

REPORT ON MACHINERY. 48880*

Port of

No.

Received at London Office 18

No. in Survey held at *London*
Reg. Book.

Date, first Survey *Nov. 19th/87* Last Survey *Dec. 17th* 1888

(Number of Visits *14*)

on the *S. S. Countess of Lathom*

Tons

Master Built at *Millwall* By whom built *Stewart & Lathom* When built *1888*

Engines made at *E. Greenwich* By whom made *Appley Bros.* when made *1888*

Boilers made at *do* By whom made *do* when made *1888*

Registered Horse Power *50 100* Owners Port belonging to

ENGINES, &c.—

Description of Engines *Two Screw driving 4 Props. Invert. Cylinders.*

Diameter of Cylinders *18" x 33"* Length of Stroke *24"* No. of Rev. per minute *80* Point of Cut off, High Pressure *3/4* Low Pressure *3/4*

Diameter of Screw shaft *6 1/2"* Diam. of Tunnel shaft *✓* Diam. of Crank shaft journals *7"* Diam. of Crank pin *7"* size of Crank webs *8" x 5"*

Diameter of screw *6ft.* Pitch of screw *10ft.* No. of blades *4* state whether moveable *no* total surface *18.4 sq. ft.*

No. of Feed pumps *1* diameter of ditto *3* Stroke *9* Can one be overhauled while the other is at work *✓*

No. of Bilge pumps *1* diameter of ditto *3* Stroke *9* Can one be overhauled while the other is at work *✓*

Where do they pump from *Engine Rm.*

No. of Donkey Engines *1* Size of Pumps *3 dia 6 stroke.* Where do they pump from *Stoke Hold & Sea*

Are all the bilge suction pipes fitted with roses *yes.* Are the roses always accessible *yes.* Are the sluices on Engine room bulkheads always accessible *yes.*

No. of bilge injections and sizes Are they connected to condenser, or to circulating pump

How are the pumps worked *Separate Engines.*

Are all connections with the sea direct on the skin of the ship *yes.* Are they Valves or Cocks *Both*

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *no* Are the discharge pipes above or below the deep water line *above.*

Are they each fitted with a discharge valve always accessible on the plating of the vessel *yes.* Are the blow off cocks fitted with a spigot and brass covering plate *yes.*

What pipes are carried through the bunkers *Bilge discharge.* How are they protected *Wooden casing*

Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times *yes.*

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges *yes.*

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Is the screw shaft tunnel watertight *no tunnel* and fitted with a sluice door *✓* worked from *✓*

BOILERS, &c.—

Number of Boilers *Two* Description *Multitubular* Whether Steel or Iron *Steel*

Working Pressure *100 lbs.* Tested by hydraulic pressure to *200 lbs.* Date of test *Mar. 31st 1888*

Description of superheating apparatus or steam chest *Steam dome.*

Can each boiler be worked separately *yes.* Can the superheater be shut off and the boiler worked separately *✓*

No. of square feet of fire grate surface in each boiler *32 sq. ft.* Description of safety valves *Direct spring* No. to each boiler *2*

Area of each valve *7.07* Are they fitted with easing gear *yes.* No. of safety valves to superheater *✓* area of each valve *✓*

Are they fitted with easing gear *✓* Smallest distance between boilers and bunkers or woodwork *12 in.* Diameter of boilers *8ft. 3 in.*

Length of boilers *14 ft.* description of riveting of shell long. seams *Splice lap.* circum. seams *Single lap.* Thickness of shell plates *11/16"*

Diameter of rivet holes *1 1/16"* whether punched or drilled pitch of rivets *3 3/4"* Lap of plating *6 3/4"*

Per centage of strength of longitudinal joint *73%* working pressure of shell by rules *115 lbs.* size of manholes in shell *15" x 12"*

Size of compensating rings *6" x 3/4"* No. of Furnaces in each boiler *2*

Outside diameter *2' 9"* length, top *10' 6"* bottom thickness of plates *5/8"* description of joint *Welded.* if rings are fitted *yes.*

Greatest length between rings *5.3* working pressure of furnace by the rules *125 lbs.* combustion chamber plating, thickness, sides *1/2"* back *1/2"* top *1/2"*

Pitch of stays to ditto, sides *8 1/2"* back *8 1/2"* top *8 1/2"* If stays are fitted with nuts or riveted heads *nut.* working pressure of plating by

rules *106 lbs.* Diameter of stays at smallest part *1 1/4"* working pressure of ditto by rules *106* end plates in steam space, thickness *11/16"*

Pitch of stays to ditto *14"* how stays are secured *nut & riv wash.* working pressure by rules *100 lbs.* diameter of stays at

smallest part *2"* working pressure by rules *144 lbs.* Front plates at bottom, thickness *11/16"* Back plates, thickness *11/16"*

Greatest pitch of stays *10* working pressure by rules *172 lbs.* Diameter of tubes *3 1/2"* pitch of tubes *5* thickness of tube

plates, front *5/8"* back *5/8"* how stayed *St. tubes* pitch of stays *10"* width of water spaces *10"*

Diameter of Superheater or Steam chest *2' 3"* length *2' 6"* thickness of plates *3/8"* description of longitudinal joint *double lap.* diam. of rivet holes *13/16"*

Pitch of rivets *2"* working pressure of shell by rules diameter of flue *✓* thickness of plates *✓* If stiffened with rings *✓*

Distance between rings *✓* working pressure by rules *✓* end plates of superheater, or steam chest; thickness *✓* how stayed *✓*

Superheater or steam chest; how connected to boiler *Double nut & riv. 3 3/8" pitch.*

LOW 684-0203

Lloyd's Register
Foundation

48880

NO DONKEY BOILER— Description

Made at _____ by whom made _____ when made _____ where fixed _____
Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ fire grate area _____ description of safety
valves _____ No. of safety valves _____ area of each _____ if fitted with easing gear _____ if steam from main boilers can
enter the donkey boiler _____ diameter of donkey boiler _____ length _____ description of riveting _____
Thickness of shell plates _____ diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ lap of plating _____
per centage of strength of joint _____ thickness of crown plates _____ stayed by _____
Diameter of furnace, top _____ bottom _____ length of furnace _____ thickness of plates _____ description of joint _____
Thickness of furnace crown plates _____ stayed by _____ working pressure of shell by rules _____
Working pressure of furnace by rules _____ diameter of uptake _____ thickness of plates _____ thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,
Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c.)

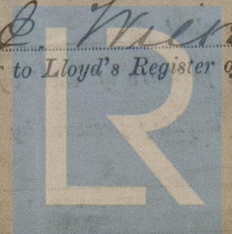
The machinery has been built under Special Survey. Material
& Workmanship good & eligible in my opinion to be marked
in the Register Book with - L.M.C. 12.88
Safety valves set under steam to W.P. of 100lbs & Engines worked
satisfactorily

It is submitted, that this vessel is eligible for L.M.C. 12-88
W.A.
18.12.88

The amount of Entry Fee .. £ 15 : : received by me, at 10/12/88
Special £ : :
Donkey Boiler Fee £ : :
Certificate (if required) .. £ : : 26/2 1889
To be sent as per margin.

Committee's Minute FRIDAY 21 DEC 1888
+ Lmb 12/88

Geo. & W. Wilson
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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