

M.V. "KOTEI MARU"

LONDON

pt. 5b.

REPORT ON BOILERS.

No. FE-5453

Received at London Office

Port of writing Report 19 When handed in at Local Office 19 Port of KOBE

No. in Survey held at Osaka, Japan Date, First Survey 2nd Feb., 1957 Last Survey 22nd Jan., 1958.

g. Book. (Number of Visits 19)

on the Tons { Gross Net

uilt at Nagasaki By whom built Mitsubishi Shipbuilding & Eng., Co., Ltd., Nagasaki Works Yard No. 1499 When built

gines made at By whom made Engine No. When made

ilers made at Osaka, Japan By whom made Hirano Iron Works Co., Ltd. Boiler No. H.806 When made 1958-Jan.

mers Daido Kaiun K.K. Port belonging to Kobe

VERTICAL BOILER.

ade at Osaka By whom made Hirano Iron Works Co., Ltd. Boiler No. H.806 When made Feb. 1958 Where fixed

Manufacturers of Steel Plates: The Yawata Iron & Steel Co., Ltd., Yawata, Tubes: Sumitomo Metal Ind., Ltd., Steel Tube Works, Amagasaki

al Heating Surface of Boiler 80M² Is forced draught fitted Coal or Oil fired Oil

and Description of Boilers 1-Cochran type Working Pressure 7 kg/cm²

sted by hydraulic pressure to 14 kg/cm² Date of test 22nd February, 1958 No. of Certificate 1-47643

ea of fire grate in each Boiler - No. and description of safety valves to each boiler

ea of each set of valves per boiler { per Rule as fitted Pressure to which they are adjusted Are they fitted with easing gear

ate whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

woodwork Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 2400mm Height 5200mm

ell plates: Material Boiler Steel Tensile strength 51.1 - 53.8 kg/mm² Thickness Top, Bot. 16mm Middle 18mm

the shell plates welded or flanged Riveted If fusion welded, state name of welding firm -

ve all the requirements of the Rules for Class I vessels been complied with - Description of riveting: circ. seams { end double zigzag inter double zigzag

Double zigzag with Dia. of rivet holes in { circ. seams 26.5mm 75.4mm g. seams double butt strap Pitch of rivets Top: 85mm Bot: 86mm Percentage of strength of circ. seams { plate rivets

longitudinal joint { plate rivets combined Thickness of butt straps { outer 13mm inner 16mm Shell Crown: Whether complete hemisphere, dished partial

erical, or flat Dished partial Material Boiler steel Tensile strength 46.3-46.4 kg/mm² Thickness 23mm

dius 1900mm Description of Furnace: Plain, spherical, or dished crown Spherical Material Boiler steel

nsile strength 46.7 - 46.9 kg/mm² Thickness 18mm External diameter { top bottom Length as per Rule -

ch of support stays circumferentially - and vertically - Are stays fitted with nuts or riveted over -

ameter of stays over thread - Radius of spherical or dished furnace crown 1038mm

ickness of Ogee Ring 32mm Diameter as per Rule { D 2400mm d 1981mm

mbustion Chamber: Material - Tensile strength - Thickness of top plate -

dius if dished - Thickness of back plate - Diameter if circular -

ngth as per Rule - Pitch of stays -

e stays fitted with nuts or riveted over - Diameter of stays over thread -

Boiler steel

be Plates: Material { front back Tensile strength { 43.8-44.4 kg/mm² 46.7-46.8 kg/mm² Thickness { 30mm 30mm Mean pitch of stay tubes in nests 247.5mm

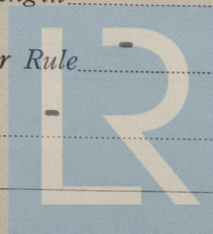
omprising shell, dia. as per Rule { front back Pitch in outer vertical rows { 210mm 210mm Dia. of tube holes FRONT { stay 70mm plain 67mm BACK { stay 65mm plain 66mm

ach alternate tube in outer vertical rows a stay tube Yes

lers to Combustion Chamber Tops: Material - Tensile strength -

th and thickness of girder at centre - Length as per Rule -

ance apart - No. and pitch of stays in each -



© 2021

Lloyd's Register
Foundation

012711-012715-0122

Crown Stays: Material - Tensile strength - Diameter { at body of stay - or over threads -
No. of threads per inch - Screw Stays: Material - Tensile strength -
Diameter { at turned off part - or over threads - No. of threads per inch - Are the stays drilled at the outer ends -
Tubes: Material O.H. Steel External diameter { plain 65mm Thickness { 3.5mm stay 65mm 8 mm
No. of threads per inch 9 Pitch of tubes 95mm x 105mm
Manhole Compensation: Size of opening in shell plate 305mmx405mm Section of compensating ring - No. of rivets and diameter of rivet holes - Outer row rivet pitch at ends - Depth of flange if manhole flanged 85mm
Uptake: External diameter - Thickness of uptake plate -
Cross Tubes: No. - External diameters { - Thickness of plates -
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,

T. Ueda Manufacturer
HIRANO IRON WORKS CO., LTD.

Dates of Survey { During progress of work in shops - 1957: Feb. 2, 4, 19 Mar. 27, Apr. 25, 30, July 29, Sep. 2, Oct. 5, 12 Is the approved plan of boiler forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - 1957: Nov. 11, Dec. 21, 28, 1958: Jan. 7, 9, 10, 12, 16, 22 Total No. of visits 19 (Kobe)

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. m.v. "KOCHU MARU"

GENERAL REMARKS (State quality of workmanship, opinions as to class, & c.)
The boiler has been constructed Special Survey in accordance with the Rules, Approved Plans and Secretary's letters.
The material and workmanship are sound and good.
The boiler has been examined under hydraulically and found satisfactory.

	Charge No.	Roll No.	Maker
Top shell plate	S64407	R2880	The Yawata Iron & Steel Co., Ltd., Yawata
Bot. shell plate	"	R2981	"
Middle shell plate	"	2878	"
Inn. Butt strap	"	2879	"
Out. Butt strap	"	2981	"
Shell Crown	"	2877	"
Front tube plate	S64129	2322	"
Back tube plate	D25133	3061	"
Furnace	S64129	2321	"
Ogee ring	"	2318	"
	"	2345	"

Survey Fee ... £27,000.- When applied for FEB. 20. 1958 19
Travelling Expenses (if any) £ 2,160.- When received 19

FRIDAY - 5 SEP 1958

Date
Committee's Minute See Rpt. 1.

Engineer Surveyor to Lloyd's Register of Shipping.
© 2021
Lloyd's Register Foundation