

REPORT ON WATER TUBE BOILERS.

No. 6559

22 SEP 1961

Received at London Office.

Date of writing Report May 11 19 61 When handed in at Local Office Port of LOS ANGELES HARBOUR, CALIFORNIA

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
Net 255

Built at LEITH By whom built HENRY ROBB LIMITED When built 1961

Engines made at COLOGNE By whom made KLOCKNER-HUMBOLDT-DEUTZ A.G. When made 1961

Boilers made at El Monte, California By whom made Clayton Manufacturing Company When made March, 1961

Boiler 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

Each boiler Two (2) 1" Dia. Consolidated #1543 (Bore Dia. 6.25") No. and description of safety valves on

Are adjusted 200 P.S.I. Area of each set of valves per boiler {per rule
as fitted .614 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 No Smallest distance between boilers or uptakes and bunkers or woodwork

Width and Length 25.3" Dia. Steam Drums:—Number in each boiler One Height of boiler

Thickness of plates .322" Range of Tensile Strength 60,000 P.S.I. MIN. Inside diameter 7.89"

Are flanged Welded If fusion welded, state name of welding firm Normalized @ 1150°F. Are drum shell plates welded

For Class I vessels been complied with ASME Boiler Code Sec. 1&9 Have all the requirements of the rules

Diameter of rivet holes in long. seams Description of riveting:—Cir. seams long. seams

Percentage strength of long. joint:—Plate Rivet Thickness of straps Percentage strength of

Percentage strength of shell in way of tubes Diameter of tube holes in drum Pitch of tube holes

Thickness of plates .312 Radius or how stayed Ellipsoidal Size of manhole or handhole Two - 1" Dia. Water Drums:—Number

Are drum shell plates welded or flanged Range of tensile strength

For Class I vessels been complied with If fusion welded, state name of welding firm Have all the requirements of the rules

Diameter of rivet holes in long. seams Description of riveting:—Cir. seams long. seam

Percentage strength of long. joint:—Plate Rivet Thickness of straps

Percentage strength of drum shell in way of tubes Diameter of tube holes in drum Pitch of tube holes

Thickness of plates Water Drum Heads or Ends:—Range of Tensile strength

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" Welded into one continuous length

Point to Shell Inside diameter Thickness of shell plates Steam Dome or Collector:—Description of

Strength Range of tensile

If fusion welded, state name of welding

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

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 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

The foregoing is a correct description, CLAYTON MANUFACTURING COMPANY Manufacturer.

N. BENLEHR - FINISHED PRODUCTS INSPECTOR - for -

Dates of Survey } During progress of } Feb. 24, 1961 & March 22, 1961 Is the approved plan of boiler forwarded herewith No

while } During erection on } Total No. of visits Two

building } board vessel - - - }

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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