

REPORT ON BOILERS.

No. 8981

Received at London Office

11 APR 1935

Date of writing Report

192

When handed in at Local Office

192

Port of

KOBE.

No. in Survey held at
Reg. Book.

Date, First Survey

5-7-34.

Last Survey

9-2-

1935.

Bottom

on the

MOTOR VESSEL "KONGO MARU"

(Number of Visits 8.)

 Tons { Gross 7061.
Net 3761.

Master

Built at

HARIMA

By whom built

HARIMA S.B. & ENG CO LTD

Yard No. 205.

When built 1935.

Engines made at

KOBE.

By whom made

KAWASAKI DOCKYARD CO LTD

Engine No. 1600.

When made 1935.

Boilers made at

HARIMA.

By whom made

HARIMA S.B. & ENG CO LTD

Boiler No.

When made 1935.

Nominal Horse Power

2115.

Owners

KOKUSAI KISEN KABUSHIKI KAISHA.

Port belonging to

TOKIO.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel THE STEEL COMPANY OF SCOTLAND LD. & KAWASAKI DOCKYARD CO LD.

(Letter for Record (S))

Total Heating Surface of Boilers EXHAUST GAS 218 M² OIL FUEL 103 M² Is forced draught fitted

Coal or Oil fired OIL FUEL & EXHAUST GAS.

No. and Description of Boilers

ONE SINGLE ENDED MULTITUBULAR.

Working Pressure

7 KG/CM² = 100 lb.Tested by hydraulic pressure to 14 KG/CM². Date of test 2-11-34. No. of Certificate 4290. Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

TWO SPRING LOADED.

Area of each set of valves per boiler { per Rule 27.96.0"
as fitted 31.80." Pressure to which they are adjusted 7 KG/CM² Are they fitted with easing gear YES.

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork FITTED IN TWEEN DECK. Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated YES.

Largest internal dia. of boilers

3800 MM.

Length

3550.

Shell plates: Material STEEL.

Tensile strength 44-50.

Thickness

22 MM.

Are the shell plates welded or flanged

NO.

Description of riveting: circ. seams { end D.R.L.
inter.

Long. seams

T.R.D.B.S.

Diameter of rivet holes in { circ. seams 24 MM
long. seams 24 MM.Pitch of rivets { 75 MM
166 MM.Percentage of strength of circ. end seams { plate 68.
rivets 44.9.Percentage of strength of circ. intermediate seam { plate
rivetsPercentage of strength of longitudinal joint { plate 85.5.
rivets 94.6.
combined 90.0.

Working pressure of shell by Rules

10.5 KG/CM².Thickness of butt straps { outer 19 MM
inner 22 MM.

No. and Description of Furnaces in each Boiler

TWO MORISON TYPE CORRUGATED.

Material

STEEL.

Tensile strength

41-47.

Smallest outside diameter

1099 MM.

Length of plain part { top 198 MM
bottom 198 MM.Thickness of plates { crown 16 MM
bottom 16 MM.

Description of longitudinal joint WELDED.

Dimensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

14.9 KG/CM².

End plates in steam space: Material

STEEL.

Tensile strength

41-47.

Thickness

25 MM.

Pitch of stays 360 MM.

How are stays secured

DOUBLE NUTS & WASHERS.

Working pressure by Rules

11.3 KG/CM².Tube plates: Material { front STEEL
back STEEL.Tensile strength { 41-47.
41-47.Thickness { 22 MM
19 MM.

Lean pitch of stay tubes in nests

277 MM.

Pitch across wide water spaces

350 MM.

Working pressure { front 10.85 KG/CM²
back 11.8 KG/CM².

Girders to combustion chamber tops: Material

STEEL.

Tensile strength

41-47.

Depth and thickness of girder

at centre 200 x 19 MM.

Length as per Rule

217 MM.

Distance apart

300 MM.

No. and pitch of stays

at each 2 x 200 MM.

Working pressure by Rules

11.4 KG/CM².

Combustion chamber plates: Material

STEEL.

Tensile strength 41-47.

Thickness: Sides

16 MM.

Back

14 MM.

Top

16 MM.

Bottom

19 MM.

Pitch of stays to ditto: Sides

300 x 200 MM.

Back

200 x 240 MM.

Top 300 x 200 MM. Are stays fitted with nuts or riveted over

NUTS.

Working pressure by Rules

9.6 KG/CM².

Front plate at bottom: Material

STEEL.

Tensile strength

41-47.

Thickness

22 MM.

Lower back plate: Material

STEEL.

Tensile strength

41-47.

Thickness

22 MM.

Pitch of stays at wide water space

350 x 200 MM.

Are stays fitted with nuts or riveted over

NUTS.

Working Pressure

11.4 KG/CM².

Main stays: Material

STEEL.

Tensile strength

44-50.

At body of stay,
or
Over threads

2 1/2".

No. of threads per inch

6.

Area supported by each stay

795 x 360 MM.

Working pressure by Rules

12.5 KG/CM².

Screw stays: Material

STEEL.

Tensile strength

44-50.

At turned off part,
or
Over threads

1 3/4", 1 1/2", 1 5/8".

No. of threads per inch

9.

Area supported by each stay

200 x 240 MM.

Lloyd's Register
Foundation