

REPORT ON WATER TUBE BOILERS.

No. 47683

Received at London Office.

Report of writing Report 8<sup>TH</sup> APRIL 1947 When handed in at Local Office 8<sup>TH</sup> 1947 Port of NEW YORK 5<sup>TH</sup> MAY 1947  
No. in Survey held at BROOKLYN NY Date, First Survey 17<sup>TH</sup> MARCH Last Survey 3<sup>RD</sup> APRIL 1947  
Bk. 5204 on the STEEL SCREW STEAMSHIP THORA DAN EX HOKESMITH (Number of Visits 4) Tons { Gross  
at SAVANNAH GEORGIA By whom built SOUTHEASTERN S.B. CORP. When built 9-1943  
Engines made at HAMILTON OHIO By whom made GENERAL MACHINERY CO When made 9-1943  
Boilers made at CHATANOOGA By whom made COMBUSTION ENG<sup>R</sup> CO When made 9-1943  
Nominal Horse Power 652 Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel WORTH AND BETHLEHEM  
Date of Approval of plan MAY 20 1941 Number and Description or Type  
Boilers Two SINGLE DRUM CROSS TUBE Working Pressure 250 LB Tested by Hydraulic Pressure to 375 LB Date of Test 8-27-43  
of Certificate ABS Can each boiler be worked separately YES Total Heating Surface of Boilers 9,704 sq ft  
forced draught fitted YES Area of fire grate (coal) in each Boiler OIL FIRED  
and type of burners (oil) in each boiler 4 - TODD "HEX PRESS" No. and description of safety valves on  
boiler ONE - TWIN IMPROVED HIGH LIFT Area of each set of valves per boiler { per rule 25 sq  
as fitted 25 sq Pressure to which they  
adjusted 250 LB/sq Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter  
donkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork 5'-6" Height of boiler 15'-3 5/8"  
width and Length 14'-6 3/4" X 14'-7 3/4" Steam Drums: Number in each boiler ONE Inside diameter 47 3/8"  
thickness of plates 15/16 Range of Tensile Strength 70,000 LBS/sq MIN Are drum shell plates welded  
flanged WELDED If fusion welded, state name of welding firm COMBUSTION ENG<sup>R</sup> CO Have all the requirements of the rules  
Class I vessels been complied with YES A.B.S. Description of riveting: Cir. seams long seams  
diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of  
g. joint: Plate Rivet Diameter of tube holes in drum 4 3/32 Pitch of tube holes 7"  
percentage strength of shell in way of tubes 42.4 Steam Drum Heads or Ends: Range of tensile strength 65,000 LBS/sq MIN  
thickness of plates 15/16 Radius or how stayed ELLIPSOIDAL Size of manhole or handhole 12 X 16" Water Drums: Number  
each boiler Inside Diameter Thickness of plates Range of tensile strength Are drum shell plates  
flanged If fusion welded, state name of welding firm Have all the requirements of the rules  
Class I vessels been complied with Description of riveting: Cir. seams long seam  
diameter of rivet holes in long. seams Pitch of rivets 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: Range of Tensile strength  
thickness of plates Radius or how stayed Size of manhole or handhole  
headers or Sections: Number 44 Material FORGED STEEL Thickness 19/32 Tested by Hydraulic Pressure to  
tubes: Diameter 4" - 2" Thickness 6-10 BWG Number 88 - 602 Steam Dome or Collector: Description of  
inside to shell Inside diameter Thickness of shell plates Range of tensile  
length Description of longitudinal joint If fusion welded, state name of welding  
Have all the requirements of the rules for Class I vessels been complied with Diameter of rivet holes  
Pitch of rivets Thickness of straps Percentage strength of long joint Plate Rivet  
Radius or how stayed  
DOWN OR END PLATES: Range of tensile strength Thickness  
SUPERHEATER. Drums or Headers: Number in each boiler TWO Inside Diameter 6" SQUARE  
thickness 5/8 MIN WALL Material O.H.S. Range of tensile strength Are drum shell plates welded  
flanged SOLID DRAWN TUBING If fusion welded, state name of welding firm WELDED FLANGES COMBUSTION ENG<sup>R</sup> CO Have all the requirements of the rules  
Class I vessels been complied with YES ABS Description of riveting: Cir. seams long seams  
diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of  
g. joint: Plate Rivet Diameter of tube holes in drum 2.016 Pitch of tube holes 3 3/4 Percentage strength of  
drum shell in way of tubes 47 Drum Heads or Ends: Thickness Range of tensile strength  
radius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes 44, 2 DIA #10 BWG  
tested by Hydraulic Pressure to Date of Test  
be shut off from the boiler CANNOT BE SHUT OFF No. and description of Safety Valves 1 - 1 1/4" HIGH LIFT TYPE Area of each set  
valves 1.227 sq ins Pressure to which they are adjusted 230 LB/sq Is easing gear fitted NO  
Spare Gear. Has the spare gear required by the rules been supplied YES

The foregoing is a correct description,

Manufacturer.

Dates { During progress of  
Survey { work in shops - -  
while { During erection on  
building { board vessel - - -

Is the approved plan of boiler forwarded herewith

Total No. of visits

this boiler a duplicate of a previous case

If so, state vessel's name and report No. Chelabros

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers were built under the Special  
survey and to the requirements of the American Bureau of Shipping. The arrangements and scantlings  
are checked as far as practicable from available plans and from the vessel. The materials and  
workmanship are in my opinion satisfactory throughout. Please see report 9 attached for recommendations.

Survey Fee SEE RPT 4 £ : : When applied for, 19  
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute

NEW YORK APR 16 1947 J.F.G.

Assigned 2 W.T.B. - 250 lbs. (RPT. 230 lbs.)

Ally Saunders  
Engineer Surveyor to Lloyd's Register of Shipping.

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Foundation

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