

REPORT ON WATER TUBE BOILERS.

No. 895

5c.

20-7-1958. When handed in at Local Office
Hiroshima, Japan

Date, First Survey

Port of

Received at London Office

Shimonoseki.

12th Mar., 1958

Last Survey 10th July, 1958.

(Number of Visits 5)

Gross 8906.05

Net 5414.01

Survey held at
on the M.V. "OCEANIA MARU"

Hiroshima, Japan

Nagasaki, Japan

Osaka, Japan

By whom built Mitsubishi SB & Eng. Co., Ltd., Hiroshima S.Y.

By whom made Mitsubishi SB & Eng. Co., Ltd., Nagasaki S.Y.

By whom made Hiranaka Iron Works Ltd.

Owners Mitsubishi Kaikan K.K.

Yard No. 137

Engine No. 305

Boiler No. H-774

Port belonging to

When built 1958-7

When made 1958-3

When made 1958-2

Tokyo

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Sumitomo Metal Ind. Amagasaki Works

Date of Approval of plan 27th November, 1957. Designed Pressure 11 kg/cm². Tested by Hydraulic Pressure to 20 kg/cm². No. and Description of Type 22-4-58

of Boilers 1 Exhaust gas heated Economizer Working Pressure 7 kg/cm². No. Work with boiler at DB inlet 66 m². Superheaters

No. of Certificate SMK 6061. Can each boiler be worked separately. No. Area of Fire Grate (coal) in each Boiler. No. and description of safety valves on 2720 mm

Half Economisers. Is forced draught fitted. NONE (heated by exhaust gas of main engine). Pressure to which they 2830 mm

No. and type of burners (oil) in each boiler. 1 set single low lift type relief. Area of each set of valves per boiler. In case of donkey boilers state whether steam from main boilers can enter 4380 mm

each boiler. valve dia. 60mm. Are they fitted with easing gear. Yes. Inside diameter.

are adjusted. 10 kg/cm². Smallest distance between boilers or uptakes and bunkers or woodwork. Are drum shell plates welded

the donkey boiler. 1837 mm dia. Steam Drums: Number in each boiler. Range of tensile strength. Have all the requirements of the Rules

Width and length. Thickness of plates. If fusion welded, state name of welding firm. Description of riveting: Circ. seams. Percentage strength of

or flanged. for Class I vessels been complied with. Pitch of rivets. Diameter of tube holes in drum. Pitch of tube holes.

Diameter of rivet holes in long. seams. Rivet. Steam Drum Heads or Ends: Range of tensile strength. Water Drums: Number

long. joint: Plate. Percentage strength of shell in way of tubes. Radius or how stayed. Thickness of plates. Are drum shell plates welded

in each boiler. Inside diameter. If fusion welded, state name of welding firm. Description of riveting: Circ. seams. Have all the requirements of the Rules

welded or flanged. for Class I vessels been complied with. Pitch of rivets. Diameter of tube holes in drum. Thickness of straps. Pitch of tube holes.

Diameter of rivet holes in long. seams. Rivet. Water Drum Heads or Ends: Range of tensile strength. Size of manhole or handhole. 20 kg/cm²

Percentage strength of drum shell in way of tubes. Radius or how stayed. Steel tube Thickness 20 mm. Tested by hydraulic pressure to 20 kg/cm²

Thickness of plates. 2 sets. Material. Steel tube Thickness 22 elements. Number. Steam Dome or Collector: Description of

Headers or Sections: Number 32 mm. Thickness. 2.9 mm. Thickness of shell plates. If fusion welded, state name of welding

Tubes: Diameter 32 mm. Inside diameter. Description of longitudinal joint. Diameter of rivet holes. rivet.

joint to shell. Have all the requirements for the Rules for Class I vessels been complied with. plate. rivet.

strength. firm. Thickness of straps. Percentage strength of long. joint. Radius or how stayed.

Pitch of rivets. Thickness. Inside diameter. Are drum shell plates welded

Crown or End Plates: Range of tensile strength. Number in each boiler. Range of tensile strength. Have all the requirements of the Rules

SUPERHEATER. Drums or Headers: Material. If fusion welded, state name of welding firm. Description of riveting: Circ. seams. Percentage strength of

Thickness. or flanged. for Class I vessels been complied with. Pitch of rivets. Thickness of straps. Pitch of tube holes. Percentage strength of

Diameter of rivet holes in long. seams. Rivet. Drum Heads or Ends: Number, diameter, and thickness of tubes. Range of tensile strength.

long. joint: Plate. drum shell in way of tubes. Size of manhole or handhole. Is a safety valve fitted to each section of the superheater which

Radius or how stayed. Date of test. Is easing gear fitted.

Tested by hydraulic pressure to. No. and description of safety valves. Pressure to which they are adjusted. Yes

of valves. Spare Gear. Has the spare gear required by the Rules been supplied. Yes

The foregoing is a correct description,

T. Kawata

Manufacturer.

HIROSHIMA WORKS
MITSUBISHI SHIPBUILDING & ENGINEERING CO., LTD.

Is the approved plan of boiler forwarded herewith 5

Total No. of visits

Dates of Survey while building

During progress of work in shops - 12-3-58 16-4-58 6-5-58

During erection on board vessel - 10-7-58

M.V. "SHOWA MARU" Rpt 5c 726

Is this boiler a duplicate of a previous case Yes

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

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

The exhaust gas heated Economizer has been constructed and installed under Special Survey in accordance with the Rules, approved plans and Secretary's letters. The material and workmanship are good. The economizer with the donkey boiler was examined under steam during sea (trial, safety valve of economizer adjusted to 142 p.s.i. & found satisfactory.

Survey Fee ... £24,000

Travelling Expenses (if any) £See Rpt. 4b

When received

Engine Surveyor to Lloyd's Register of Shipping.

Date
Committee's Minute

See Rpt. 1



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