

REPORT ON BOILERS.

No. 2121

Received at London Office 3-JUN1954

Writing Report 19... When handed in at Local Office MAY 27, 1954 19... Port of Kobe

Survey held at Tamano, Japan Date, First Survey 20th Nov., 1953 Last Survey 19th March, 1954

on the Steel Single Screw Motor Ship "HAKONESAN MARU" (Number of Visits 11) Tons { Gross 6927.05 Net 3838.75

at Tamano, Japan By whom built Mitsui Shipbuilding & Engineering Co., Ltd. Yard No. 580 When built Mar. 1954

Plates made at Tamano, Japan By whom made Mitsui Shipbuilding & Engineering Co., Ltd. Engine No. 505 When made Mar. 1954

Rivets and bolts made at Tamano, Japan By whom made Mitsui Shipbuilding & Engineering Co., Ltd. Boiler No. 252 When made Mar. 1954

Boiler made at Mitsui Sempaku K.K. Port belonging to Tokyo

VERTICAL BOILER.

at Tamano By whom made Mitsui Shipbuilding & Engineering Co., Ltd. Boiler No. 252 When made Mar. '54 Where fixed in funnel

Manufacturers of Steel Plates: The Japan Works Ltd., Muroran Works, Fukiai Plant of Kawasaki Steel Corp. Tubes: Sumitomo Metal Ind. Ltd., Amagasaki Tube Works.

Heating Surface of each Boiler 112 m² Is forced draught fitted No Coal or Oil fired Exhaust gas

Description of Boilers 1; Vertical tube type Working Pressure 7 kg/cm²

Tested by hydraulic pressure to 14 kg/cm² Date of test 26th Feb., 1954 No. of Certificate B-18606

Area of fire grate in each Boiler - No. and description of safety valves to each boiler 1 set; Spring loaded safety valve

Pressure of each set of valves per boiler { per Rule As approved Pressure to which they are adjusted 7.2 kg/cm² Are they fitted with easing gear No

Whether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkers 7/7/54

Is oil fuel carried in the double bottom under boiler - Smallest distance between base of boiler and tank top plating Economizer

Is the base of the boiler insulated No Largest internal dia. of boiler 2500 mm Height 2000 mm

Shell plates: Material O.H. steel Tensile strength 48.7 kg/cm² Thickness 12 mm

Are the shell plates welded or flanged Welded If fusion welded, state name of welding firm Mitsui Shipbuilding & Engineering Co., Ltd.

Are all the requirements of the Rules for Class I vessels been complied with Yes Description of riveting: circ. seams { end - inter -

Diagonal seams - Dia. of rivet holes in { circ. seams - Pitch of rivets { - Thickness of butt straps { outer - inner -

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat - Material - Tensile strength - Thickness -

Description of Furnace: Plain, spherical, or dished crown Material -

Tensile strength - Thickness - External diameter { top - Length as per Rule - bottom -

Height of support stays circumferentially - and vertically - Are stays fitted with nuts or riveted over -

Radius of stays over thread - Radius of spherical or dished furnace crown -

Thickness of Ogee Ring - Diameter as per Rule { D - d -

Combustion Chamber: Material - Tensile strength - Thickness of top plate -

Thickness if dished - Thickness of back plate - Diameter if circular -

Height as per Rule - Pitch of stays -

Are stays fitted with nuts or riveted over - Diameter of stays over thread -

Shell Plates: Material { top O.H. steel Tensile strength { 45.9 kg/cm² Thickness { 22 mm Mean pitch of stay tubes in nests 352.5 mm bottom O.H. steel Tensile strength { 45.9 kg/cm² Thickness { 22 mm

Comprising shell, dia. as per Rule { front - Pitch in outer vertical rows { - Dia. of tube holes { top 96 mm bottom 88.9 mm plain 93 mm plain 88.9 mm

Does each alternate tube in outer vertical rows a stay tube -

Stays to Combustion Chamber Tops: Material - Tensile strength -

Length and thickness of girder at centre - Length as per Rule -

Distance apart - No. and pitch of stays in each -



