

REPORT ON BOILERS.

No. 7408

Received at London Office

10 AUG 1931

Date of writing Report 14-7-31 19 When handed in at Local Office 16-7-31 19 Port of Kobe

No. in Survey held at Kobe Date, First Survey 23rd April Last Survey 29-6-31 19
Reg. Book

on the Steel screw driven ship "KIRISHIMA MARU"

(Number of Visits 5) Gross Tons Net

Built at Kobe By whom built Kawasaki Dockyard Ltd. Yard No. 563 When built 1930/31
Engines made at Augsburg By whom made M.A.N. Engine No. 330570 When made 1930/31
Boilers made at Lincoln By whom made Babcock & Wilcox Ltd. Boiler No. 734619 When made 1930
Owners Kokusai Kisen Kaisha Ltd. Port belonging to Yokohama

VERTICAL DONKEY BOILER.

Made at Lincoln By whom made Babcock & Wilcox Ltd. Boiler No. 734619 When made 1930 Where fixed aft and C.R. turn duct
Manufacturers of Steel (See Grimsby Report N° 17199)

Total Heating Surface of Boiler Is forced draught fitted Coal or Oil fired kerosene gas
No. and Description of Boilers One Clarkson Patent Waste Heat Boiler Working pressure 100 lbs.
Tested by hydraulic pressure to Date of test No. of Certificate

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Double Spring 2 1/2" dia each.
Area of each set of valves per boiler { per rule 7.170" as fitted 9.810" Pressure to which they are adjusted 100 lbs Are they fitted with easing gear yes
State whether steam from main boilers can enter the donkey boiler Boiler fitted turn duct aft and C.R. 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 no Largest internal dia. of boiler Height

Shell plates: Material Tensile strength Thickness

Are the shell plates welded or flanged Description of riveting: circ. seams { end inter. long. seams

Dia. of rivet holes in { circ. seams Pitch of rivets { Percentage of strength of circ. seams { plate rivets of Longitudinal joint { plate rivets combined.

Working pressure of shell by rules Thickness of butt straps { outer inner

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

Tensile strength Thickness Radius Working pressure by rules

Description of Furnace: Plain, spherical, or dished crown Material Tensile strength

Thickness External diameter { top bottom Length as per rule Working pressure by rules

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 Working pressure by rule

Thickness of Ogee Ring Diameter as per rule { D d Working pressure by rule

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius if dished Working pressure by rule 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 Working pressure of back plate by rules

Tube Plates: Material { front back Tensile strength { Thickness { Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule { front back Pitch in outer vertical rows { Dia. of tube holes FRONT { stay plain BACK { stay plain

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules { front back

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 Working pressure by rule

Crown stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____
or
over threads _____

No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____

Screw stays: Material _____ Tensile strength _____ Diameter { at turned off part, _____
or
over threads _____ No. of threads per inch _____

Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____

Tubes: Material _____ External diameter { plain _____
stay _____ Thickness { _____

No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____

Manhole Compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and diameter
of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____

Uptake: External diameter _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with *yes*

The foregoing is a correct description,

Manufacturer: _____

Dates { During progress of _____
of Survey { work in shops - -
while { During erection on _____
building { board vessel - -

April 23rd May 6th 15th June 15th 29th

Is the approved plan of boiler forwarded herewith _____
(If not state date of approval.)

Total No. of visits *5*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

*This boiler has been efficiently installed in the hull and the safety valves
adjusted under steam to 100 lbs per sq. inch and eligible in my opinion to
have used of 0.13.100 lbs. (See Gunnsby Report N° 17199)*

Survey Fee £ : : } When applied for, 19

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

Committee's Minute _____

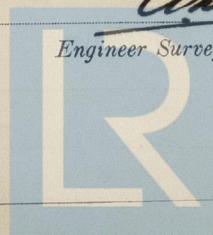
Assigned _____

TUE. 18 AUG 1931

See F.C. Rep.

A. J. Morrison

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
Foundation

Is a Report also sent on the Hull of the Ship? If not, state whether, and when, one will be sent