

REPORT ON WATER TUBE BOILERS.

No. 125861

Received at London Office

Date of writing Report 18. 8. 1947 When handed in at Local Office

19

Port of

Liverpool

No. in Survey held at Birkenhead Date, First Survey _____ Last Survey _____ 19____
 Reg. Bk. 3549 on the S.S. "Esso BIRMINGHAM" (Number of Visits _____) Tons { Gross 10430
 Net 4419
 Built at Chesham, Pa. By whom built Sun S.B. & Dry Dock Co. When built 1943
 Engines made at Lynn, Mass. By whom made General Electric Co. When made 1943
 Boilers made at _____ By whom made Babcock & Wilcox Ltd. When made 1943
 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 _____ Number and Description or Type _____
 of Boilers 2 B.W. main type Working Pressure 500 lbs./sq. in. Tested by Hydraulic Pressure to _____ Date of Test 1943
 No. of Certificate _____ Can each boiler be worked separately yes Total Heating Surface of Boilers Superheater 842 sq. ft.
 Is forced draught fitted yes Area of fire grate (coal) in each Boiler _____
 No. and type of burners (oil) in each boiler 4 Babcock & Wilcox No. and description of safety valves on _____
 each boiler 2 2" high lift single Area of each set of valves per boiler { per rule _____ as fitted 6.28 sq. in. Pressure to which they _____
 are adjusted 500 lbs./sq. in. 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 13'6" x 18'6" Steam Drums:—Number in each boiler one Inside diameter 42 in. Are drum shell plates welded _____
 Thickness of plates Drum 3/32" Subplate 1 1/16" Range of Tensile Strength _____ Have all the requirements of the rules _____
 or flanged welded If fusion welded, state name of welding firm _____
 for Class I vessels been complied with _____ Description of riveting:—Cir. 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 6 3/8"
 Percentage strength of shell in way of tubes 41.2% Steam Drum Heads or Ends:—Range of tensile strength _____
 Thickness of plates _____ Radius or how stayed _____ Size of manhole or handhole 16" x 12" Water Drums:—Number _____
 in each boiler none 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:—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 14 pairs Material S.D. Steel Thickness 1 1/2" Tested by Hydraulic Pressure to _____
 Tubes:—Diameter 4 1/2", 4", 3 1/2", 2 1/2" Thickness 49, 59, 69, 109, 139 Number 14, 28, 256, 1148 Steam DRUM or Collector:—Description of _____
 Joint to Shell rippled Inside diameter 4 1/2" x 4 1/2" 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 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 _____
 Crown or End Plates:—Range of tensile strength _____ Thickness _____ Radius or how stayed _____
 SUPERHEATER. Drums or Headers:—Number in each boiler 1 inlet & 1 outlet Inside Diameter 4 1/2" x 4 1/2"
 Thickness 3/8" Material S.D. 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:—Cir. 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:—Thickness _____ Range of tensile strength _____
 Radius or how stayed _____ Size of manhole or handhole _____ Number, diameter, and thickness of tubes 219, 1 1/2", 118
 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 1 1/2" H.C. single Area of each set _____
 of valves 1.46 sq. in. Pressure to which they are adjusted 464 lbs./sq. in. 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 _____

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

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

This report is submitted for the information of the Committee.

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

MLD

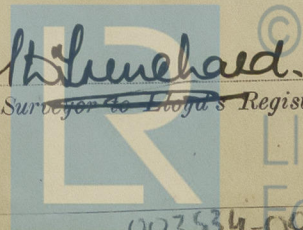
Committee's Minute
 Assigned

LIVERPOOL

26 AUG 1947

See Minute on Liverpool Machinery Report.

Engineer Surveyor to Lloyd's Register of Shipping.



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003534-003540-000