

REPORT ON WATER TUBE BOILERS.

No. 127893

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Date of writing Report 19... When handed in at Local Office 19... Port of **LIVERPOOL**
 No. in Survey held at **BIRKENHEAD** Date, First Survey... Last Survey **30/10/1948**
 Reg. Book. on the **ESSO LONDON** (Number of Visits...)
 Built at **CHESTER, PENNSYLVANIA U.S.A.** By whom built **SUN SHIPBUILDING & DRYDOCK** Yard No. When built **1944**
 Engines made at **SCHENACTADY U.S.A.** By whom made **GENERAL ELECTRIC** Engine No. **61819** When made **1944**
 Boilers made at **NEW YORK U.S.A.** By whom made **BABCOCK + WILCOX CO.** Boiler No. **3-9674** When made **1944**
 Nominal Horse Power... Owners **ANGLO AMERICAN OIL CO. LTD.** Port belonging to **LONDON**

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

Date of Approval of plan... No. and Description or Type **2 Babcock & Wilcox Type**
 Boilers **2 Babcock & Wilcox Type** Working Pressure **500** Tested by Hydraulic Pressure to **750** Date of Test **PORT - 18-10-48**
 No. of Certificate **NONE** Can each boiler be worked separately... **yes** Total Heating Surface of Boilers **4934 sq. ft.**
 Is forced draught fitted... **yes** Area of Fire Grate (coal) in each Boiler **4 T.O.D.** No. and description of safety valves on...
 No. and type of burners (oil) in each boiler... **1 - 1 1/8" High Lift (Double)** Area of each set of valves per boiler **6.28 sq. ins.** Pressure to which they...
 Are they fitted with easing gear... **yes** In case of donkey boilers state whether steam from main boilers can enter...
 The donkey boiler... **NONE** Smallest distance between boilers or uptakes and bunkers or woodwork **Well clear** Height of boiler **21'-0"**
 Width and length **11'-10" x 17'-6"** Steam Drums:—Number in each boiler **One** Inside diameter **42"**
 Thickness of plates **Shell 3/4" Tube plate 1 1/2"** Range of tensile strength... Are drum shell plates welded...
 Or flanged **Welded** If fusion welded, state name of welding firm **Not known** Have all the requirements of the Rules...
 For Class I vessels been complied with... Description of riveting:—Circ. seams... long. seams...
 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 **4"** Pitch of tube holes **7"**
 Percentage strength of shell in way of tubes... **42.85** Steam Drum Heads or Ends:—Range of tensile strength...
 Thickness of plates **1 1/4"** Radius or how stayed... Size of manhole or handhole **16" x 12"** Water Drums:—Number...
 In each boiler **5** Inside diameter **5 3/4" Square** Thickness of plates **3/4"** Range of tensile strength... Are drum shell plates...
 Welded or flanged **Solid drawn** If fusion welded, state name of welding firm... Have all the requirements of the Rules...
 For Class I vessels been complied with... Description of riveting:—Circ. seams... long. seams...
 Diameter of rivet holes in long. seams... Pitch of rivets... Thickness of straps... Percentage strength of...
 Percentage strength of long. joint:—Plate... Rivet... Diameter of tube holes in **HEADER** **4"** Pitch of tube holes **6 1/2"**
 Percentage strength of drum shell in way of tubes... Water Drum Heads or Ends:—Range of tensile strength...
 Thickness of plates **1 1/2"** Radius or how stayed... Size of manhole or handhole...
 Headers or Sections:—Number **14 UPTAKE 14 DOWNTAKE** Material **Steel** Thickness **9/16"** Tested by hydraulic pressure to...
 Tubes:—Diameter **1 1/4", 2" + 4"** Thickness **13, 10 + 6 B.W.G.** Number **1148, 58 + 60** Steam Dome or Collector:—Description of...
 Joint to **HEADERS** **Riveted** Inside diameter **5 3/4" Square** Thickness of shell plates **3/4"** Range of tensile...
 Strength... Description of longitudinal joint **Solid drawn** If fusion welded, state name of welding...
 Firm... Have all the requirements for 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...
 Crown or End Plates:—Range of tensile strength... Thickness **1 1/2"** Radius or how stayed **Flat**
SUPERHEATER, Drums or Headers:— Number in each boiler **2** Inside diameter **5 3/4" Square**
 Thickness **3/4"** Material **Steel** Range of tensile strength... Are drum shell plates welded...
 Or flanged **Solid drawn** If fusion welded, state name of welding firm... Have all the requirements of the Rules...
 For Class I vessels been complied with... Description of riveting:—Circ. seams... long. seams...
 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 **1 1/4"** Pitch of tube holes... Percentage strength of...
 Drum shell in way of tubes... **Drum Heads or Ends:—Flat** Thickness... Range of tensile strength...
 Radius or how stayed... Size of manhole or handhole... Number, diameter, and thickness of tubes **145-1 1/4"-11 B.W.G.**
 Tested by hydraulic pressure to **750** Date of test **PORT - 18-10-48** Is a safety valve fitted to each section of the superheater which...
 Can be shut off from the boiler... **yes** No. and description of safety valves **1 - 1 1/4" High Lift (Double)** Area of each set...
 Of valves **1.22 sq. inches** Pressure to which they are adjusted **465 lbs/10"** Is easing gear fitted **yes**
Spare Gear. Has the spare gear required by the Rules been supplied **yes**

The foregoing is a correct description,

Manufacturer.

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

Is the approved plan of boiler forwarded herewith

Total No. of visits

Is this boiler a duplicate of a previous case... **yes** If so, state vessel's name and report No.

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

information of the committee.

This report is submitted for the

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

James H. Smyth
 Engineer Surveyor to Lloyd's Register of Shipping.

Date **LIVERPOOL 23 NOV 1948**
 Committee's Minute **See Minute on Liverpool Machinery Rpt.**

Lloyd's Register
 Foundation
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