

REPORT ON BOILERS.

No. 4538

Received at London Office

29 SEP 1924

Date of writing Report 12th Aug. 1924 When handed in at Local Office 19 Port of Kobe

No. in Survey held at Osaka Date, First Survey — Last Survey 24th July 1924

Reg. Book. — (Number of Visits —) Gross Tons 1924
 on the S.S. "KOJUN MARU" Net Tons 1188

Master — Built at Osaka By whom built Osaka Iron Works When built 1924

Engines made at Osaka By whom made Osaka Iron Works When made 1924

Boilers made at Osaka By whom made Osaka Iron Works When made 1924

Registered Horse Power — Owners Kiyoumi Shoji K.K. Port belonging to Kobe

MULTITUBULAR BOILERS—MAIN, ~~SUPPLEMENTARY OR DONKEY~~—Manufacturers of Steel Steel Co. of Scotland Ltd. South Durham
Steel & Iron Co. Leeds Forge Co.
Kangarshire Steel Co.

(Letter for record S.) Total Heating Surface of Boilers 3013 ²⁵⁸ ~~sq. ft.~~ Is forced draft fitted Yes No. and Description of Boilers 2 S.F. Multitubular Working Pressure 200 lbs. Tested by hydraulic pressure to 350 lbs. Date of test 9-6-24

No. of Certificate 502 ^{A.} ~~B.~~ Can each boiler be worked separately Yes Area of fire grate in each boiler 39.4 ~~sq. ft.~~ No. and Description of safety valves to each boiler 2 spring loaded Area of each valve 2 1/2 ~~sq. in.~~ Pressure to which they are adjusted 205 lbs.

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 18 ~~in.~~ Mean dia. of boilers 12'-3" Length 11'-0"

Material of shell plates O.H. Steel Thickness 1/8 ~~in.~~ Range of tensile strength 28-35 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R. Lap long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 1/4 ~~in.~~

Lap of plates or width of butt straps 1 3/4 ~~in.~~ Per centages of strength of longitudinal joint rivets 92.0 Working pressure of shell by rules 202 ~~lbs.~~ Size of manhole in shell 2 1/2 x 17 1/2 Size of compensating ring 9 7/8 x 1 1/8 No. and Description of Furnaces in each boiler 2 Daughters Material O.H. Steel Outside diameter 4 1/4 Length of plain part — Thickness of plates crown 5/8 bottom 5/8

Description of longitudinal joint Weld No. of strengthening rings — Working pressure of furnace by the rules 206 Combustion chamber plates: Material Steel Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 7/8 Pitch of stays to ditto: Sides 7 x 7 1/2 Back 8 x 8

Top 7 x 8 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 211 ~~lbs.~~ Material of stays Steel Area at smallest part 1.73 Area supported by each stay 64 ~~sq. in.~~ Working pressure by rules 238 End plates in steam space: Material Steel Thickness 1 3/32

Pitch of stays 17 x 16 1/2 How are stays secured D.N. & W. Working pressure by rules 247 Material of stays Steel Area at smallest part 6.10

Area supported by each stay 280 ~~sq. in.~~ Working pressure by rules 240 Material of Front plates at bottom Steel Thickness 7/8 Material of Lower back plate Steel Thickness 1 3/16 Greatest pitch of stays 14 x 8 Working pressure of plate by rules 206 Diameter of tubes 3

Pitch of tubes 4 5/16 x 4 5/8 Material of tube plates Steel Thickness: Front 7/8 Back 1 3/16 Mean pitch of stays 9.5 Pitch across wide water spaces 13 1/2 ~~in.~~ Working pressures by rules 241 ~~lbs.~~ Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2 x 1 3/16 x 2 Length as per rule 2'-6 1/8 Distance apart 8 1/2 Number and pitch of Stays in each 3 @ 7

Working pressure by rules 227 Steam dome: description of joint to shell — % of strength of joint —

Diameter — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet holes —

Pitch of rivets — Working pressure of shell by rules — Crown plates — Thickness — How stayed —

UPERHEATER. Type — Date of Approval of Plan — Tested by Hydraulic Pressure to —

Date of Test — Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler —

Diameter of Safety Valve — Pressure to which each is adjusted — Is Easing Gear fitted —

The foregoing is a correct description,
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 AUG 29 1924
 OSAKA IRON WORKS LTD.
 大阪鐵廠株式會社

Dates of Survey — During progress of work in shops — Included in engine report — Is the approved plan of boiler forwarded here —
 while building — During erection on board vessel — Total No. of visits —

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
These boilers have been constructed and tested in accordance with the requirements of the Rules and the approved plans. The materials & workmanship are good. The boilers have been satisfactorily fitted on board.

Survey Fee ... £ — : } When applied for, — 19...
 Travelling Expenses (if any) £ — : } When received, — 19...

Committee's Minute — FRI. 3 OCT 1924

Assigned —
L. H. F. Young 4/20/21
 Engineer Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation
 009505-001513-0181