

Received at London Office -8 FEB 1934

of writing Report	6-1-34	19	When handed in at Local Office	13-1-34	19	Port of	Kobe
in	Survey held at	Tama	Date, First Survey	23-6-33	Last Survey	10-12-33	19
Book.	on the	Steel Screw Propeller Ship "AMAGISAN MARU"	(Number of Visits	7	Tons	Gross 7624	Net
at	Tama	By whom built	Inoue Gintani Bussan Kaisha	Yard No.	196	When built	1933
nes made at	Tama	By whom made	" " " "	Engine No.	196	When made	1933
rs made at	Tama	By whom made	" " " "	Boiler No.	196	When made	1933
ers	Inoue Gintani Bussan Kaisha	Port belonging to	Kobe				

RTICAL DONKEY BOILER.

e at Tama By whom made Winstan Burman Kancha Boiler No. 196 When made 1933 Where fixed E.R. Bottom Platform
 ufacturers of Steel Imms Appleby Iron Company Ltd. Scunthorpe,
 Heating Surface of Boiler 710 sq Is forced draught fitted no Coal or Oil fired oil
 and Description of Boilers Vertical Locomotive Type Working pressure 120 lbs.
 ed by hydraulic pressure to 230 lbs. Date of test 25-11-33 No. of Certificate 3859
 of Firegrate in each Boiler Oil fired No. and Description of safety valves to each boiler Two Spring Loaded 2 1/2" dia.
 of each set of valves per boiler { per rule 7.80 Pressure to which they are adjusted 120 lbs Are they fitted with easing gear yes
 as fitted 9.80
 whether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkers
 Is oil fuel carried in the double bottom under boiler no Smallest distance between base of boiler and tank top plating
3'-2 1/2" Is the base of the boiler insulated yes Largest internal dia. of boiler 7'-6" Height 16'-3"
 plates: Material O.H. Steel Tensile strength 28-32 Tons Thickness 5/8"
 the shell plates welded or flanged no Description of riveting: circ. seams { end D.R. Lap long. seams T.R. Lap
 inter. " "
 of rivet holes in { circ. seams 15/16" Pitch of rivets { 2 7/8" Percentage of strength of circ. seams { plate 67.4 of Longitudinal joint { plate 73.2
 long. seams 15/16" { 3 3/8" { rivets 63.1 { rivets 77.7
 combined "
 rking pressure of shell by rules 145 lbs Thickness of butt straps { outer "
 inner "
 Crown: Whether complete hemisphere, dished partial spherical, or flat Dished Material Steel
 Tensile strength 26-30 Tons Thickness 3/4" Radius 5'-6" Working pressure by rules 136 lbs.
 Description of Furnace: Plain, spherical, or dished crown Spherical Material Steel Tensile strength 26-30 Tons
 Thickness 3/4" External diameter { top " Length as per rule - Working pressure by rules 160 lbs
 bottom 6'-7"
 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 3'-2 3/4" Working pressure by rule 160 lbs
 Thickness of Ogee Ring 1" Diameter as per rule { D 90" Working pressure by rule 136 lbs.
 a 79"
 Combustion Chamber: Material - Tensile strength - Thickness of top plate -
 Diameter 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 -
 Stays: Material { front Steel Tensile strength { 26-30 Tons Thickness { 1" Mean pitch of stay tubes in nests 10.875"
 back " { 3.625" Dia. of tube holes FRONT { stay 2 1/2" BACK { stay "
 comprising shell, Dia. as per rule { front 3.625" { plain 2 1/2" { plain "
 back 3.625"
 each alternate tube in outer vertical rows a stay tube yes Working pressure by rules { front 164 lbs
 back 164 lbs
 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 *Draught Iron* External diameter { plain *2 1/2* stay *2 1/2* Thickness { *101.89* *5/16* " *1/4* " No. of threads per inch *9* Pitch of tubes *3 5/8* " - *3 5/8* " Working pressure by rules *128.3* lbs.

Manhole Compensation: Size of opening in shell plate *11" x 15"* Section of compensating ring *15" x 625* " No. of rivets and di of rivet holes *48 @ 1 5/16* " Outer row rivet pitch at ends Depth of flange if manhole flanged *3 1/2* "

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,

P. K. K. K. Manufa

Dates of Survey while building { During progress of work in shops - *1933 June 28-30. Oct. 10-14-31* During erection on board vessel - *29-11-33 20-12-33*

Is the approved plan of boiler forwarded herewith (If not state date of approval) *4-10-31*

Total No. of visits *7*

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

This boiler has been constructed under special survey in accordance with the Rules and approved plan: the materials and workmanship are good. The boiler was tested by hydraulic pressure to 230 lbs per square inch and found tight and sound and afterwards apparently installed in the vessel and the safety valves adjusted to steam to 120 lbs per sq. inch. The boiler is eligible, in my opinion, to have the record of D.B 120 lbs.

Survey Fee ... £ *6-6-0* When applied for, *8th Jan 1934*
Travelling Expenses (if any) £ *✓* When received, *12th Jan 1934*

Committee's Minute *JVE. 13 FEB 1934*

Assigned

See other Rpt. Kob 8467