No. 743

REPORT ON (EXHAUST GAS) WATER TUBE BOILERS.

28 JUN 1952
Received at London Office

...riting Report 2, June 1952 When handed in at Local Office - 19 Port of Kobe, Japan

Survey held at Kobe Date, First Survey Sept. 28, 1951 Last Survey Jan. 28 1952

(Number of Visits 7) Tons Gross 13064.82 Net 9368.29

on the Shingle Screw Steel Vessel, M.V. "SEIHO MARU"

Kobe, Japan By whom built Kawasaki Dockyard Co., Ltd. Yard No. 912 When built Jan. 1952

made at Kobe, Japan By whom made Kawasaki Dockyard Co., Ltd. Engine No. 1134 When made Jan. 1952

made at Kobe, Japan By whom made Kawasaki Dockyard Co., Ltd. Boiler No. 3068 When made Jan. 1952

Horse Power - Owners Iino Kaiun Co., Ltd. Port belonging to Tokyo

...R TUBE BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel Shin Fuso Metal, Steel Tube Works, Amagasaki.

... and Approval of plan No. 44496, 44497 & 44499:- Nov. 13, 1951 **No. and Description or Type**

...rs 1 set, La-Mont Exhaust Gas Steam Generator **Working Pressure** 14.5 kg/cm2 Tested by Hydraulic Pressure to 29 kg/cm2 Date of Test Dec. 3, 51

...ertificate B 327 Can each boiler be worked separately No **Total Heating Surface of Boilers** 1862.19 sq. ft.

...d draught fitted No **Area of Fire Grate (coal) in each Boiler** -

...type of burners (oil) in each boiler Main Engine Exhaust Gas No. and description of safety valves on

...oiler 1 set, ordinary Type Area of each set of valves per boiler {per rule - / as fitted 4417.86 mm2} Pressure to which they

...usted 14.9 kg/cm2 Are they fitted with easing gear No In case of donkey boilers state whether ~~steam~~ water from main boilers can enter

...key boiler - Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler 5,320 mm

...and length Dia. 2,032 mm **Steam Drums:**—Number in each boiler See Cylind. Boiler Report No. 305 & 307 Inside diameter -

...ess of plates - Range of tensile strength - Are drum shell plates welded

...ged - If fusion welded, state name of welding firm - Have all the requirements of the Rules

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

...ter 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 -

...tage strength of shell in way of tubes - **Steam Drum Heads or Ends:**—Range of tensile strength - **Water Drums:**—Number

...ess of plates - Radius or how stayed - Size of manhole or handhole - Are drum shell plates

...h boiler - Inside diameter - Thickness of plates - Range of tensile strength - Have all the requirements of the Rules

...l or flanged - If fusion welded, state name of welding firm - long. seams -

...ass I vessels been complied with - Description of riveting:—Circ. seams - Thickness of straps -

...meter of rivet holes in long. seams - Pitch of rivets - Pitch of tube holes -

...ntage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum -

...ntage strength of drum shell in way of tubes - **Water Drum Heads or Ends:**—Range of tensile strength - Size of manhole or handhole -

...ness of plates - Radius or how stayed -

...ers or Sections:—Number 2 Material Cold drawn Steel Open hearth Thickness 20 mm Tested by hydraulic pressure to 1,500 psi.

...s:—Diameter External 32 mm Thickness 3.5 mm Number 36 set **Steam Dome or Collector:**—Description of

...to shell - Inside diameter - Thickness of shell plates - Range of tensile

...th - 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

...of rivets - Thickness of straps - Percentage strength of long. joint - plate - rivet -

...n or End Plates:—Range of tensile strength - Thickness - Radius or how stayed -

...ERHEATER. Drums or Headers:—Number in each boiler - Inside diameter -

...ness - Material - Range of tensile strength - Are drum shell plates welded

...ged - If fusion welded, state name of welding firm - Have all the requirements of the Rules

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

...eter 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 -

...us or how stayed - Size of manhole or handhole - Number, diameter, and thickness of tubes -

...ed by hydraulic pressure to - Date of test - Is a safety valve fitted to each section of the superheater which

...be shut off from the boiler - No. and description of safety valves - Area of each set

...lves - Pressure to which they are adjusted - Is easing gear fitted -

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

The foregoing is a correct description,

Takeo Morimoto Manufacturer.
Standing Director, Kawasaki Dockyard Co.

...ates of Survey while building: During progress of work in shops - - 1951 - Sep. 28, Oct. 12, 22, Dec. 3, 14, Is the approved plan of boiler forwarded herewith Yes

During erection on board vessel - - - 1952 - Jan. 23, 28. Total No. of visits 7

...is boiler a duplicate of a previous case No If so, state vessel's name and report No. -

...NERAL REMARKS (State quality of workmanship, opinions as to class, &c. The Exhaust Gas Donkey Boiler of this vessel ...as been constructed under Special Survey in accordance with the Rules, Approved Plans and Secretary's letters. The workmanship and Materials are sound and good. The Exhaust Gas Donkey Boiler has been examined under steam, the safety valves were adjusted to 14.9 KG/cm2 and found satisfactory.

Survey Fee ... ... £ (See 4b) : When applied for 19
Travelling Expenses (if any) £ : When received 19

A. Currie & K. Takeuchi
Engineer Surveyor to Lloyd's Register of Shipping.

Date

Committee's Minute See F.E. mchy. rept.