

REPORT ON WATER TUBE BOILERS.

No. 15093 15 JAN 1960

Received at London Office

Date of writing Report 17.12.59 19... When handed in at Local Office... 19... Port of TRIESTE

No. in Survey held at Trieste & Monfalcone Date, First Survey see Rpt 4a Last Survey... 19...
 (Number of Visits...) Gross 23720

Reg. Book. 0931 on the ESSO LIVERPOOL Tons Net 12752

Built at Monfalcone By whom built C.R.D. Adriatico Yard No. 1841 When built 1959-11

Engines made at Trieste By whom made -do- Engine No. 320/321 When made 1959

Boilers made at Glasgow & Trieste By whom made C.R.D. Adriatico Boiler No. 2056/2057 When made 1959

HS for Register Book 19,836 Owners Esso Petroleum Co., Ltd. Port belonging to London

WATER TUBE BOILERS—MAIN, ~~AUXILIARY, OR DONKEY~~—Manufacturers of Steel Chesterfield Tube Co. (See Certificates)

Date of Approval of plan 31.8.56, 3.9.56, 17.10.56 & 16.4.57 by Glasgow Office No. and Description or Type Two : two drum Babcock & Wilcox

of Boilers Two : two drum Babcock & Wilcox Design Pressure 965 PSI Tested by Hydraulic Pressure to 1498 PSI Date of Test 27.4.59

No. of Certificate 447/448 Can each boiler be worked separately yes Total Heating Surface of Boilers 2 x 8750 Superheaters 2 x 1168 sq. ft.

Half Economisers none Is forced draught fitted yes Area of Fire Grate (coal) in each Boiler -

No. and type of burners (oil) in each boiler 5 Dewrance type No. and description of safety valves on each boiler 2. 1.5/8" dia. Spring loaded full bore

each boiler 2. 1.5/8" dia. Spring loaded full bore Area of each set of valves per boiler per rule as appd. 4.148 sq. ins. Pressure to which they are adjusted 945 PSI

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 ample Height of boiler abt. 20'-0"

Width and length abt. 17'-0" x 20'-0" Steam Drums:—Number in each boiler one Inside diameter 4'-0 1/4"

Thickness of plates 4.13/16" & 1.9/16" Range of tensile strength Min. 32 Tons/sq. inch Are drum shell plates welded or flanged welded

If fusion welded, state name of welding firm B & W. See Glasgow Cert. C.51076 Have all the requirements of the Rules for Class I vessels been complied with yes

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 1.26" Pitch of tube holes 1.7/8" x 1.1/2" Percentage strength of shell in way of tubes as appd.

Steam Drum Heads or Ends:—Range of tensile strength - Thickness of plates 1.7/8"

Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number in each boiler one

Inside diameter 2'-6" Thickness of plates 2.15/16" Range of tensile strength Min. 34 T/sq. inch Are drum shell plates welded or flanged welded

If fusion welded, state name of welding firm B & W. See Glas. Cert. C51076 Have all the requirements of the Rules for Class I vessels been complied with yes

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 1.26" Pitch of tube holes 1.7/8" x 1.1/2" Percentage strength of drum shell in way of tubes as appd.

Water Drum Heads or Ends:—Range of tensile strength - Thickness of plates 1.7/8"

Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Headers or Sections:—Number 3

Material steel Thickness 1.1/4"-1.1/8" & 1" Tested by hydraulic pressure to 1498 PSI

Tubes:—Diameter 1.1/4", 2" & 3.1/4" Thickness 10, 7 & 0 SWG Number 1725, 161 & 6

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 two

Outside diameter 10 1/4" Thickness 1/16" Material 1/2% Moly Steel

Range of tensile strength See Glas. Cert. C35498 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 1.26" Pitch of tube holes 1.13/16" x 26 degrees Percentage strength of drum shell in way of tubes as appd.

Drum Heads or Ends:—Thickness 1.1/8" Range of tensile strength - Radius or how stayed forged & welded

Size of manhole or handhole 4" x 4.3/8" Number, diameter, and thickness of tubes 150 x 1.1/4" 10 & 8 SWG

Tested by hydraulic pressure to 1498 PSI Date of test 22 & 26.8.59 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 one 1.5/8" dia. full bore Dewrance Area of each set of valves 2.0739 sq. ins.

Pressure to which they are adjusted 935 PSI Is easing gear fitted yes Spare Gear. Has the spare gear required by the Rules been supplied yes

The foregoing is a correct description, Cantieri Riuniti Dell Adriatico, FARRICA MACCHINE S. A. Manufacturer.

Is the approved plan of boiler forwarded herewith no Retained for sister vessel. Total No. of visits

Dates of Survey } During progress of work in shops - - } See separate sheet
while building } During erection on board vessel - - }

Is this boiler a duplicate of a previous case yes If so, state vessel's name and report No. ESSO COVENTRY Trieste Rpt. N. 14993

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. The steam and water drums, water wall headers, superheater headers and stud water wall tubes were manufactured by Babcock & Wilcox (see Glasgow Certs. N's. C.51076 and C.35495, C.55494 and C.47967). The steam and water drums were drilled by C.R.D. Adriatico Trieste and the remaining tubes supplied by Dalmine (Italy). The boilers and superheaters were assembled by Messrs. C.R.D. Adriatico Trieste and

Survey Fee see Rpt 4a : : When applied for 19
Travelling Expenses (if any) £ : : When received 19

FRIDAY 12 FEB 1960

Date See Rpt. 1
Committee's Minute

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Contd.../

on the S.S./M.S. ESSO LIVERPOOL C.R.D.A. YARD N° 1841

efficient installed in the above vessel, all in accordance with the approved plans and the Rule requirements.

The boilers and superheaters were tested on completion under hydraulic pressure to the pressures stated above.

The materials and workmanship are good.

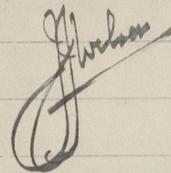
The boilers and superheaters have been examined under full steaming conditions and their safety valves adjusted to the pressures indicated above.

Satisfactory accumulation tests have been carried out.

The boilers are eligible, in our opinion, for the highest classification and to have the Notation :-

2 W.T. Boilers 965 P.S.I. Supht. 935 P.S.I.

F.D. O.F. Heating Surface 19,836 sq.ft.



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