

REPORT ON BOILERS.

K O B E

No. 4828

K O B E AUG. 1 - 1957

Received at London Office

writing Report 19 When handed in at Local Office 19 Port of Kobe.
 in Survey held at Osaka, Japan. Date, First Survey 2nd Feb., 1957 Last Survey 17th June, 1957
 on the M.V. "KOHOH MARU" (Number of Visits 15 K O B E Tons { Gross 9,208 Net 5,350
 at Nagasaki By whom built Mitsubishi Zosen K.K. Nagasaki Works Yard No. 1497 When built 1957-10
 es made at Nagasaki By whom made Mitsubishi Zosen K.K. Nagasaki Works Engine No. 299 When made 1957-10
 s made at Osaka, Japan By whom made Hirano Iron Works Co., Ltd. Boiler No. H.662 When made 1957-6
 s Daido Kaiun K. K. Port belonging to Kobe

FICAL BOILER.

Mater at Osaka. By whom made Hirano Iron Works, Co. Boiler No. H.662 When made Jan., 57 Where fixed
 and purpacturers of Steel Plates-Yawata Iron & Steel Co., Ltd., Yawata Tubes-Sumitomo Metal Ind., Ltd., Amagasaki

Heating Surface of Boiler 80m² Is forced draught fitted ☒ Coal or Oil fired Oil
 and Description of Boilers One-Cochran Donkey Boiler Working Pressure 7 kg/cm²
 by hydraulic pressure to 14 kg/cm² Date of test 17th June, 1957 No. of Certificate I-42820
 of fire grate in each Boiler -- No. and description of safety valves to each boiler
 of each set of valves per boiler { per Rule as fitted Pressure to which they are adjusted Are they fitted with easing gear

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

plates: Material Boiler steel Tensile strength 51.1--53.6 kg/mm² Thickness Middle 18mm
 ve shell plates welded or flanged No. If fusion welded, state name of welding firm --

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 double butt strap Dia. of rivet holes in { circ. seams 26.5mm Pitch of rivets { Top 75.4mm Percentage of strength of circ. seams { plate 64.9% rivets 72.25%
 seams { long. seams 23mm Bot 86mm

longitudinal joint { plate 73.25% rivets 89.4% Thickness of butt straps { outer 13mm inner 16mm Shell Crown: Whether complete hemisphere, dished partial
 al, or flat Dished partial Material Boiler steel Tensile strength 46.9--47.2 kg/mm² Thickness 23mm
 1900mm spherical

Manufact strength 46.1--47.6 kg/mm² Thickness 18mm External diameter { top - bottom - Length as per Rule -

f support stays circumferentially - and vertically - Are stays fitted with nuts or riveted over -
 er of stays over thread - Radius of spherical or dished furnace crown 1038mm

retary's sully as p ess of Ogee Ring 32mm Diameter as per Rule { D 2400mm d 1981mm

stion Chamber: Material - Tensile strength - Thickness of top plate -
 if dished - Thickness of back plate - Diameter if circular -

as per Rule - Pitch of stays -
 ys fitted with nuts or riveted over - Diameter of stays over thread -

plates: Material { front Boiler steel Tensile strength { 46.5 kg/mm² Thickness { 30mm Mean pitch of stay tubes in nests 247.5mm
 back " " 46.7-46.8 kg/mm² 30mm

rising shell, dia. as per Rule { front Pitch in outer vertical rows { Dia. of tube holes FRONT { stay 69.75mm plain 67mm BACK { stay 64.75mm plain 65mm

Lloyd's alternate tube in outer vertical rows a stay tube

to Combustion Chamber Tops: Material Tensile strength
 and thickness of girder at centre Length as per Rule

er full apart No. and pitch of stays in each

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 stay 65mm Thickness { 3.5mm 8mm

No. of threads per inch 9 Pitch of tubes Vertical 105mm x Horizontal 95mm

Manhole Compensation: Size of opening in shell plate 305mm x 405mm 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,

J. Ueda Manufacture
HIRANO IRON WORKS CO., LTD.

Dates of Survey { During progress of work in shops -- 2nd, 4th, & 19th Feb., 22nd Mar., 25th & 30th Apr., 16th, 18th, 20th, 22nd & 30th May, 1st, 5th, 6th, 8th & 17th June, 1957
while building { During erection on board vessel ---

Is the approved plan of boiler forwarded herewith 18th June, 1957 (If not state date of approval.)

Total No. of visits 15 (Kobe)

Is this Boiler a duplicate of a previous case Yes. If so, state Vessel's name and Report No. Ship No. 1485

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

			Inspection No.	Charge No.	Test piece No.	
Inner Butt strap	16x2400x8000	1/3	R2880	S64407	2435	Yawata Iron & Steel Co., Ltd., Yawata
Top shell plate						
Bot. shell plate	16x2500x8000	1	R2942	"	2470	"
Middle shell plate	18x1650x7650	1/3	R2878	"	2428	"
	"	1/3	R2879	"	2429	"
Outer Butt strap	13x1800x10000	1/3	R2877	"	2427	"
Front tube plate	30x2500x3600	1	R2351	S64129	2004	"
Back tube plate	30x2450x3150	1	R2348	"	2005	"
Shell crown	23x1700x6800	1	R2319	"	2011	"
Furnace crown	19x1500x9300	1/3	R2317	"	2012	"
	19x1750x9300	1/3	R2318	"	2013	"
Ogee ring	32x2250x8500	1/3	R2345	S64129	2006	"

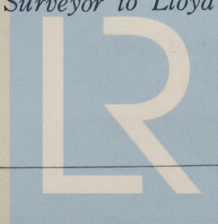
Survey Fee ... K O B E £ 27,000 } When applied for AUG - 2 1957

Travelling Expenses (if any) £ 1,500 } When received 19

TUESDAY 31 DEC 1957

Date
Committee's Minute
See Rpt. 1.

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation