

## REPORT ON BOILERS.

No. 1063

Received at London Office 20 APR 1931

Date of writing Report 17. 4. 1931 When handed in at Local Office 17. 4. 1931 Port of Rouen

No. in Survey held at Rouen Date, First Survey 27 January Last Survey 14 April 1931

on the Steel s.c. Alabama (Number of Visits 10) Tons { Gross Net

Master Built at Rouen By whom built Chantiers de Normandie Yard No. 56 When built 1931

Engines made at Dunkirk By whom made Chantiers Ateliers de France Engine No. 1686 When made 1930-31

Boilers made at Saint Nazaire By whom made Chantiers Ateliers de St Nazaire Boiler No. 1291-1292 When made 1930

Nominal Horse Power 772 Owners Cie Transatlantique Port belonging to Havre

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record)

Total Heating Surface of Boilers Is forced draught fitted Coal or Oil fired

No. and Description of Boilers Working Pressure 12.650

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

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Two spring Double full bore Cockburn's

Area of each set of valves per boiler { per Rule 2035 as fitted 2046 Pressure to which they are adjusted 12.650 = 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 no donkey boiler fitted

Smallest distance between boilers or uptakes and bunkers or woodwork 4 1/2" no Wood Is oil fuel carried in the double bottom under boilers yes

Smallest distance between shell of boiler and tank top plating 600 mm Is the bottom of the boiler insulated no

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 {

Lean 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

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

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 Over threads 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 Over threads No. of threads per inch Area supported by each stay

Working pressure by Rules ☒ 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 ☒

How connected to shell ☒ Inner radius of crown ☒ Working pressure by Rules ☒

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 23 inclusive for boilers been complied with ☒ yes.

CHANTIERS DE NORMANDIE The foregoing is a correct description,  
H. AND QUEVILLY (S) Inf. Manufacturer.

Dates of Survey ☒ During progress of work in shops - - ☒ Are the approved plans of boiler and superheater forwarded herewith ☒ (If not state date of approval.)

while building ☒ During erection on board vessel - - ☒ 23.27 Jan. 3.9.17 Feb. 2.23.25.30 March 18 April Total No. of visits 10

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

The erection on board has been surveyed, the workmanship is good, the safety valves have been adjusted & tested under rule requirements.

The boilers of this vessel merit in my opinion the favourable consideration of the Committee for to be classed and to be included in the notation of L.M.C.

Survey Fee ... .. £ See Ucky Rpt } When applied for, 192

Travelling Expenses (if any) £ : " : } When received, 192

*J. Hamelin*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 1 MAY 1931

Assigned See F. & C. Rpt.



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