

REPORT ON BOILERS.

Received at London Office

14 JUL 1953

of writing Report 19..... When handed in at Local Office 8 JUL 1953 Port of KOBE

Survey held at Osaka, Japan Date, First Survey 7th March, 1953 Last Survey 2nd May 1953

on the Steel Single Screw M.V. "SHOSEI MARU" (Number of Visits 6) Gross 7199.23 Tons Net 4175.29

Built at Osaka, Japan By whom built Fujinagata Shipbuilding Co., Ltd. Yard No. 30 When built May, 1953

Lines made at Tamano, Japan By whom made Mitsui Shipbuilding & Eng. Co., Ltd. Engine No. 486 When made May, 1953

Boilers made at Tamano, Japan By whom made Ditto Boiler No. 326, 328 When made May, 1953

Indicated Horse Power 1106 Owners Matsuoka Kisen K.K. Port belonging to Ashiya, Japan

MULTITUBULAR BOILERS ~~XXXXXXXXXXXX~~ DONKEY.

Manufacturers of Steel Yawata Iron & Steel Mfg. Co., Ltd., Yawata, Japan (Letter for Record London letter 10-10-52.)

Heating Surface of Boilers 159.66M² Is forced draught fitted Yes Coal or Oil fired Oil

Description of Boilers 2x Riveted Cylindrical Dry Combustion Multitubular Boiler Working Pressure 10kg/cm²

Tested by hydraulic pressure to 18.5kg/cm² Date of test 26-3-53 No. of Certificate - Can each boiler be worked separately Yes

No. and Description of safety valves to each boiler 2x Spring loaded ordinarily type

No. of each set of valves per boiler As approved Pressure to which they are adjusted 10.2kg/cm² Are they fitted with easing gear Yes

Use of donkey boilers, state whether steam from main boilers can enter the donkey boiler -

Least distance between boilers or uptakes and bunkers or woodwork 650mm Is oil fuel carried in the double bottom under boilers -

Least distance between shell of boiler and tank top plating Installed on tween deck Is the bottom of the boiler insulated Yes

Least internal dia. of boilers 3.850mm Length 2.200mm Shell plates: Material O.H. Steel Tensile strength 28-35 T/in²

Thickness 38mm Are the shell plates welded or flanged No Description of riveting: circ. seams Double Riveted Lap joint

Double Butt Strap Triple Riveted joint Diameter of rivet holes in { circ. seams 39.5mm Pitch of rivets 111.04mm

Percentage of strength of circ. end seams { rivets 64.6 Percentage of strength of circ. intermediate seam { rivets 129 mm

Percentage of strength of longitudinal joint { rivets 47.4 Working pressure of shell by Rules 18.3kg/cm²

Thickness of butt straps { outer 38mm No. and Description of Furnaces in each Boiler 2 x Morison's Type

Material SB41P by JES Rule Tensile strength - Smallest outside diameter 1,086mm

Thickness of plain part { top 18mm Thickness of plates { crown 18mm Description of longitudinal joint Welded

Dimensions of stiffening rings on furnace or c.c. bottom - Working pressure of furnace by Rules 16.5kg/cm²

Plates in steam space: Material SB41P by JES Tensile strength 26-30T/in² Thickness 32mm Pitch of stays 350mmx420mm

Are stays secured Passed through both end plates, tightened up with nuts and washers at in. & out each Working pressure by Rules 22.2 kg/cm²

Plates: Material { front Top SB41P by JES Tensile strength 26-30T/in² Thickness { 32mm

pitch of stay tubes in nests 200mmx196mm Pitch across wide water spaces 200mmx196mm Working pressure { back 17.1 kg/cm²

Stays to combustion chamber tops: Material - Tensile strength - Depth and thickness of girder -

Length as per Rule - Distance apart - No. and pitch of stays -

Working pressure by Rules - Combustion chamber plates: Material -

Thickness: Sides - Back - Top - Bottom -

Are stays fitted with nuts or riveted over -

Front plate at bottom: Material SB41P by JES Tensile strength 26-30 T/in²

Lower back plate: Material SB41P by JES Tensile strength 26-30 T/in² Thickness 25mm

Stays at wide water space 1 stay fitted Are stays fitted with nuts or riveted over Nuts

Main stays: Material SB45B by JES Tensile strength 28-35 T/in²

No. of threads per inch 6 Area supported by each stay 1736 cm²

Screw stays: Material - Tensile strength -

No. of threads per inch - Area supported by each stay -

