

REPORT ON BOILERS.

1 JUN 1944

Received at London Office

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Date of writing Report 26/5/1944 When handed in at Local Office 26/5/1944 Port of WEST HARTLEPOOL

No. in Reg. Book. Survey held at WEST HARTLEPOOL Date, First Survey 23rd March, 1944 Last Survey 20th May, 1944

on the H.M. TRAWLER "HERMETRAY" J2692 (Number of Visits 9) Gross 458-6 Tons Net 143-9

Master Built at SELBY By whom built COCHRANE & SONS L^o Yard No. 1284 When built 1944

Engines made at HULL By whom made MESS^{rs} C.P. HOLMESTER^o Engine No. 740 When made 1944

Boilers made at WEST HARTLEPOOL By whom made CENTRAL MARINE ENGINE WORKS. Boiler No. R365 When made 1944.

Nominal Horse Power 156 Owners THE ADMIRALTY Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Mess^{rs} Colvilles, 2nd Glasgow. (Letter for Record S. ✓)

Total Heating Surface of Boilers 2650 sq ft Is forced draught fitted Yes. Coal or Oil fired Coal. ✓

No. and Description of Boilers One single ended multitubular Working Pressure 200 lbs ✓

Tested by hydraulic pressure to 350 lbs Date of test 25-5-44 No. of Certificate H.027 Can each boiler be worked separately -

Area of Firegrate in each Boiler 63.36 sq ft No. and Description of safety valves to each boiler Two Cockburn High Lift

Area of each set of valves per boiler {per Rule 7.7 sq. ins. Pressure to which they are adjusted 200 lbs Are they fitted with easing gear YES. as fitted 9.8 sq. ins.

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 2'-0" Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating NONE Is the bottom of the boiler insulated No

Largest internal dia. of boilers 14'-9 3/8" Length 11'-6" Shell plates: Material Steel Tensile strength 29-33 tons ✓

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

long. seams TR Double butt strap Diameter of rivet holes in {circ. seams 1 3/8" Pitch of rivets {inter. 4" long. seams 1 3/8" 9 1/2" ✓

Percentage of strength of circ. end seams {plate 65.6 rivets 44.9 Percentage of strength of circ. intermediate seam {plate - rivets -

Percentage of strength of longitudinal joint {plate 85.52 rivets 88.54 combined 88.77 Working pressure of shell by Rules

Thickness of butt straps {outer 1" inner 1 1/8" No. and Description of Furnaces in each Boiler 3 Corrugated Deighton Section. ✓

Material Steel Tensile strength 26-30 tons Smallest outside diameter 3'-6 7/16" ✓

Length of plain part {top - bottom - Thickness of plates {crown 1 9/32" Description of longitudinal joint Welded. bottom 1 3/32" ✓

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

End plates in steam space: Material Steel Tensile strength 26-30 tons Thickness 1 1/32" Pitch of stays 21 x 20 ✓

How are stays secured Double nuts Working pressure by Rules

Tube plates: Material {front Steel Tensile strength {26-30 tons Thickness {3/8" 25/32" back Steel 26-30 tons ✓

Mean pitch of stay tubes in nests 11 5/8" x 7 3/4" Pitch across wide water spaces 13 5/8" Working pressure {front - back -

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

at centre 8 1/4 x 1 1/8 2-15/16 plates Length as per Rule 2'-6 29/32" Distance apart 10 3/4" No. and pitch of stays

in each 2 @ 9 1/2" Working pressure by Rules Combustion chamber plates: Material Steel ✓

Tensile strength 26-30 tons Thickness: Sides 25/32" Back 3/4" Top 25/32" Bottom 25/32" ✓

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

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

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

Pitch of stays at wide water space 14 1/2 x 9 3/8" Are stays fitted with nuts or riveted over Nuts ✓

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

Diameter {At body of stay 3 3/16" No. of threads per inch 6 Area supported by each stay ✓

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

Diameter {At turned off part 1 1/8" No. of threads per inch 9 Area supported by each stay ✓



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