Rpt. 5c.

REPORT ON ~~WATER TUBE~~ EXHA GAS BOILERS.

No. 1723e

Received at London Office 17 AUG 1955

Date of writing Report 30TH JULY 1955 When handed in at Local Office ..... 19.... Port of YOKOHAMA

No. in Reg. Book. Survey held at YOKOHAMA AND SHIMIZU Date, First Survey 22ND MARCH 1955 Last Survey 23RD JULY 1955

..... on the M.V. "NISSHUN MARU" (Number of Visits 8) Tons { Gross 9998.74 / Net 6235.42

Built at SHIMIZU, JAPAN By whom built NIPPON KOKAN K.K. SHIMIZU SHIPYARD Yard No. 120 When built 7-55

Engines made at OSAKA, JAPAN By whom made HITACHI SHIPBUILDING & ENGINEERING CO. LTD. SAKURAJIMA SHIP YARD Engine No. 2021 When made 4-55

Boilers made at YOKOHAMA, JAPAN By whom made NIPPON KOKAN K.K. SHIMIZU SHIPYARD Boiler No. B187 When made 4-55

Nominal Horse Power ..... Owners NISSAN KISEN K.K. Port belonging to TOKYO

EXHAUST GAS ~~WATER TUBE~~ BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY.—Manufacturers of Steel NIPPON KOKAN K.K. KAWASAKI IRON WORKS

Date of Approval of plan 12-1-55 (KOBE)

of Boilers 1 - MULTI WATER TUBE WITH HEADER Working Pressure 9.5 kg/cm² No. and Description or Type

No. of Certificate YBC 65 Can each boiler be worked separately — Tested by Hydraulic Pressure to 17.75 kg/cm² Date of Test 20-4-55

Is forced draught fitted NO Total Heating Surface of Boilers 80 m² (855 ft²) Area of Fire Grate (coal) in each Boiler —

No. and type of burners (oil) in each boiler —

No. and description of safety valves on each boiler 1 - SPRING LOADED ESCAPE VALVE (DIA. 25 mm) Area of each set of valves per boiler { per rule 369 mm² 2309 / as fitted 490.87 mm² ✓ for 1 valve } Pressure to which they are adjusted 9.7 kg/cm² Are they fitted with easing gear NO 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 Height of boiler 4750 mm

Width and length DIA. 2050 mm **Steam Drums:**—Number in each boiler Inside diameter

Thickness of plates 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:—Circ. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of long. joint:—Plate c 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

Thickness of plates Radius or how stayed Size of manhole or handhole **Water Drums:**—Number in each boiler Inside diameter Thickness of plates 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:—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 Pitch of tube holes

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

Headers or Sections:—Number 2 Material O.H. STEEL (SEAMLESS, SQUARE) Thickness 20 mm Tested by hydraulic pressure to 17.75 kg/cm²

Tubes:—Diameter 32 mm Thickness 2.6 mm Number 22 **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 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:—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 Pitch of tube holes 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

M. Fujita

The foregoing is a correct description, Koichi Koyama Manufacturer.

Dates of Survey while building: During progress of work in shops 1955: MAR. 22. 28. APR 11. 20. 22. During erection on board vessel 1955: JULY 14. 21. 23

Is the approved plan of boiler forwarded herewith NO

Total No. of visits 8

Is this 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, &c. This Exhaust gas Boiler has been constructed under the supervision of the Society's Surveyors in accordance with the Approved plans and the Rules. The quality of workmanship and materials have been found satisfactory. The Exhaust-gas Boiler has been satisfactorily installed in the vessel and examined under steam and the safety valve adjusted as stated. It is submitted that this Exhaust gas Boiler is eligible to be classed with this Society with the notation of DBS 7.5.

Survey Fee ... ... £/24.000.- : When applied for 19

Travelling Expenses (if any) £ : : When received 19

FRIDAY 30 SEP 1955

Date

M. Fujita J. Tsuchida

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute according to plan this See Rpt. 4 C. boiler is fitted with an economiser

15/9/55

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