

REPORT ON WATER TUBE BOILERS.

Mtl. Rpt. No. 7587

Received at London Office 14 DEC 1948

Writing Report: 1st Sept. 1948. When handed in at Local Office: 2nd Sept. 1948. Port of: QUEBEC, P.Q.

No. in Survey held at: Lauzon, P.Q. Date, First Survey: 11th March Last Survey: 23rd July 1948

Boiler on the: Steel Twin Screw M.V. "CHING MEN" (Number of Visits: Six) Gross Tons: 909.11 Net Tons: 519.34

At: Lauzon, P.Q. By whom built: Geo. T. Davie & Sons Ltd. When built: 1948

Boilers made at: Cleveland, U.S.A. By whom made: General Motors When made: 1947

Boilers made at: El Monte, California By whom made: Claxton Manufacturing Company When made: 1947

Indicated Horse Power: 426 Owners: Ming Sung Industrial Company Port belonging to: Shanghai

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel: Bethlehem or Worth & National Seamless Steel Pipe.

Approval of plan: 1-12-47 C.M. New York. Number and Description or Type: 2 Model B.O. 25 H.P. Clayton Steam Generator. Working Pressure: 100 lbs. Tested by Hydraulic Pressure to: 240 Date of Test: 26-4-48

Boilers: C-4755 & C-4756 Can each boiler be worked separately: Yes Total Heating Surface of Boilers: 74.5 sq.ft. each

Forced draught fitted: No Area of fire grate (coal) in each boiler: -

Kind and type of burners (oil) in each boiler: (1) One Automatic Regulated Burner. - Ht. 36"x30" dia. No. and description of safety valves on boiler: one 1 1/2" spring loaded. Area of each set of valves per boiler: { per rule: .81 Sq. In. as fitted: 1.227 Pressure to which they are adjusted: 100 lbs. Are they fitted with easing gear: No In case of donkey boilers state whether steam from main boilers can enter donkey boiler: No

Smallest distance between boilers or uptakes and bunkers or woodwork: - Height of boiler: -

Accumulator: Number in each boiler: one Inside diameter: 6"

Thickness of plates: .280 Range of Tensile Strength: A.S.T.M. Spec. A-53 Are drum shell plates welded: Seamless If fusion welded, state name of welding firm: - Have all the requirements of the rules 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 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: Specification A-70

Thickness of plates: 5/8" Radius or how stayed: Flat Size of manhole or handhole: None fitted. Water Drums: - Number: - Are drum shell plates welded or flanged: - If fusion welded, state name of welding firm: - Have all the requirements of the rules 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: 0 -

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: -

Boilers or Sections: - Number: - Material: - Thickness: - Tested by Hydraulic Pressure to: -

Boilers: - Diameter: 1.05" & 1.315" Thickness: .078" & .090" Number: One continuous Steam Dome or Collector: - 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: -

Percentage strength of long. joint: - Plate: - Rivet: -

Man or End Plates: - Range of tensile strength: - Thickness: - Radius or how stayed: -

SUPERHEATER. Drums or Headers: - Number in each boiler: - Inside Diameter: -

Material: - Range of tensile strength: - Are drum shell plates welded: - If fusion welded, state name of welding firm: - Have all the requirements of the rules 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 joint: - Plate: - Rivet: - Diameter of tube holes in drum: - Pitch of tube holes: - Percentage strength of 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: -

Easing Gear. Has the spare gear required by the rules been supplied: -

The foregoing is a correct description,

Manufacturer.

Is the approved plan of boiler forwarded herewith: No

Total No. of visits: Six

Is boiler a duplicate of a previous case: Yes If so, state vessel's name and report No.: M.V. "KUEI MEN" Mtl. Rpt. No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boilers were not constructed under Special Survey, the material tested by this Society's Surveyors; but affidavits regarding the materials and shop tests have been obtained and found satisfactory.

Boilers have now been fitted on board, examined, hydrostatically tested and examined under full working conditions and found satisfactory. (P.T.O.)

Survey Fee (Donkey Bhe #25.00) : When applied for, Oct. 28 1948

Shipping Travelling Expenses (if any) & included : When received, 19

in Knack. Rpt. MON. 11 APR 1949

Committee's Minute See minute on

igned fe. rpt.



B610-284510-474510

The Safety Valves were adjusted under steam to 100 lbs./sq. inch all in accordance with the London letter dated 31st December, 1947, so far as could be determined the workmanship is satisfactory. It is recommended that a redord of Port and Starboard D.B.S. be now assigned to these Boilers.

Rpt. 4c.

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