

REPORT ON BOILERS.

No. 50693

Received at London Office [3 SEP 1930]

Date of writing Report 19 30 When handed in at Local Office 1. 9. 1930 Part of Glasgow

No. in Reg. Book 81113 on the Glasgow Date, First Survey 24. 4. 30 Last Survey 22nd Aug. 1930

(Number of Visits 25) Tons { Gross 2179 Net 1281 }
By whom built S. S. Penry

Master Ed. Kelpinich Built at Ed. Kelpinich By whom built Drum & Miller Yard No. 216 When built 1930

Engines made at Glasgow By whom made McKie & Baxter Ltd. Engine No. 1263 When made 1930

Boilers made at Glasgow By whom made Burday Harland & Co Ltd Boiler No. 11023 When made 1930

Nominal Horse Power 241 Owners Compagnie Navale & Navigation & Reparat Port belonging to Antio

See also Report No. 50641

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel _____ (Letter for Record S)

Total Heating Surface of Boilers 3630 sq ft Is forced draught fitted Yes Coal or Oil fired Coal

No. and Description of Boilers Two single ended return tubes. Working Pressure 180 lbs

Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate 18764 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler _____ No. and Description of safety valves to each boiler Two Spring loaded.

Area of each set of valves per boiler { per Rule 11.60 as fitted 11.85 } Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes

Smallest distance between boilers or uptakes and bunkers or woodwork Well clear Is oil fuel carried in the double bottom under boilers Yes

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

Largest internal dia. of boilers _____ Length _____ Shell plates: Material _____ Tensile strength _____

Thickness _____ Are the shell plates welded or flanged _____ Description of riveting: circ. seams { end _____ inter. _____ }

long. seams _____ Diameter of rivet holes in { circ. seams _____ long. seams _____ } Pitch of rivets { _____ }

Percentage of strength of circ. end seams { plate _____ rivets _____ } Percentage of strength of circ. intermediate seam { plate _____ rivets _____ }

Percentage of strength of longitudinal joint { plate _____ rivets _____ combined _____ } Working pressure of shell by Rules _____

Thickness of butt straps { outer _____ inner _____ } No. and Description of Furnaces in each Boiler _____

Material _____ Tensile strength _____ Smallest outside diameter _____

Length of plain part { top _____ bottom _____ } Thickness of plates { crown _____ bottom _____ } Description of longitudinal joint _____

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

End plates in steam space: Material _____ Tensile strength _____ Thickness _____ Pitch of stays _____

How are stays secured _____ Working pressure by Rules _____

Tube plates: Material { front _____ back _____ } Tensile strength { _____ } Thickness { _____ }

Mean pitch of stay tubes in nests _____ Pitch across wide water spaces _____ Working pressure { front _____ back _____ }

Girders to combustion chamber tops: Material _____ Tensile strength _____ Depth and thickness of girder _____

at centre _____ Length as per Rule _____ Distance apart _____ No. and pitch of stays _____

in each _____ Working pressure by Rules _____ Combustion chamber plates: Material _____

Tensile strength _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____

Pitch of stays to ditto: Sides _____ Back _____ Top _____ Are stays fitted with nuts or riveted over _____

Working pressure by Rules _____ Front plate at bottom: Material _____ Tensile strength _____

Thickness _____ Lower back plate: Material _____ Tensile strength _____ Thickness _____

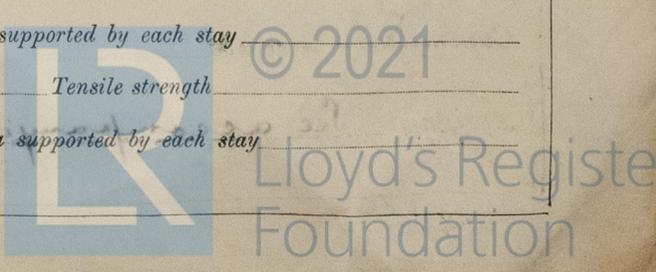
Pitch of stays at wide water space _____ Are stays fitted with nuts or riveted over _____

Working Pressure _____ Main stays: Material _____ Tensile strength _____

Diameter { At body of stay, _____ or _____ } No. of threads per inch _____ Area supported by each stay _____

Working pressure by Rules _____ Screw stays: Material _____ Tensile strength _____

Diameter { At turned off part, _____ or _____ } No. of threads per inch _____ Area supported by each stay _____



Working pressure by Rules *8700* Are the stays drilled at the outer ends Margin stays: Diameter ^{At turned off part,} _{or} ^{Over threads}
 No. of threads per inch Area supported by each stay Working pressure by Rules
Tubes: Material External diameter ^{Plain} _{Stay} Thickness No. of threads per inch
 Pitch of tubes Working pressure by Rules **Manhole compensation:** Size of opening in shell plate Section of compensating ring No. of rivets and diameter of rivet holes
 Outer row rivet pitch at ends Depth of flange if manhole flanged **Steam Dome:** Material
 Tensile strength Thickness of shell Description of longitudinal joint
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint ^{Plate} _{Rivets}
 Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays Inner radius of crown Working pressure by Rules
 How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of ^{Tubes} _{Steel castings}
 Number of elements Material of tubes Internal diameter and thickness of tubes
 Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
 Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes, castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with
 The foregoing is a correct description, Manufacturer.

Dates of Survey ^{During progress of work in shops - -} _{while building} ^{See accompanying} _{machinery report} Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
 Total No. of visits 25

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These Boilers have been placed on board and efficiently secured in position. They have been examined under steam and found in order.

*A.C.
1/19/30.*

Survey Fee ... £ : ✓ : When applied for, 19
 Travelling Expenses (if any) £ : ✓ : When received, 19

John Munn
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 2-SEP-1930 *YMM*

Assigned *See accompanying machinery report*

TUE 23 SEP 1930
 FRI. 3 OCT 1930



FRI. 12 DEC 1930