

REPORT ON WATER TUBE BOILERS.

No. 2711C

Received at London Office

26 OCT 1958

19th Aug. 1958 When handed in at Local Office 19 Port of YOKOHAMA

of writing Report 19th June, 1957 Date, First Survey 9th Aug. 1958 Last Survey

No. in Survey held at Yokohama, Japan (Number of Visits 64) Gross 26034.19

g. Book. S.S. "RIYADH MARU" Tons 16070.87

on the Nippon Kokan K.K., Yokohama, Japan By whom built Tsurumi Shipyard Yard No. 742 When built 8-1958

ilt at Tokyo, Japan By whom made Ishikawajima Heavy Industries Engine No. IT 2262 When made 3-1958

ines made at Yokohama, Japan By whom made Tsurumi Shipyard Boiler No. B 289 (P) When made 8-1958

ilers made at Owners Nippon Yushutsu Sekiyu Co., Ltd. Port belonging to Tokyo

for Register Book

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Nippon Kokan KK & Japan Steel Works Ltd.,
Mitsubishi Works.

ite of Approval of plan 1-5-57, 26-11-57 No. and Description or Type

Boilers 2-Marine Water Tube Boiler of 2drum with Water Wall 700 Lbs. Tested by Hydraulic Pressure to 1100 Lbs. Date of Test 22-4-58

of Certificate YBC 113A Can each boiler be worked separately Yes Total Heating Surface of Boilers 712x2=1424m² Superheaters 150x2=300m²

alf Economisers None Is forced draught fitted Yes Area of Fire Grate (coal) in each Boiler 744 1488

and type of burners (oil) in each boiler 4-Mechanical Pressure Atomizing Type No. and description of safety valves on

ch boiler 4.5mmx4.5mm Dia. full lift type with 25mm dia. Pilot Valve per rule as approved

70mm and set to lift at 49.3 and 48.9 Area of each set of valves per boiler as fitted 2260.8 mm² Pressure to which they

700 Lbs. 695 Lbs. Are they fitted with easing gear Yes

In case of donkey boilers state whether steam from main boilers can enter

donkey boiler Smallest distance between boilers of 440mm and 400mm Distilled Water Tank 1456mm Height of boiler 6816 mm

width and length About 6400mm & 5298mm Steam Drums: Number in each boiler 1 Inside diameter 1220mm and 1189mm

ickness of plates Shell 31mm Tube 9mm Range of tensile strength (S) 48.6-49.2 kg/mm² (P) 48.8-49.4 kg/mm² Are drum shell plates welded

flanged welded If fusion welded, state name of welding firm Nippon Kokan K.K. Tsurumi Shipyard Have all the requirements of the Rules

Class I vessels been complied with Yes Description of riveting:—Circ. seams — long. seams —

iameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of

ng. joint:—Plate — Rivet — Diameter of tube holes in drum 32.45mm Pitch of tube holes 47.6mm

in coch percentage strength of shell in way of tubes 31.6 % Steam Drum Heads or Ends:—Range of tensile strength (S) 44.8-46.2 (P) 44.8-46.2 kg/mm²

ickness of plates 46mm Radius or how stayed 990mm & 220mm Size of manhole or handhole 305mm x 405mm Water Drums:—Number

each boiler 1 Inside diameter 812mm & 792mm Thickness of plates 2mm Range of tensile strength (S) 47.5-48.6 (P) 47.5-48.6 kg/mm² Are drum shell plates

lded or flanged welded If fusion welded, state name of welding firm Nippon Kokan KK Tsurumi Shipyard Have all the requirements of the Rules

Class I vessels been complied with Yes Description of riveting:—Circ. seams — long. seams —

iameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of

percentage strength of long. joint:—Plate — Rivet — Diameter of tube holes in drum 32.45mm Pitch of tube holes 47.6mm

percentage strength of drum shell in way of tubes 31.6 % Water Drum Heads or Ends:—Range of tensile strength (S) 44.7-44.8 (P) 44.7-44.8 kg/mm²

ickness of plates 32mm Radius of how stayed 660mm and 150mm Size of manhole or handhole 305mm x 405mm

eaders or Sections:—Number 3 Material O.H. Steel Thickness 25mm Tested by hydraulic pressure to 1100 lbs

bes:—Diameter 40mm Thickness 11 B.W.G. (3.048 mm) Number 269 Steam Dome or Collector:—Description of

nt to shell — Inside diameter — Thickness of shell plates — Range of tensile

o.1861length — Description of longitudinal joint — If fusion welded, state name of welding

Have all the requirements for the Rules for Class I vessels been complied with — Diameter of rivet holes —

ch of rivets — Thickness of straps — Percentage strength of long. joint — plate — rivet —

own or End Plates:—Range of tensile strength — Thickness — Radius or how stayed —

SUPERHEATER, Drums or Headers:—Number in each boiler 2 Inside diameter 233 mm

ickness 40mm Material O.H. Steel Range of tensile strength (S) 49.8-47.0 kg/mm² (P) 49.2-46.8 kg/mm² Are drum shell plates welded

flanged Solid If fusion welded, state name of welding firm — Have all the requirements of the Rules

Class I vessels been complied with — Description of riveting:—Circ. seams — long. seams —

iameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of

. joint:—Plate — Rivet — Diameter of tube holes in drum 32.45mm Pitch of tube holes 46mm Percentage strength of

n shell in way of tubes 0.2468 % Drum Heads or Ends:—Thickness 36mm Range of tensile strength 49.4 kg/mm²

ius or how stayed Flat (welded) Size of manhole or handhole 70.6mm x 86.6mm Number, diameter, and thickness of tubes 225 each 1 1/2" (31.75mm) 11 B.W.G.

ted by hydraulic pressure to 1100 lbs. Date of test (S) 28-4-58 (P) 21-4-58 Is a safety valve fitted to each section of the superheater which

be shut off from the boiler No No. and description of safety valves 1-55mm x 55mm Dia. full lift safety valve with pilot valve

alves 2072.4mm² Pressure to which they are adjusted 630 lbs. and set to lift at 44.35kg/cm² Area of each set

Is easing gear fitted Yes

re Gear. Has the spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

H. Tsunuma

VICE DIRECTOR

NEK TSURUMI SHIPYARD

YOKOHAMA, JAPAN

No

1957: Jun. 19, Aug. 10, 19, 29, Sep. 21, 24, 28, Oct. 14, 17, 21

Nov. 2, 6, 8, 15, 16, 19, 20, 22, 25, 29, Dec. 2, 4, 6, 9, 11, 13, 18, 23, 26

1958: Jan. 7, 10, 13, 14, 16, 18, 22, 24, 25, 27, 31, Feb. 10, 12, 14, 21, 24, Mar. 5, 7, 12, 14, 17, 28, Apr. 9, 11, 21, 22, 23, 28

1958: May 14, Jul. 22, 29, Aug. 2, 5, 6, 9

Total No. of visits 64

is boiler a duplicate of a previous case No

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) These Boilers have been constructed under the supervision of the Society's Surveyors in accordance with the Rules, approved plans and Secretary's letters. The quality of workmanship and materials have been found satisfactory. These Boilers have been satisfactorily installed in the vessel and examined under steam. The safety valves adjusted as stated. Accumulation Tests were carried out as per Rules. It is submitted that these boilers are eligible to be classed with this Society with the notation of LMC 8, 58.

Survey Fee ... ¥ 335,200.-

When applied for SEP. 22. 1958

Travelling Expenses (if any) £

When received

TUESDAY 11 NOV 1958

Date

Committee's minute

See Rpt. 1.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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