

REPORT ON BOILERS.

No. 12333

Received at London Office MAY -1 1939

Date of writing Report 28th April 1939 When handed in at Local Office 29th April 1939

Port of Lathenburgh

No. in Survey held at Lathenburgh

Date, First Survey 17th Oct. 1938Last Survey 18th April 1939

Reg. Book.

Supplement 87012 on the Single Se. 7/8 BRITAMSEA

(Number of Visits 26) Gross 8237.70 Tons Net 4929.11

Master Built at Lathenburgh By whom built A.B. Estensen Yard No. 533 When built 1939

Engines made at Lathenburgh By whom made A.B. Estensen Engine No. 1342 When made 1939

Boilers made at Lathenburgh By whom made A.B. Estensen Boilers No. 2066 2067 When made 1939

Nominal Horse Power 653 Owners. SKIBS A/S CANADA TANK Port belonging to OSLO

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Messrs. Estensen & Co. (Letter for Record S ✓)

Total Heating Surface of Boilers 260 m² Is forced draught fitted Yes ✓ Coal or Oil fired Oil ✓No. and Description of Boilers Two multitubular boilers (cylindrical) Working Pressure 150 lb./sq. in. (10.5 kg/cm²)

Tested by hydraulic pressure to 275 lb./sq. in. Date of test 26.1.39 No. of Certificate 310, 311 Can each boiler be worked separately Yes ✓

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Double spring loaded ✓

Area of each set of valves per boiler { per Rule 88 cm² as fitted 90 cm² Pressure to which they are adjusted 150 lb./sq. in. Are they fitted with easing gear Yes ✓

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers fitted. ✓

Smallest distance between boilers or uptakes and bunkers or woodwork 750 mm A.P.T. Is oil fuel carried in the double bottom under boilers ✓

Smallest distance between shell of boiler and tank top plating Fitted on a platform Is the bottom of the boiler insulated Yes ✓

Largest internal dia. of boilers 3556 mm Length 3450 mm Shell plates: Material S.M. Steel Tensile strength 450 kg/cm² ✓

Thickness 20.5 mm Are the shell plates welded or flanged No ✓ Description of riveting: circ. seams { end D.P. lap ✓

long. seams D.P. straps 4 rows of rivets Diameter of rivet holes in { circ. seams 27 mm ✓ 27 mm outer rows ✓ 23 mm inner rows ✓ Pitch of rivets { 95 mm ✓ 279 mm ✓

Percentage of strength of circ. end seams { plate 71.5 % ✓ rivets 48.2 % ✓ Percentage of strength of circ. intermediate seam { plate ✓ rivets ✓

Percentage of strength of longitudinal joint { plate 90.3 % ✓ rivets 96.8 % ✓ combined 91.25 % ✓ Working pressure of shell by Rules 11 kg/cm² ✓

Thickness of butt straps { outer 20.5 mm ✓ inner 20.5 mm ✓ No. and Description of Furnaces in each Boiler 2 Annular corrugated. ✓

Material S.M. Steel Tensile strength 41-47 kg/cm² ✓ Smallest outside diameter 1124 mm ✓

Length of plain part { top ✓ bottom ✓ Thickness of plates { crown 12 mm ✓ bottom ✓ Description of longitudinal joint welded ✓

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 10.75 kg/cm² ✓End plates in steam space: Material S.M. Steel Tensile strength 41-47 kg/cm² ✓ Thickness 21 mm ✓ Pitch of stays 405 x 330 ✓How are stays secured Double nuts and loose washers outside Working pressure by Rules 12.4 kg/cm² ✓Tube plates: Material { front S.M. Steel Tensile strength 41-47 kg/cm² ✓ Thickness 21 mm ✓ back S.M. Steel Tensile strength 41-47 kg/cm² ✓ Thickness 18 mm ✓Mean pitch of stay tubes in nests 242 mm Pitch across wide water spaces 350 mm Working pressure { front 19 kg/cm² ✓ back 13.8 kg/cm² ✓Girders to combustion chamber tops: Material S.M. Steel Tensile strength 44-50 kg/cm² ✓ Depth and thickness of girder

at centre 1852, 2 x 205 mm Length as per Rule 762 mm Distance apart 207 mm No. and pitch of stays

in each 2, 210 mm Working pressure by Rules 13.4 kg/cm² ✓ Combustion chamber plates: Material S.M. Steel ✓Tensile strength 41-47 kg/cm² ✓ Thickness: Sides 18 mm ✓ Back 18 mm ✓ Top 18 mm ✓ Bottom 18 mm ✓

Pitch of stays to ditto: Sides 210 x 210 mm Back 209 x 215 mm Top 207 x 210 mm Are stays fitted with nuts or riveted over both ends. 6 stays riveted. ✓

Working pressure by Rules 11.9 kg/cm² ✓ Front plate at bottom: Material S.M. Steel Tensile strength 41-47 kg/cm² ✓Thickness 21 mm ✓ Lower back plate: Material S.M. Steel Tensile strength 41-47 kg/cm² ✓ Thickness 21 mm ✓

Pitch of stays at wide water space 209 x 330 mm Are stays fitted with nuts or riveted over nuts. ✓

Working Pressure 16.6 kg/cm² ✓ Main stays: Material S.M. Steel Tensile strength 44-50 kg/cm² ✓

Diameter { At body of stay, or Over threads 63.5 mm ✓ No. of threads per inch 6 ✓ Area supported by each stay 405 x 330 mm ✓

Working pressure by Rules 15.1 kg/cm² ✓ Screw stays: Material S.M. Steel Tensile strength 41-47 kg/cm² ✓

Diameter { At turned off part, or Over threads 38 mm ✓ No. of threads per inch 9 ✓ Area supported by each stay 209 x 215 mm ✓

