

## REPORT ON WATER TUBE BOILERS.

No. 90

Received at London Office TUE. JUL. 6 1920

Writing Report 15 June 1920 When handed in at Local Office 15 June 1920 Port of Pittsburgh, Pa

Survey held at Oil City, Pa Date, First Survey 21-1-19 Last Survey 9 June 1920

on the new steel S.S. City of Verum Pensacola S. B. Corp. 55971 Tons { Gross 5707  
Net 5364

Built at Pensacola, Fla By whom built Pensacola S. B. Corp. When built 1919

By whom made Wooling Home & Co. When made 1920

By whom made Oil City Boiler Works When made 1919

Registered Horse Power 664 Owners United States Shipping Board Port belonging to Pensacola

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

for Record 7 Date of Approval of plan June 10th. 1918 Number and Description or Type Three Foster Marine Type

Working Pressure 225 lbs Tested by Hydraulic Pressure to 450 Date of Test 11-4-19

of Certificate No 19-70-21 Can each boiler be worked separately Yes Total Heating Surface of Boilers 8745 sq ft

forced draught fitted Yes Area of fire grate (coal) in each Boiler 82 2/3 sq ft Total grate area of boiler 5 in vessel including

No. and type of burners (oil) in each boiler 5 No. and description of safety valves on 220 lbs

boiler Two direct spring loaded Area of each valve 4.06 sq in Pressure to which they are adjusted 220 lbs

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

Height of Boiler 15'-0" Width and Length 12'-4" x 13'-4"

Distance between boilers or uptakes and bunkers or woodwork 18"

um Drums:—Number in each boiler One Inside diameter 3'-6" Material of plates Steel Thickness 3/4"

ge of Tensile Strength 78 to 37 tons sq in Are drum shell plates welded or flanged No Description of riveting:—

seams S.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/16" Pitch of Rivets 8"

of plate or width of butt straps 1 1/8 x 1 1/8" Thickness of straps 9/16" Percentage strength of long. joint:—Plate 75.5 Rivet 61.3

meter of tube holes in drum 3 1/32" Pitch of tube holes 8" x 9 1/4" Percentage strength of shell in way of tubes 67.2

Drum has a flat side state method of staying Yes Depth and thickness of girders at centre Yes

fitted) Distance apart Yes Number and pitch of stays in each Yes Working pressure 225 lbs

rules 305 Steam Drum Heads:—Material Steel Thickness 3/4" Radius or how stayed 3'-6"

Material of plates Steel Water Drums:—Number in each boiler None Inside Diameter Yes

Thickness Yes Range of tensile strength Yes Are drum shell plates welded Yes

Description of riveting:—Cir. seams Yes long. seams Yes Diameter of Rivet Holes in Yes

Pitch of rivets Yes Lap of plates or width of butt straps Yes Thickness of straps Yes

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

Percentage strength of drum shell in way of tubes Yes Water Drum Heads or Ends:—Material None Thickness Yes

Radius or how stayed Yes Size of manhole or handhole Yes Headers or Sections:—Number One

Material Steel Thickness Yes Tested by Hydraulic Pressure 450 lbs Material of Stays Steel

at smallest part 1.68 Area supported by each stay 56 sq in Working Pressure 225 lbs Tubes:—Diameter 3"

Thickness 10 W.G. Number 469 Steam Dome or Collector:—Description of Joint to Shell None

Percentage strength of Joint Yes Diameter Yes Thickness of shell plates Yes Material Yes

Description of longitudinal joint Yes Diameter of Rivet Holes Yes Pitch of Rivets Yes Working Pressure of shell Yes

Rules Yes Crown or End Plates:—Material Yes Thickness Yes How stayed Yes

PERHEATER. Type Foster Date of Approval of Plan Yes Tested by Hydraulic Pressure to 450 lbs

Date of Test 2nd April 1920 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes

Pressure to which each is adjusted 230 lbs Is easing gear fitted Yes

meter of Safety Valve 1" Number, diameter, and thickness of tubes 20 : 2" x 7/8"

are Gear. Tubes Yes Gaskets or joints:—Manhole Yes Handhole 20" Handhole plates 20"

The foregoing is a correct description,  
OIL CITY BOILER WORKS.

Manufacturer.

Dates { During progress of work in shops - - - 21-1-19 = 29-1-19 = 4-2-19 = 11-2-19 = 18-2-19  
4-3-19 = 11-4-19  
During erection on board vessel - - - Jan 27 Feb 16 18 24 March 9 19 April 2 20 23 24  
May 6 17 June 9

Is the approved plan of boiler forwarded herewith No

Total No. of visits 20

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

These boilers have been built under special survey. The material and workmanship are of good quality and the hydraulic tests proved satisfactory. They have been shipped to Pensacola, Fla. to be installed in the vessel. Pensacola Surveyors have been notified. These boilers have been satisfactorily installed on board, mounted and tested with the superheaters to 450 lbs pressure per sq inch. The safety valves adjusted under steam as above noted.

Survey Fee £ 2500 When applied for 24 April 1920

Travelling Expenses (if any) £ 2500 When received 15 May 1920

Engineer-Surveyor to Lloyd's Register of Shipping.

Committee's Minute

New York JUN 22 1920

Signed

See Para 54



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Foundation