

# REPORT ON WATER TUBE BOILERS.

No. 90

Received at London Office TUE. JUL. 6 1920

5c.

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

By whom built Pensacola S. B. Corp. When built 1919

By whom made Wooling Iron & M Co. When made 1920

By whom made Oil City Boiler Works When made 1919

Owners United States Shipping Board Port belonging to Pensacola

Registered Horse Power 664

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

Date of Approval of plan June 10th. 1918 Number and Description or Type Three Foster Main Type

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

Total Heating Surface of Boilers 8745 sq ft

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 Cohen No. and description of safety valves on boiler Two direct spring loaded

Area of each valve 4.06 sq in Pressure to which they are adjusted 220 lbs

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"

Material of plates Steel Thickness 3/4"

Are drum shell plates welded or flanged No Description of riveting:—

long. seams T.R.D.B.S Diameter of rivet holes in long. seams 1 5/16" Pitch of Rivets 8"

Percentage strength of long. joint:—Plate 75.5 Rivet 61.3

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

Water Drum Heads or Ends:—Material Steel Thickness 3/4" Radius or how stayed 3'-6"

Water Drums:—Number in each boiler None Inside Diameter None

Range of tensile strength None Are drum shell plates welded None

Diameter of Rivet Holes in None Thickness of straps None

Lap of plates or width of butt straps None Pitch of tube holes None

Water Drum Heads or Ends:—Material None Thickness None

Size of manhole or handhole None Headers or Sections:—Number One

Material of Stays Iron

Working Pressure 225 lbs Tubes:—Diameter 3"

Number 469 Steam Dome or Collector:—Description of Joint to Shell None

Thickness of shell plates None Material None

Diameter of Rivet Holes None Pitch of Rivets None Working Pressure of shell None

How stayed None

Superheater. Type Foster Date of Approval of Plan 2nd April 1920 Tested by Hydraulic Pressure to 450 lbs

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 casing gear fitted Yes

Number, diameter, and thickness of tubes 20 : 2" x 1/8"

Gaskets or joints:—Manhole 20" Handhole 20" Handhole plates 20"

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

Is the approved plan of boiler forwarded herewith No

Total No. of visits 20

Dates of Survey: During progress of work in shops: 21-1-19 = 29-1-19 = 4-2-19 = 11-2-19 = 18-2-19  
During erection on board vessel: 4-3-19 = 11-4-19

GENERAL REMARKS (State quality of workmanship, opinions as to class, &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 pres: per sq inch. The safety valves adjusted under steam as above noted.

Survey Fee To be credited to Pittsburgh £ meby upat When applied for 27 April 1920

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

Engineer-Surveyor William Bates Lloyd's Register of Shipping.

Committee's Minute New York JUN 22 1920

Assigned See Para 54

