

REPORT ON BOILERS.

No. 18781

Received at London Office 9 OCT 1946

Date of writing Report 4-10-1946 When handed in at Local Office 5-10-1946 Port of WEST HARTLEPOOL

No. in Survey held at WEST HARTLEPOOL Date, First Survey 7th November, 1945 Last Survey 30th Sept., 1946

on the STEEL SCREW STEAMER MALMO (Number of Visits 73) Gross 1778.96 Tons Net 734.47

Built at WEST HARTLEPOOL By whom built WM. GRAY & CO. LTD Yard No. 1191 When built 1946

Engines made at WEST HARTLEPOOL By whom made CENTRAL MARINE ENGINE WORKS. Engine No. 1191 When made 1946

Boilers made at WEST HARTLEPOOL By whom made CENTRAL MARINE ENGINE WORKS Boiler No. 1191 When made 1946

Indicated Horse Power 417. Owners ELLERMAN'S WILSON LINE. Port belonging to HULL.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Steel of Scotland T. H. & J. Stoddington (Letter for Record S. ✓)

Total Heating Surface of Boilers 4552 sq. SUP. 1741 sq. Is forced draught fitted Yes. ✓ Coal or Oil fired OIL. ✓

No. and Description of Boilers 2 single ended, multitubular Working Pressure 210 lbs. ✓

Tested by hydraulic pressure to 365 lbs. Date of test 13-6-46 No. of Certificate 4066 Can each boiler be worked separately Yes. ✓

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2-2 1/4 COCKBURNS 1HL. ✓

Area of each set of valves per boiler {per Rule 6.325 sq. ✓ as fitted 7.952 sq. ✓ Pressure to which they are adjusted 210 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 2'-6" Is oil fuel carried in the double bottom under boilers No. ✓

Smallest distance between shell of boiler and tank top plating 21 3/8" Is the bottom of the boiler insulated Yes. ✓

Largest internal dia. of boilers 14'-0" Length 11'-9" Shell plates: Material Steel Tensile strength 29-33 tons ✓

Thickness 1 3/8" Are the shell plates welded or flanged No. ✓ Description of riveting: circ. seams {end P.R. LAP. ✓ inter. - ✓

Long. seams TR Double butt strap Diameter of rivet holes in {circ. seams 1 3/16" ✓ Pitch of rivets {3.998" ✓ long. seams 1 3/16" ✓ 9 3/4" ✓

Percentage of strength of circ. end seams {plate 64. ✓ rivets 46.8 ✓ Percentage of strength of circ. intermediate seam {plate - ✓ rivets - ✓

Percentage of strength of longitudinal joint {plate 85.25 ✓ rivets 90 ✓ Working pressure of shell by Rules -

Thickness of butt straps {outer 1 1/16" ✓ inner 1 3/16" ✓ No. and Description of Furnaces in each Boiler 3 corrugated Deighton section ✓

Material Steel Tensile strength 26-30 tons ✓ Smallest outside diameter 3'-5 1/4" ✓

Length of plain part {top - ✓ bottom - ✓ Thickness of plates {crown 5/8" ✓ bottom 5/8" ✓ Description of longitudinal joint welded. ✓

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

Stay plates in steam space: Material Steel Tensile strength 26-30 tons ✓ Thickness 1 1/32" ✓ Pitch of stays 19 3/8" x 19 3/4" ✓

How are stays secured Double nuts. ✓ Working pressure by Rules -

Stay plates: Material {front Steel Tensile strength 26-30 tons ✓ Thickness 1 5/16" ✓ back Steel Tensile strength 26-30 tons ✓ Thickness 2 3/32" ✓

Span pitch of stay tubes in nests 12 3/8" x 8 1/2" Pitch across wide water spaces 14" ✓ Working pressure {front - ✓ back - ✓

Stays to combustion chamber tops: Material Steel Tensile strength 28-32 tons ✓ Depth and thickness of girder

centre 8 3/4" x 1 3/4", 2-7/8" plate Length as per Rule 2'-7 3/16" Distance apart 9 1/2" ✓ No. and pitch of stays

each 3 @ 8" ✓ Working pressure by Rules - Combustion chamber plates: Material Steel ✓

Tensile strength 26-30 tons ✓ Thickness: Sides 2 3/32" ✓ Back 2 3/32" ✓ Top 2 3/32" ✓ Bottom 2 3/32" ✓

Pitch of stays to ditto: Sides 9 1/2" x 8" ✓ Back 9 3/8" x 8 3/4" ✓ Top 9 1/2" x 8" ✓ Are stays fitted with nuts or riveted over No. ✓

Working pressure by Rules - Front plate at bottom: Material Steel Tensile strength 26-30 tons ✓

Thickness 1 5/16" ✓ Lower back plate: Material Steel Tensile strength 26-30 tons ✓ Thickness 2 3/32" ✓

Pitch of stays at wide water space 14 3/8" x 9 3/8" ✓ Are stays fitted with nuts or riveted over No. ✓

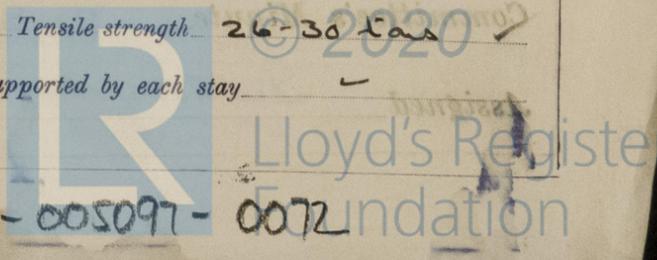
Working Pressure - Main stays: Material Steel Tensile strength 28-32 tons ✓

Area supported by each stay 19 3/4" x 19 3/8" ✓

meter {At body of stay, No. of threads per inch 6 ✓ Area supported by each stay 19 3/4" x 19 3/8" ✓ Over threads 3 7/8" ✓

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

meter {At turned off part, No. of threads per inch 9 ✓ Area supported by each stay - Over threads 1 3/4" ✓



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