

REPORT ON BOILERS.

No. 46366

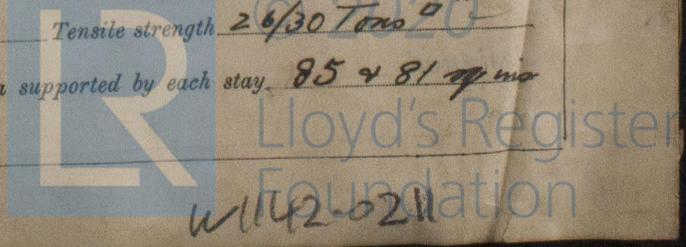
Received at London Office 29 NOV 1935

28 NOV 1935

Port of HULL
 Date, First Survey 11th Sept. 1935 Last Survey 18th Nov. 1935
 on the Steam Trawler "Cape Corrientes"
 Built at Selly By whom built Cochrane & Sons Ltd Yard No. 1146 When built 1935
 Engines made at Hull By whom made C.D. Holmes & Co Ltd. Engine No. 1484 When made 1935
 Boilers made at do By whom made do Boiler No. 1484 When made 1935
 Nominal Horse Power 105. Owners Charleston Steam Fishing Co Ltd. Port belonging to Hull.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The Steel Company of Scotland Ltd. (Letter for Record S)
 Total Heating Surface of Boilers 1940 sq ft. Is forced draught fitted No 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 30/10/35 No. of Certificate 3921 Can each boiler be worked separately ✓
 Area of Firegrate in each Boiler 53.7 sq ft. No. and Description of safety valves to each boiler Double 2 3/4" dia spring loaded.
 Area of each set of valves per boiler {per Rule 11.3 sq ins 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 ✓ 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 No
 Largest internal dia. of boilers 14-6" Length 10'-8" Shell plates: Material Steel Tensile strength 29/33 Tons
 Thickness 1 9/32" Are the shell plates welded or flanged No Description of riveting: circ. seams {end DR
 Long. seams T.R. DBS Diameter of rivet holes in {circ. seams 1 1/32" Pitch of rivets {3 3/4"
 {long. seams 1 1/32" {9 1/4"
 Percentage of strength of circ. end seams {plate 64.3% Percentage of strength of circ. intermediate seam {plate ✓
 {rivets 46.8% {rivets ✓
 Percentage of strength of longitudinal joint {plate 85.5% Working pressure of shell by Rules 202 lbs
 {rivets 88.5% {combined 88.7%
 Thickness of butt straps {outer 1" No. and Description of Furnaces in each Boiler 3 Plain
 {inner 1 1/8" Material Steel. Tensile strength 26/30 Tons Smallest outside diameter 3'-6 1/2"
 Length of plain part {top 6'-3" Thickness of plates {crown 13/16" Description of longitudinal joint Welded.
 {bottom 5'-6" {bottom 1/16" Working pressure of furnace by Rules 206 lbs
 Dimensions of stiffening rings on furnace or c.c. bottom ✓ End plates in steam space: Material Steel. Tensile strength 26/30 Tons Thickness 1 1/4" Pitch of stays 19 3/4" x 18 1/2"
 How are stays secured Double nuts and washers. Working pressure by Rules 203 lbs
 Tube plates: Material {front Steel Tensile strength {26/30 Tons Thickness {15/16"
 {back " {7/8"
 Mean pitch of stay tubes in nests 10.7" Pitch across wide water spaces 14" Working pressure {front 209 lbs
 {back 242 lbs
 Girders to combustion chamber tops: Material Steel. Tensile strength 29/33 Tons Depth and thickness of girder
 at centre 10" x (7/8" x 2) Length as per Rule 36 1/4" Distance apart 9" wing 9 1/2" centre No. and pitch of stays
 in each 3 @ 8" Working pressure by Rules 233 lbs Combustion chamber plates: Material Steel.
 Tensile strength 26/30 Tons Thickness: Sides 23/32" Back 1/16" Top 1/16" Bottom 23/32"
 Pitch of stays to ditto: Sides 10" x 8 1/2" Back 9" x 9" Top 9 1/2" x 8" Are stays fitted with nuts or riveted over nuts.
 Working pressure by Rules 204 lbs Front plate at bottom: Material Steel. Tensile strength 26/30 Tons
 Thickness 15/16" Lower back plate: Material Steel Tensile strength 26/30 Tons Thickness 7/8"
 Pitch of stays at wide water space 14 1/4" Are stays fitted with nuts or riveted over nuts.
 Working Pressure 26/30 Tons Main stays: Material Steel Tensile strength 28/32 Tons
 Diameter {At body of stay, 3 1/4" No. of threads per inch 8 Area supported by each stay 361 sq ins
 {Over threads ✓ Working pressure by Rules 203 lbs Screw stays: Material Steel Tensile strength 26/30 Tons
 Diameter {At turned off part, 2", 1 7/8" & 1 3/4" No. of threads per inch 10 Area supported by each stay 85 & 81 sq ins
 {Over threads ✓



PILLARS
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Plating
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Upper String
Thick in
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Second String
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BILGE PL Strake
SIDE PL Strake
UPPER strake
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STRAKE strake
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AFTEI
STEE

Working pressure by Rules 225 lb^a Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, or Over threads 2" x 1 7/8"
 No. of threads per inch 10 Area supported by each stay 1.06 sq in Working pressure by Rules 203 lb^a
 Tubes: Material Iron External diameter { Plain 3 1/2" Stay 3 1/2" Thickness { 8 W.G. 5/16" x 3/8" No. of threads per inch 9
 Pitch of tubes 4 3/4" x 4 3/4" Working pressure by Rules 215 lb^a Manhole compensation: Size of opening
 shell plate 16 x 12" Section of compensating ring 57 1/2" dia x 1 3/32" No. of rivets and diameter of rivet holes 122 @ 1 1/2"
 Outer row rivet pitch at ends 10.45" Depth of flange if manhole flanged Steam Dome: Material Steel
 Tensile strength 26/30 Tons^a Thickness of shell 3/4" Description of longitudinal joint S.R. Lap
 Diameter of rivet holes 1 1/2" Pitch of rivets 2 1/4" Percentage of strength of joint { Plate 54.4% Rivets 44%
 Internal diameter 2'-9" Working pressure by Rules 231 lb^a Thickness of crown 7/8" No. and diameter
 stays 2 @ 2 1/4" dia Inner radius of crown Working pressure by Rules
 How connected to shell D.R. lap joint Size of doubling plate under dome 57 1/2" dia x 1 3/32" Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell 1 1/2" dia pitch 10.45"
 Type of Superheater Smoke tube Type Manufacturers of { Tubes The Superheater Co. Ltd, Manchester Steel castings do do
 Number of elements 26 Material of tubes Steel Internal diameter and thickness of tubes 17/23 mm dia
 Material of headers Jorged Steel Tensile strength 28 Tons^a Thickness Can the superheater be shut off
 the boiler be worked separately Yes Is a safety valve fitted to every part of the superheater which can be shut off from the boiler Yes
 Area of each safety valve 1.77 sq in (valve 1 1/2" dia) Are the safety valves fitted with easing gear Yes Working pressure as per
 Rules 396 lb^a Pressure to which the safety valves are adjusted 200 lb^a Hydraulic test pressure
 tubes 1000 lb^a, castings 600 lb^a and after assembly in place 600 lb^a Are drain cocks or valves fitted
 to free the superheater from water where necessary Yes
 Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,
 FOR CHARLES D. HOLMES & CO., LTD.
 J. D. [Signature] Manufacturer

Dates of Survey { During progress of work in shops -- } See Mch'y Report. Are the approved plans of boiler and superheater forwarded herewith Yes.
 while building { During erection on board vessel -- } (If not state date of approval.)
 Total No. of visits

Is this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey and in accordance with the approved plan. It has been satisfactorily fitted on board, examined under steam, and safety valves adjusted as above.

Charged on engine Rpt herewith.
 Survey Fee £ : When applied for, 19
 Travelling Expenses (if any) £ : When received, 19

H. W. B. Edwards
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 3 DEC 1935
 Assigned See minute on J.E. Rpt

