

Rpt. 5c.

REPORT ON WATER TUBE BOILERS

Phl. Rpt. No. 6112

No. 3765

23 JUN 1930

Received at London Office

Date of writing Report 22.4.30 1930 When handed in at Local Office 22.4.30 1930 Port of NEW ORLEANS, LA.
MAY 20th. 30 MAY 20th. 30 AND PHILADELPHIA.

No. in Survey held at CHATTANOOGA, TENN. Date, First Survey and Last Survey MARCH 6 1930.
AND CHESTER, PA.

Reg. Bk. on the SUNSHIP BUILDING CO. HULL No. 123. "WESTERN SUN" Number of Visits 1. Tons { Gross 9089.
 Net 5562.

Master — Built at CHESTER, PA. By whom built SUN S. B. & D. CO. When built 1930.

Engines made at CHESTER, PA. By whom made Do. When made 1930.

Boilers made at CHATTANOOGA. By whom made THE HEDGES, WALSH, WEIDNER CO. When made 1930.

Registered Horse Power 2800. Owners MOTOR TANKSHIP CORP. Port belonging to PHILADELPHIA.

WATER TUBE BOILERS ~~MAIN, AUXILIARY, OR DONKEY.~~ — Manufacturers of Steel WORTH STEEL CO.

(Letter for Record (S)) Date of Approval of plan 6.1.30 Number and Description or Type of Boilers ONE WATER TUBE. Working Pressure 200 Tested by Hydraulic Pressure to 350 Date of Test 6.3.30

No. of Certificate 108. Can each boiler be worked separately — Total Heating Surface of Boilers 4000 sq. ft.

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 4 COEN TYPE. No and description of safety valves on each boiler TWO, SPRING LOADED. Area of each valve 12.5 sq. in. Pressure to which they are adjusted 217 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 NO WOODWORK. Height of Boiler 9'-10" Width and Length 15'-3" X 12'-4"

Steam Drums:—Number in each boiler ONE Inside diameter 42" Material of plates STEEL Thickness 1/2"

Range of Tensile Strength 26-30 Are drum shell plates welded or flanged NO. Description of riveting:—

Cir. seams D.R. long. seams D.B.S.T.R. Diameter of rivet holes in long. seams 29/32" Pitch of Rivets 2 1/8"

Lap of plate or width of butt straps 16 1/2-21 1/2" Thickness of straps 3/8" Percentage strength of long. joint:—Plate 47.2 Rivet 47.2

Diameter of tube holes in drum 4" Pitch of tube holes 5 1/2" Percentage strength of shell in way of tubes 29.9

If Drum has a flat side state method of staying — Depth and thickness of girders at centre (if fitted) — Distance apart — Number and pitch of stays in each — Working pressure by rules —

Steam Drum Heads or Ends:—Material STEEL Thickness 11/16" - 13/16" Radius or how stayed 42"

Size of Manhole or Handhole 12" X 16" 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 — Thickness — Tested by Hydraulic Pressure to — Material of Stays —

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

Thickness — Number — 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 —

UPERHEATER. Type RADIANT Date of Approval of Plan — Tested by Hydraulic Pressure to 375 lbs.

Date of Test 13.5.30 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler YES.

Diameter of Safety Valve 2" Pressure to which each is adjusted 220 lbs. Is easing gear fitted NO.

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, The Hedges-Walsh-Weidner Co. Manufacturer. By W. Bathman

Dates of Survey } During progress of work in shops - - } MARCH 6.30. Is the approved plan of boiler forwarded herewith YES.
 while building } During erection on board vessel - - - } 1930. APR. 4. 12.24. MAY. 3.9.12. Total No. of visits 7.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the Rules and the approved plan the materials & workmanship are good the drum & headers were tested separately in account of shipping. This boiler in my opinion is slight to be classed subject to final test after assembly.

Survey Fee ... 100.00 When applied for, 22.4.1930. BOILER TESTED BY HYDRAULIC PRESSURE TO 375 lbs. 12th MAY.

Travelling Expenses (if any) £ 43.90 When received, 23.5.1930. R. Rosworthy J. H. ... Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JUN 11 1930

Assigned W.T.D.B. Steam Pressure 217 lbs. □

2. all separate sub-panels



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