

pt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 521

23 JUN 1930

Received at London Office

Date of writing Report MAY 20th 1930 When handed in at Local Office MAY 20th 1930 Port of Cleveland Ohio
PHILADELPHIA, PA.
 No. in Survey held at Danville N.Y. Date, First Survey March 12 Last Survey March 28 1930
 Reg. Bk. E. STROUDSBURG, PA. & CHESTER, PA. Number of Visits 2 Tons { Gross 9089
 on the M/V WESTERN SUN Net 5562
 Built at Chester, Pa. By whom built Sun S.B. & Co. When built 1930
 Engines made at CHESTER, PA. By whom made SUN S.B. & Co. When made 1930
 Boilers made at Danville N.Y. By whom made Woster Wheeler Corp. When made 1930 - 3
 Registered Horse Power 2800 Owners MOTOR TANKSHIP CORP. Port belonging to PHILADELPHIA.

EXHAUST WASTE HEAT BOILER

WATER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel BETHLEHEM STEEL CO. (CARTERSVILLE)

Letter for Record ONE, W.T. Date of Approval of plan MAR. 20th 1930 Number and Description or Type
 of Boilers ONE, W.T. Working Pressure 200 lbs. Tested by Hydraulic Pressure to 300 Date of Test MAR. 18-1930

No. of Certificate 633 Can each boiler be worked separately — Total Heating Surface of Boilers 1394 sq

Is forced draught fitted No. Area of fire grate (coal) in each Boiler — Total grate area of boilers in vessel including

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

each boiler TWO, SPRING LOADED. Area of each valve 4.9 sq Pressure to which they are adjusted 100 lbs.

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

Smallest distance between boilers or uptakes and bunkers or woodwork — Height of Boiler — Width and Length —

Steam Drums:—Number in each boiler ONE Inside diameter 24" Material of plates STEEL Thickness 7/16"

Range of Tensile Strength 62700-69900 lbs. Are drum shell plates welded or flanged No. Description of riveting:—

Cir. seams S.R. long. seams D.B. & R. Diameter of rivet holes in long. seams 15/16" Pitch of Rivets 3 1/2"

Lap of plate or width of butt straps 9" Thickness of straps 1/2"-7/16" Percentage strength of long. joint:—Plate 73.2 Rivet 88.76

Diameter of tube holes in drum 2.025" Pitch of tube holes 4 7/8" Percentage strength of shell in way of tubes —

If Drum has a flat side state method of staying ARCHED. Depth and thickness of girders at centre

(if fitted) — Distance apart — Number and pitch of stays in each — Working pressure

by rules 280 lbs. Steam Drum Heads or Ends:—Material STEEL. Thickness 7/16", 7/16" Radius or how stayed 24" RAD.

Size of Manhole or Handhole 11" x 15" Water Drums:—Number in each boiler — Inside Diameter —

Material of plates — Thickness — Range of tensile strength — Are drum shell plates welded

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

long. seams — Pitch of rivets — Lap of plates or width of butt straps — Thickness of straps —

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

Percentage strength of drum shell in way of tubes — Water Drum Heads or Ends:—Material — Thickness —

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

Material Steel Thickness — Tested by Hydraulic Pressure to 350 lbs. Material of Stays —

Area at smallest part — Area supported by each stay — Working Pressure by Rules 200 lbs. Tubes:—Diameter 2"

Thickness No 9. B.W.G. Number 36 Steam Dome or Collector:—Description of Joint to Shell —

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

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

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

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

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

Diameter of Safety Valve — Pressure to which each is adjusted — Is easing gear fitted —

Is 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,

Manufacturer.

Dates of Survey { During progress of work in shops -- March 12 & 28. MAR. 11. 18. Is the approved plan of boiler forwarded herewith Approved
 while building { During erection on board vessel -- APR. 7. 12. 24. MAY. 12. 13. Total No. of visits 9. John 14-1930.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The header is composed of a series of tubes bent in a shape, coupled together, & expanded in a seamless tube. The design conforms to the approved plan. The workmanship & material are good. Certificate No. 333

Survey Fee ... \$25.00

Travelling Expenses (if any) \$32.27

" " (PHILA.) \$8.60

SURVEY FEE \$15.00

When applied for, Apr. 9 1930When received, May 14 1930

E. Drummond

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JUN 11 1930Assigned 1 W.T.D.B. Steam Pressure 200 lbs

Emb.

Lloyd's Register
Foundation

002798-002807-0025