

REPORT ON BOILERS.

No. FE-8875

Date of writing Report 28th March 1961

Received at London Office

When handed in at Local Office

Port of KOBE

No. in Survey held at
Reg. Book.

Date, First Survey 9th July, 1960

Last Survey 26th October 1960

on the

(Number of Visits 11)

Tons { Gross
Net

Built at Hiroshima

By whom built Mitsubishi Shipbuilding & Eng.,
Co., Ltd., Hiroshima Works

Yard No. 144

When built Aug., 1960

Engines made at

By whom made

Engine No.

When made

Boilers made at Osaka, Japan

By whom made Hirano Iron Works Co.

Boiler No. H1220

When made Aug., 1960

Owners

Port belonging to

VERTICAL BOILER.

Made at Osaka

By whom made Hirano Iron Works Co.

Boiler No. H 1220

When made Aug. 1960

Where fixed Osaka

Tubes:- Nippon Tokushu Tube Co., Ltd., Tokyo Works.

Manufacturers of Steel:- Kawasaki Steel & Amagasaki Steel Mfg., & Japan Steel Works, Muroran Plant

Total Heating Surface of each Boiler 60.04 M²

Is forced draught fitted

Coal or Oil fired Oil

No. and Description of Boilers One (1) Cochran Type Donkey Boiler

Tested by hydraulic pressure to 14 kgs/cm²

Date of test 25th August, 1960

Working Pressure 7 kgs/cm²

Area of fire grate in each Boiler

No. and description of safety valves to each boiler

No. of Certificate 1-66053

Area of each set of valves per boiler { per Rule
as fitted

Pressure to which they are adjusted

Are they fitted with easing gear

State whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

or 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

Height

Shell plates: Material Boiler Steel

Upper Middle

Tensile strength 47.3 kg/mm² 51.1 kg/mm²Lower 54.0 kg/mm²

Thickness 14mm

Are the 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

Double zigzag
Double butt straplong. seams Double zigzag
Double butt strapDia. of rivet holes in { circ. seams 23mm
long. seams 20mmPitch of rivets { 68.77mm
84 mmThickness of butt straps { outer 14mm
inner 14mm

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial

Radius 1600mm

Material Boiler Steel

Tensile strength 44.7 kg/mm²

Thickness 22mm

Description of Furnace: Plain, spherical, or dished crown Spherical

Material

Boiler Steel

Tensile strength 45.9 kg/mm²

Thickness 15mm

External diameter { top -
bottom -

Length as per Rule -

Pitch of support stays circumferentially -

and vertically -

Are stays fitted with nuts or riveted over

Diameter of stays over thread -

Radius of spherical or dished furnace crown 865mm

850 mm

Thickness of Ogee Ring 22 mm

Diameter as per Rule { D 2000mm
d 1728mm

Combustion Chamber: Material -

Tensile strength -

Thickness of top plate -

Radius if dished -

Thickness of back plate -

Diameter if circular -

Length as per Rule -

Pitch of stays -

Are stays fitted with nuts or riveted over -

Diameter of stays over thread -

Tube Plates: Material { front Boiler steel
back Boiler steelTensile strength { 45.8 kg/mm²
44.4 kg/mm²Thickness { 25mm
25mm

Mean pitch of stay tubes in nests 317mm

comprising shell, dia. as per Rule { front -
back -Pitch in outer vertical rows { 188mm
188mmDia. of tube holes FRONT { stay 71mm
plain 66mmBACK { stay 65mm
plain 65mm

each alternate tube in outer vertical rows a stay tube

Yes

Girders to Combustion Chamber Tops: Material -

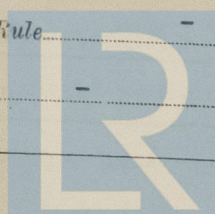
Tensile strength -

Depth and thickness of girder at centre -

Length as per Rule -

Distance apart -

No. and pitch of stays in each -



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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..... 88 x 94mm.....

Manhole Compensation: Size of opening in shell plate..... 305 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,

T. Ueda

Manufacturer.

Hirano Iron Works Co.

Dates of Survey while building { During progress of work in shops - - 1960:-July 9,23, Aug.1,4,8,13,20,21,25, 27, Oct. 26 Is the approved plan of boiler forwarded herewith (If not state date of approval.) Total No. of visits 11

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

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.

The boiler was examined under hydraulically and found satisfactory.

Description	Roll No. Inspection No. Plate No.	Charge No.	Name of Maker
Shell Crown	OH 7656	C3-7354	Kawasaki Steel Corporation.
Upper Shell	OJ 7906	C2-7547	Do.
Middle Shell	OJ 5760	C3-7402	Do.
Lower Shell	1/2	35E721	Japan Steel Works, Muroan.
Tube plate (Front)	OH 7795	C3-7354	Kawasaki Steel Corporation.
Tube plate (Back)	OH 7791	C3-7354	Do.
Furnace Crown	OH 7655B	C3-7354	Do.
Ogee-ring	OH 5038A	C2-7480	Do.
Outer butt-strap	1/2	35E721	Japan Steel Corporation.
Inner butt-strap	1/2	35E721	Do.

Survey Fee ... £ 22,500. - When applied for APR 10 1961 19

Travelling Expenses (if any) £ 3,500. - When received 19

Date FRIDAY - 4 AUG 1961

Committee's Minute

Engineer Surveyor to Lloyd's Register of Shipping.



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