

REPORT ON BOILERS.

No. 38985.

Received at London Office

9 JUN 1928.

Date of writing Report June 7 1928 When handed in at Local Office June 7 1928. Port of HULL.

No. in Survey held at Hull Date, First Survey 16. March Last Survey 1 June 1928.

17778 on the Steam Trawler "ST ROMANUS" (Number of Visits 12) Gross Tons 357 Net Tons 154

Registered at Hull Built at Beverly By whom built Cook, Hutton & Hammett Yard No. 499 When built 1928

Engines made at Hull By whom made Charles D. Holmes & Co Ltd Engine No. 1007 When made 1928

Boilers made at Hull By whom made Charles D. Holmes & Co Ltd Boiler No. 1337 When made 1928

Nominal Horse Power 96. Owners Mrs. Hamling & Co Ltd Port belonging to Hull.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Wit. K. Wiggins Reyan & Eisenhuten Gls. (Letter for Record S.)

Total Heating Surface of Boilers 1698 sq. ft. Is forced draught fitted ho Coal or Oil fired Coal

No. and Description of Boilers one single ended Working Pressure 200 lbs

Tested by hydraulic pressure to 350 lbs Date of test 14/5/28 No. of Certificate 3646 Can each boiler be worked separately ✓

Area of Firegrate in each Boiler 49.2 sq. ft. No. and Description of safety valves to each boiler 2 Spring loaded

Area of each valve per boiler 4.90 per Rule 4.90 Pressure to which they are adjusted 200 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 4" Is oil fuel carried in the double bottom under boilers —

Smallest distance between shell of boiler and tank top plating — Is the bottom of the boiler insulated —

Largest internal dia. of boilers 14'-0" Length 10'-8" Shell plates: Material Steel Tensile strength 38/32 Tons

Thickness 1/32" Are the shell plates welded or flanged ✓ Description of riveting: circ. seams end 3/4" inter. —

Long. seams T.R. 5/8" Diameter of rivet holes in circ. seams 1/32" Pitch of rivets 8 3/8"

Percentage of strength of circ. end seams plate 65.8 rivets 51.2 Percentage of strength of circ. intermediate seam plate — rivets —

Percentage of strength of longitudinal joint plate 85.03 rivets 90.8 combined 88.8 Working pressure of shell by Rules 201 lbs.

Thickness of butt straps outer 1" inner 1/2" No. and Description of Furnaces in each Boiler three plain

Material Steel Tensile strength 38/30 Tons Smallest outside diameter 41"

Length of plain part top 76" bottom 69" Thickness of plates crown 13/16" bottom 13/16" Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom — Working pressure of furnace by Rules 219 lbs.

End plates in steam space: Material Steel Tensile strength 38/30 Tons Thickness 1 1/16" Pitch of stays 18"

How are stays secured bx. w.s. Working pressure by Rules 220 lbs.

End plates: Material front Steel back " Tensile strength 38/30 Tons Thickness 1 1/16" 7/8"

Mean pitch of stay tubes in nests 10.97 Pitch across wide water spaces 13 3/4" Working pressure front 211 back 230

Orders to combustion chamber tops: Material Steel Tensile strength 38/32 Tons Depth and thickness of girder —

Centre 10 1/2 x 13 1/4 Length as per Rule 36 3/16" Distance apart 9" No. and pitch of stays 3 @ 8 3/4"

Working pressure by Rules 210 lbs. Combustion chamber plates: Material Steel Tensile strength 38/30 lbs. Thickness: Sides 3/4" Back 2 3/32" Top 3/4" 2 3/32" Bottom 3/4"

Pitch of stays to ditto: Sides 9 x 8 3/4" Back 9 x 8 3/4" Top 9 x 8 3/4" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 230 Front plate at bottom: Material Steel Tensile strength 38/30 Tons Thickness 1 1/16" Lower back plate: Material Steel Tensile strength 38/30 Tons Thickness 7/32"

Pitch of stays at wide water space 14 x 8 3/4" Are stays fitted with nuts or riveted over nuts

Working Pressure 228 lbs. Main stays: Material Steel Tensile strength 38/32 Tons

Diameter At body of stay, or Over threads 3/4" No. of threads per inch 8 Area supported by each stay 324 sq. in.

Working pressure by Rules 240 lbs. Screw stays: Material Steel Tensile strength 38/30 Tons

Diameter At turned off part, or Over threads 1 7/8" 1 3/4" No. of threads per inch 10 Area supported by each stay 76.9

