

## REPORT ON WATER TUBE BOILERS.

No. 770

Received at London Office.

6 JUL 1959

Date of writing Report 1<sup>st</sup> June 1959 When handed in at Local Office 18-6-1959 Port of NANTES  
 No. in Survey held at BREST Date, First Survey 15-10-1958 Last Survey 26/5-1959  
 Reg. Book. (Number of Visits 10) Gross 23997  
 on the SINGLE SCREW "ESSO NORWICH" Tons Net 23997  
 Built at ARSENAL DE BREST By whom built ATELIERS & CH. DE FRANCE Yard No. 227 When built 1959-5  
 Engines made at LILLE By whom made SOC. FIVES-LILLE-CAIL Engine No. 1110-1111 When made 1956-1958  
 Boilers made at LACOURNEUVE & DUNKIRK By whom made BABCOCK & WILCOX CH. DE FRANCE Boiler No. 12177-D&C When made 1958  
 HS for Register Book 20,000 Sq. Ft. Owners ESSO PETROLEUM CO. LTD Port belonging to LONDON

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

SEE PAR. RPT No 4.

Date of Approval of plan 29/9/56 9/1/57 No. and Description or Type  
 of Boilers 2 WATER TUBE INTEGRAL FURNACE TYPE Working Pressure 68 KGS/CM<sup>2</sup> Tested by Hydraulic Pressure to 97 lbs Date of Test

No. of Certificate Can each boiler be worked separately Total Heating Surface of Boilers Superheaters

Half Economisers Is forced draught fitted Area of Fire Grate (coal) in each Boiler 5 - EDWA. TYPE

No. and type of burners (oil) in each boiler 5 - EDWA. TYPE No. and description of safety valves on

each boiler 2 x 1.5/8" SINGLE DEWRANCE CONSOLIDATED Area of each set of valves per boiler per rule Pressure to which they  
as fitted 2 x 1.5/8" DIA.

are adjusted 940 & 945 lbs/in<sup>2</sup> 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 Inside diameter

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

or flanged 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 Pitch of tube holes

Percentage strength of shell in way of tubes Steam Drum Heads or Ends:—Range of tensile strength

Thickness of plates Radius or how stayed Size of manhole or handhole Water Drums:—Number

in each boiler Inside diameter Thickness of plates Range of tensile strength Are drum shell plates

welded or flanged 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 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 Material Thickness Tested by hydraulic pressure to

Tubes:—Diameter Thickness Number Steam Dome or Collector:—Description of

joint to shell Inside diameter Thickness of shell plates Range of tensile

strength Description of longitudinal joint 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 Radius or how stayed

SUPERHEATER, Drums or Headers:—Number in each boiler Inside diameter

Thickness Material Range of tensile strength Are drum shell plates welded

or flanged 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 Pitch of tube holes Percentage strength of

drum shell in way of tubes Drum Heads or Ends:—Thickness Range of tensile strength

Radius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes

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 YES No. and description of safety valves 1 x 1.5/8" SINGLE DEWRANCE CONSOLIDATED Area of each set

of valves 1.5/8" DIA Pressure to which they are adjusted 885 lbs/in<sup>2</sup> Is easing gear fitted YES

Spare Gear. Has the spare gear required by the Rules been supplied YES

Safety Valves approved for 885 lbs 860°F

These foregoing is a correct description, 15/6/59 Manufacturer.

Is the approved plan of boiler forwarded herewith

SEE MACHINERY 1ST ENTRY RPT. Total No. of visits

Dates of Survey During progress of work in shops - -

while building During erection on board vessel - -

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been satisfactorily installed

on board the ship under Special Survey, examined under full working conditions and are in my opinion

eligible to be classed as part of the Machinery Installation with the Notation + LMC-5-59

Survey Fee ... £ ... When applied for 19

Travelling Expenses (if any) £ 50.000 When received 19

Date

Committee's Minute See Rpt. 1.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register of Shipping

012792 012795 0168