

REPORT ON WATER TUBE BOILERS.

No. 1794 (YKA) 3525 K O B E

Received at London Office 14 MAY 1956

Date of writing Report 19. When handed in at Local Office 19. Port of YOKOHAMA & KOBE (INNOSHIMA)

No. in Survey held at HITACHI IBARAGI & INNOSHIMA Date, First Survey 5TH MARCH 1955 Last Survey 23rd FEBRUARY 1956

Reg. Book. on the Steel Single Screw Steamer "ALEXANDRA I" (Number of Visits 76) Gross 20,926.20 Tons Net 13,523.53

Built at INNOSHIMA, JAPAN By whom built INNOSHIMA SHIPYARD Yard No. 3752 When built 2nd mo. 1956

Engines made at HITACHI IBARAGI By whom made HITACHI WORKS, HITACHI LTD. Engine No. M-148 When made 2nd mo. 1956

Boilers made at HITACHI IBARAGI By whom made HITACHI WORKS, HITACHI LTD. Boiler No. 155450-1 When made 10th mo. 1955

Nominal Horse Power 3,000 Owners LIBERIAN TRANSOCEAN NAVIGATIONAL CORPORATION Port belonging to MONROVIA

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel YAWATA IRON & STEEL MFG. CO., LTD. NAGASAKI STEEL MFG. CO., LTD., NAGASAKI WORKS.

Date of Approval of plan 5TH APRIL 1955 10TH MAY 1955 No. and Description or Type of Boilers 2-BABCOCK & WILCOX INTEGRAL FURNACE TYPE Working Pressure 700 lbs/in^2 Tested by Hydraulic Pressure to 1100 lbs/in^2 Date of Test 7/10/55 19/10/55

No. of Certificate 682 Can each boiler be worked separately YES Total Heating Surface of Boilers 8520 sq. ft. = 17040 sq. ft. S.P.T. 1300 sq. ft. = 2600 sq. ft. ECONOMIZER 4978 sq. ft. = 9956 sq. ft. 4978

Is forced draught fitted YES Area of Fire Grate (coal) in each Boiler —

No. and type of burners (oil) in each boiler 5 — "UNITIP" PRESSURE ATOMISING No. and description of safety valves on each boiler 1-2" dia. DOUBLE LIFT TYPE (Manning Maxwell & Moore (n.c.)) Area of each set of valves per boiler per rule AS APPROVED 0785 $\text{in}^2 \times 2$ Pressure to which they are adjusted 616 lbs/in^2 as fitted + 1287 $\text{in}^2 \times 2$

Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter the donkey boiler — Smallest distance between boilers or uptakes and bunkers or woodwork 2 Meters Height of boiler 16 Feet

Width and length 22 x 18 Feet Steam Drums:—Number in each boiler 1 Inside diameter 48" Thickness of plates TUBE PLATE 4.02" RANGE OF TENSILE STRENGTH 32.2 31.2 31.2 31.7 T/IN^2 SHELL PLATE 1.495" 33.9 33.7 33.9 33.7 T/IN^2 Are drum shell plates welded or flanged WELDED If fusion welded, state name of welding firm HITACHI WORKS, HITACHI LTD. 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 1.25" Pitch of tube holes 1.75" 3.25"

Percentage strength of shell in way of tubes 27.7% 37.5% 37.5% 37.5% Steam Drum Heads or Ends:—Range of tensile strength 32.2 31.5 32.7 T/IN^2 Thickness of plates 2 3/8" Radius or how stayed INSIDE CORNER 10/16" DISHING 3" 4 1/16" Size of manhole or handhole 12" X 16" Water Drums:—Number in each boiler 1 Inside diameter 30" Thickness of plates TUBE PLATE 3/4 32.8 33.5 32.9 T/IN^2 SHELL PLATE 3/2 30.8 Are drum shell plates welded or flanged WELDED If fusion welded, state name of welding firm HITACHI WORKS, HITACHI LTD. 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 1.25" Pitch of tube holes 1.75" 3.25"

Percentage strength of drum shell in way of tubes 27.7% 37.5% 37.5% 37.5% Water Drum Heads or Ends:—Range of tensile strength 34.0 33.4 34.0 33.8 T/IN^2 Thickness of plates 1.77" Radius or how stayed INSIDE CORNER 7/8" DISHING 28.3" Size of manhole or handhole 12" X 16"

Headers or Sections:—Number 3 Material FORGED STEEL Thickness 1 1/16" 1 3/16" Tested by hydraulic pressure to 1100 lbs/in^2

Tubes:—Diameter 1.25" Thickness 0.126" 0.177" 0.238" Number 153 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 2 Inside diameter 7.875" Thickness 1 3/16" Material 1/2% Mo. FORGED STEEL Range of tensile strength 28.2 29 28.2 29 T/IN^2 Are drum shell plates welded or flanged SOLID 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 1.25" Pitch of tube holes 1 7/8" Percentage strength of drum shell in way of tubes 28.5% Drum Heads or Ends:—HEADER END Thickness 1 3/16" Range of tensile strength 31.8 T/IN^2

Radius or how stayed — Size of manhole or handhole 925 mm. square Number, diameter, and thickness of tubes 195 1 1/4" OD. 1/8" T

Tested by hydraulic pressure to 1100 lbs/in^2 Date of test 4-10-55 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" dia. DOUBLE LIFT TYPE (Manning Maxwell & Moore (n.c.)) Area of each set of valves 0785 $\text{in}^2 \times 2$ + 1287 $\text{in}^2 \times 2$ Pressure to which they are adjusted 616 lbs/in^2 Is easing gear fitted YES

Spare Gear. Has the spare gear required by the Rules been supplied YES Temp. 650°F

Director Yard-Manager, Hitachi Shipbuilding & Engr., Co., Ltd., Innoshima Shipyard. The foregoing is a correct description. VICE MANAGER OF HITACHI WORKS, HITACHI LTD. Manufacturer.

Dates of Survey During progress of work in shops 1955:— MAR. 5, APR. 5, 14, 15, 19, 21, 25, 27, 30, MAY. 10, 16, 18, 24, 31, JUN. 4, 7, 9, 11, 14, 16, 18, 21, 23, 25 JUL. 2, 5, 7, 12, 14, 19, 22, 26, 30, AUG. 2, 6, 11, 18, 20, 23, 27, 30, SEP. 1, 3, 6, 13, 17, OCT. 4, 6, 9, 13, 20, 26, NOV. 2, 5, 11, 18, 20, 23, 27, 30, DEC. 4, 6, 11, 18, 20, 23, 27, 30, 1956:— JAN. 2, 5, 11, 18, 20, 23, 27, 30, FEB. 4, 6, 11, 18, 20, 23, 27, 30, 1956:— MAR. 4, 6, 11, 18, 20, 23, 27, 30, APR. 4, 6, 11, 18, 20, 23, 27, 30, MAY. 4, 6, 11, 18, 20, 23, 27, 30, JUN. 4, 6, 11, 18, 20, 23, 27, 30, JUL. 4, 6, 11, 18, 20, 23, 27, 30, AUG. 4, 6, 11, 18, 20, 23, 27, 30, SEP. 4, 6, 11, 18, 20, 23, 27, 30, OCT. 4, 6, 11, 18, 20, 23, 27, 30, NOV. 4, 6, 11, 18, 20, 23, 27, 30, DEC. 4, 6, 11, 18, 20, 23, 27, 30, 1956:— JAN. 4, 6, 11, 18, 20, 23, 27, 30, FEB. 4, 6, 11, 18, 20, 23, 27, 30, MAR. 4, 6, 11, 18, 20, 23, 27, 30, APR. 4, 6, 11, 18, 20, 23, 27, 30, MAY. 4, 6, 11, 18, 20, 23, 27, 30, JUN. 4, 6, 11, 18, 20, 23, 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JUL. 4, 6, 11, 18, 20, 23, 27, 30, AUG. 4, 6, 11, 18, 20, 23, 27, 30, SEP. 4, 6, 11, 18, 20, 23, 27, 30, OCT. 4, 6, 11, 18, 20, 23, 27, 30, NOV. 4, 6, 11, 18, 20, 23, 27, 30, DEC. 4, 6, 11, 18, 20, 23, 27, 30, 1956:— JAN. 4, 6, 11, 18, 20, 23, 27, 30, FEB. 4, 6, 11, 18, 20, 23, 27, 30, MAR. 4, 6, 11, 18, 20, 23, 27, 30, APR. 4, 6, 11, 18, 20, 23, 27, 30, MAY. 4, 6, 11, 18, 20, 23, 27, 30, JUN. 4, 6, 11, 18, 20, 23, 27, 30, JUL. 4, 6, 11, 18, 20, 23, 27, 30, AUG. 4, 6, 11, 18, 20, 23, 27, 30, SEP. 4, 6, 11, 18, 20, 23, 27, 30, OCT. 4, 6, 11, 18, 20, 23, 27, 30, NOV. 4, 6, 11, 18, 20, 23, 27, 30, DEC. 4, 6, 11, 18, 20, 23, 27, 30, 1956:— JAN. 4, 6, 11, 18, 20, 23, 27, 30, FEB. 4, 6, 11, 18, 20, 23, 27, 30, MAR. 4, 6, 11, 18, 20, 23, 27, 30, APR. 4, 6, 11, 18, 20, 23, 27, 30, MAY. 4, 6, 11, 18, 20, 23, 27, 30, JUN. 4, 6, 11, 18, 20, 23, 27, 30, JUL. 4, 6, 11, 18, 20, 23, 27, 30, AUG. 4, 6, 11, 18, 20, 23, 27, 30, SEP. 4, 6, 11, 18, 20, 23, 27, 30, OCT. 4, 6, 11, 18, 20, 23, 27, 30, NOV. 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