

REPORT ON WATER TUBE BOILERS.

No. 6559

22 SEP

REC'D NEW YORK AUG 7 1961

Received at London Office.

Date of writing Report May 11 19 61 When handed in at Local Office _____ 19 _____
 No. in Survey held at El Monte, Los Angeles, California Date, First Survey 21 Feb. 1961 Last Survey March 22 19 61
 Reg. Bk. 1556 on the MOTORSHIP "TORO" (Number of Visits _____) Tons { Gross 512
 Built at LEITH By whom built HENRY ROBB LIMITED When built 1961
 Engines made at COLOGNE By whom made KLOCKNER-HUMBOLT-DEUTZ A.G. When made 1961
 Boilers made at El Monte, California By whom made Clayton Manufacturing Company When made March, 1961
 Brake Horse Power 660 Owners UNION LIGHTERAGE CO. LTD Port belonging to LONDON

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Kaiser, National & Stewart & Lloyd

Date of Approval of plan November 18, 1953 & June 18, 1957 (50 HP Type) Number and Description or Type
 of Boilers One-Coil Type Steam Generator Max. 200 Working Pressure 160 PSI Tested by Hydraulic Pressure to 350 PSI Date of Test 2-21-61

No. LR 977 Can each boiler be worked separately Yes Total Heating Surface of Boilers 104 Sq.Ft.

Is forced draught fitted Yes Area of fire grate (coal) in each Boiler _____
 No. and type of burners (oil) in each boiler One-Clayton Oil Fired Burner

No. and description of safety valves on each boiler Two (2) 1" Dia. Consolidated #1543 (Bore Dia. 625") No. and description of safety valves on _____
 Are they adjusted 200 P.S.I. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter _____
 Can be donkey boiler No Smallest distance between boilers or uptakes and bunkers or woodwork _____ Height of boiler _____

Width and Length 25.3" Dia. Steam Drums:—Number in each boiler One Inside diameter 7.89"
 Thickness of plates .322" Range of Tensile Strength 60,000 P.S.I. MIN. Are drum shell plates welded _____
 or flanged Welded If fusion welded, state name of welding firm Normalized @ 1150°F. Have all the requirements of the rules _____
 for Class I vessels been complied with ASME Boiler Code Sec. 1&9 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 _____ Pitch of tube holes _____

Percentage strength of shell in way of tubes _____ Steam Drum Heads or Ends:—Range of tensile strength 45-55,000 PSI MIN.
 Thickness of plates .312 Radius or how stayed Ellipsoidal Size of manhole or handhole Two - 1" Dia. 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:—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 _____ Material _____ Thickness _____ Tested by Hydraulic Pressure to _____
 Tubes:—Diameter 1.062", 1.315", 1.660" Thickness .075", .085" & .095" Number _____ Welded into one continuous length _____
 joint to Shell _____ Inside diameter _____ Thickness of shell plates _____ Steam Dome or Collector:—Description of _____
 strength _____ Description of longitudinal joint _____ 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 _____ 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:—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 _____ Pitch of tube holes _____ Percentage strength of _____
 drum shell in way of tubes _____

Radius or how stayed _____ Drum Heads or Ends:—Thickness _____ Range of tensile strength _____
 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 _____ No. and description of Safety Valves _____ Area of each set _____
 of valves _____ Pressure to which they are adjusted _____ Is easing gear fitted _____

Spare Gear. Has the spare gear required by the rules been supplied Yes

R. N. Benlehr
 R. N. BENLEHR - FINISHED PRODUCTS INSPECTOR - for - The foregoing is a correct description,
CLAYTON MANUFACTURING COMPANY Manufacturer.

Dates of Survey } During progress of } Feb. 24, 1961 & March 22, 1961 Is the approved plan of boiler forwarded herewith No
 while } work in shops - - }
 building } During erection on }
 board vessel - - - }

Total No. of visits Two

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. L.An.Rpt.No. 6501

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Coil Type Steam Generator was built under
the Special Survey of the Society's Surveyor to Rule Requirements & in accordance with approved plans.
The workmanship and materials are good, and in my opinion this boiler is eligible to be classed with
this Society when installed on board ship and tested to the satisfaction of the Surveyor.

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

NEW YORK AUG 30 1961

Committee's Minute _____
 Assigned Transmit to London

Engineer Surveyor to Lloyd's Register of Shipping.

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