell plates Material

...escription of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell ...Rules **Crown or End Plates:**—Material None. Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

...ate of Test Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler

...iameter of Safety Valve Pressure to which each is adjusted Is easing gear fitted

...a drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes

Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,

Robert Wm Manufacturer.

SUN SHIPBUILDING & DRY DOCK CO.

Dates of Survey while building: During progress of work in shops - - 3 Aug 20-22 Sept 1937. Dec 16" Is the approved plan of boiler forwarded herewith

During erection on board vessel - - - Total No. of visits 4

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above tanks have been constructed under Special Survey, and in accordance with the approved plans. The workmanship & materials are good. After the welding was completed, the tanks were X-rayed & stress relieved, see seperate report on welding. The tanks were tested by raising the pressure to 900 lbs & hammering same with a 7 lbs hammer. the pressure was then raised to 1200 lbs & found satisfactory. The tanks have now been satisfactorily installed on board the vessel.

Survey Fee Fusion Welding Fee $80: When applied for, 7th Jan 1938

Travelling Expenses (in Tanks) $90: When received, 14th Jan 1938

Exp $4.00

E.W.H. W.S. Cunham

Engineer Surveyor to Lloyd's Register of Shipping.

NEW YORK JAN 26 1938

Committee's Minute

Assigned See First Entry Rpt. on Oil Eng.

© 2021 Lloyd's Register Foundation