

## REPORT ON WATER TUBE BOILERS

No. 56.166.

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Writing Report 15<sup>th</sup> JULY 1948 When handed in at Local Office 15<sup>th</sup> JULY 1948 Port of **CARDIFF**  
 in Survey held at **CARDIFF** Date, First Survey **6.5.48** Last Survey **26.6.1948**  
 Book. **"TENAGODUS"** (Number of Visits **6**) Gross **10,636** Tons  
 4 on the **MOBILE ALA.** By whom built **ALABAMA D.D. & S.B. Co.** Yard No. When built **1944**  
 at **LYNN, MASS.** By whom made **GENERAL ELECTRIC Co.** Engine No. When made **1944**  
 es made at **ST LOUIS, MO.** By whom made **COMBUSTION ENGINE Co INC.** Boiler No. When made **1944**  
 s made at **6000** Owners **ANGLO-SAXON PETROLEUM Co. LTD** Port belonging to **LONDON**

TER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel **WORTH STEEL CO.**  
 of Approval of plan **AMERICAN BUREAU** No. and Description or Type  
 ilers **2-SINGLE PASS, STRAIGHT TUBE** Working Pressure **300 LBS** Tested by Hydraulic Pressure to **750 LBS** Date of Test **3.2.44**  
 f Certificate Can each boiler be worked separately **YES** Total Heating Surface of Boilers **11,354 SFT**  
 ced draught fitted **YES** Area of Fire Grate (coal) in each Boiler **OIL FIRED**  
 nd type of burners (oil) in each boiler **4-TODD HEX-PRESS BAILEY METER CO. CONTROLS** No. and description of safety valves on  
 boiler **2-2" DIAM SPRING LOADED IMPROVED HIGH LIFT** Area of each set of valves per boiler { per rule **7.00 S"**  
 as fitted **6.28 S" + (1.775 SFT)** Pressure to which they  
 djusted **500 LBS** Are they fitted with easing gear **YES** In case of donkey boilers state whether steam from main boilers can enter  
 onkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork **5'-0"** Height of boiler **21'-0"**  
 h and length **11'-0" x 16'-0"** Steam Drums:—Number in each boiler **ONE** Inside diameter **4**  
 kness of plates **1 3/4"** Range of tensile strength **70,000 MIN** Are drum shell plates welded  
 nged **WELDED** If fusion welded, state name of welding firm Have all the requirements of the Rules  
 lass I vessels been complied with **YES A.B.** Description of riveting:—Circ. seams long. seams  
 eter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of  
 joint:—Plate Rivet Diameter of tube holes in drum **4** Pitch of tube holes  
 entage strength of shell in way of tubes Steam Drum Heads or Ends:—Range of tensile strength **70,000 MIN**  
 kness of plates **1 1/4"** Radius or how stayed **ELLIPSOIDAL** Size of manhole or handhole **12" x 16"** Water Drums:—Number  
 ch boiler Inside diameter Thickness of plates Range of tensile strength Are drum shell plates  
 ed or flanged If fusion welded, state name of welding firm Have all the requirements of the Rules  
 lass I vessels been complied with Description of riveting:—Circ. seams long. seams  
 eter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of  
 entage strength of long. joint:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes  
 entage strength of drum shell in way of tubes Water Drum Heads or Ends:—Range of tensile strength  
 kness of plates Radius or how stayed Size of manhole or handhole Tested by hydraulic pressure to **1000 LBS S"**  
 ders or Sections:—Number **14** Material **STEEL** Thickness **3/4"** Number **1148 222 56 36 14** Steam Dome or Collector:—Description of  
 es:—Diameter **1 1/2" 2 1/2" 4"** Thickness **13 14 10 5 BWC** Range of tensile  
 to shell Inside diameter Thickness of shell plates Range of tensile  
 ngth Description of longitudinal joint If fusion welded, state name of welding  
 Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes  
 h of rivets Thickness of straps Percentage strength of long. joint plate rivet  
 own or End Plates:—Range of tensile strength Thickness Radius or how stayed  
**PERHEATER, Drum Headers:—Number in each boiler TWO** Inside diameter **7 1/4" SQUARE**  
 kness **1"** Material **STEEL** Range of tensile strength **55,000 MIN** Are drum shell plates welded  
 langed If fusion welded, state name of welding firm Have all the requirements of the Rules  
 lass I vessels been complied with **AB** Description of riveting:—Circ. seams long. seams  
 eter 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 **1 1/4"** Pitch of tube holes Percentage strength of  
 m shell in way of tubes Drum Heads or Ends:—Thickness Range of tensile strength  
 lius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes **144 1 1/4" 11 BWC**  
 ted by hydraulic pressure to **750 LBS** Date of test Is a safety valve fitted to each section of the superheater which  
 be shut off from the boiler **CANNOT BE SHUT OFF** No. and description of safety valves **ONE - 1 1/2" SINGLE HIGH LIFT** Area of each set  
 valves **1.767 S"** Pressure to which they are adjusted **464 LBS S"** Is easing gear fitted **YES**  
 are Gear. Has the spare gear required by the Rules been supplied **YES**

The foregoing is a correct description,

Manufacturer.

Dates { During progress of work in shops - - }  
 Survey { During erection on 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.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. **THESE BOILERS HAVE BEEN BUILT UNDER SURVEY AND CLASS OF AMERICAN BUREAU. THE SCANTLINGS HAVE BEEN VERIFIED AS FAR AS PRACTICABLE AND SO FAR AS CAN BE SEEN THE MATERIALS AND WORKMANSHIP ARE GOOD AND BOILERS ARE ELIGIBLE IN MY OPINION TO BE CLASSED WITH RECORD OF B/S 6/48**

Survey Fee ... £ : When applied for 19.  
 Travelling Expenses (if any) £ : When received 19.

Date

FRI. 20 AUG 1948

Committee's Minute

See Rpt. 9

Thomas Donaldson  
 Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
 Foundation

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