

REPORT ON BOILERS.

No. 120674.

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No. in Survey held at g. Book 11/2/43 Date, First Survey 30/12/1943 Last Survey

on the Admiralty Trawler Boat No 2259 S.S. URMSTON GRANGE (Number of Visits 18) Tons {Gross Net

Master Built at By whom built Yard No. When built

Engines made at By whom made Engine No. When made

Boilers made at Birkenhead By whom made Hammel and Rod Boiler No 2259 When made 1943

Nominal Horse Power 176.6 for boiler Owners Port belonging to

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colville Ltd. (Letter for Record (S) ✓)

Total Heating Surface of Boilers 2650 ft² ✓ Is forced draught fitted Yes Coal or Oil fired oil ✓

No. and Description of Boilers 1 S.E. ✓ Working Pressure 200 lbs ✓

Tested by hydraulic pressure to 350 lbs ✓ Date of test 12/11/43 No. of Certificate 2625 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler Oil fired No. and Description of safety valves to each boiler 35/8 BOILER, 2-2 1/2 VALVES ONE DOUBLE SPRING I.H.L. Valve

Area of each set of valves per boiler {per Rule 8.6 as fitted 10.321 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 None adjacent Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating approx. 2'-2 1/2" Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 14'-9 3/8" Length 11'-4 21/32" Shell plates: Material Steel Tensile strength 29/33 Ton

Thickness 1 5/16" Are the shell plates welded or flanged No. Description of riveting: circ. seams {end 4.01" inter. 9.5" ✓

long. seams T.R. - D.B.S. Diameter of rivet holes in {circ. seams 1 3/8" ✓ long. seams Pitch of rivets {plate 65 ✓ rivets 45 ✓ Percentage of strength of circ. intermediate seam {plate 85.5 ✓ rivets 88.54 ✓

Percentage of strength of circ. end seams {plate 88.77 ✓ rivets Working pressure of shell by Rules 202 lbs

Percentage of strength of longitudinal joint {plate 88.77 ✓ rivets combined No. and Description of Furnaces in each Boiler 3. Bighton Section

Thickness of butt straps {outer 1 1/8" ✓ inner Tensile strength 26/30 Ton. Smallest outside diameter 3'-4 1/8" ✓

Material Steel Thickness of plates {crown 19/32" ✓ bottom Description of longitudinal joint weld

Length of plain part {top ✓ bottom Thickness of plates {crown 19/32" ✓ bottom Description of longitudinal joint weld

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 208 lbs

End plates in steam space: Material Steel Tensile strength 26-30 Ton. Thickness 1 1/32" Pitch of stays 20 3/8" x 20" ✓

How are stays secured D.N. Working pressure by Rules 204 lbs

Tube plates: Material {front Steel ✓ back Tensile strength {26-30 Ton. ✓ Thickness {7/8" 25/32" ✓

Mean pitch of stay tubes in nests 9 1/32" Pitch across wide water spaces 13 5/8" Working pressure {front 240 lbs ✓ w.w.s. back 203 lbs ✓

Girders to combustion chamber tops: Material Steel Tensile strength 28/32 Ton. Depth and thickness of girder

at centre 8 1/4" x 15 1/16" dble. Length as per Rule 31.47" Distance apart 10 3/4" max. No. and pitch of stays

in each 2 @ 17/8" 9 3/8" Working pressure by Rules 203 lbs. Combustion chamber plates: Material Steel

Tensile strength 26-30 Ton. Thickness: Sides 25/32" Back 25/32" Top 25/32" Bottom 25/32" ✓

Pitch of stays to ditto: Sides 9 7/8" x 10 3/4" Back 9 1/2" x 11" max. Top 10 3/4" x 9 7/8" Are stays fitted with nuts or riveted over nuts.

Working pressure by Rules 200 lbs. Front plate at bottom: Material Steel Tensile strength 26/30 Ton. ✓

Thickness 7/8" Lower back plate: Material Steel Tensile strength 26/30 Ton. Thickness 7/8" ✓

Pitch of stays at wide water space 14 1/2" Are stays fitted with nuts or riveted over nuts.

Working Pressure 200 lbs. Main stays: Material Steel Tensile strength 28-32 Ton

Diameter {At body of stay, 3 1/4" ✓ or No. of threads per inch 6. Area supported by each stay 20 3/8" x 20" ✓

Working pressure by Rules Screw stays: Material Steel Tensile strength 26-30 Ton. ✓

Diameter {At turned off part, 1 7/8" - 2" ✓ or No. of threads per inch 9. Area supported by each stay 11" x 9 1/2" max

