

REPORT ON MACHINERY.

Fitted on this vessel when in the dock
Port of Dublin

1905. 28 FEB 1905

Received at London Office

19

No. in Survey held at Dublin Date, first Survey 15th Dec /04 Last Survey 29th Dec 1904
Reg. Book. "Lillebonne" Yard Number 46 (Number of Visits 7)

on the S.S. "Lillebonne" Tons Gross
Master Dublin Built at Dublin By whom built Dublin Dockyard & Co When built 1904-5
Net

Engines made at Dublin By whom made Dublin Dockyard & Co when made 1904-5
Boilers made at Dublin By whom made Dublin Dockyard & Co when made 1904-5
Registered Horse Power 100 Owners J. J. Harrison London Port belonging to Glasgow
Nom. Horse Power as per Section 28 100 Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines

No. of Cylinders 2 No. of Cranks 2
Dia. of Cylinders 11 1/2" Length of Stroke 12 1/2" Revs. per minute 100 Dia. of Screw shaft 10 1/8" Lgth. of stern bush 3' 10"
Dia. of Tunnel shaft 11 1/2" Dia. of Crank shaft journals 11 1/2" Dia. of Crank pin 11 1/2" Size of Crank webs 10 1/8" Dia. of thrust shaft under collars 9 1/2" Dia. of screw 11 1/2" Pitch of screw 12 1/2" No. of blades 4 State whether moveable No Total surface 48 sq. ft.
No. of Feed pumps 2 Diameter of ditto 11 1/2" Stroke 12 1/2" Can one be overhauled while the other is at work No
No. of Bilge pumps 2 Diameter of ditto 11 1/2" Stroke 12 1/2" Can one be overhauled while the other is at work No
No. of Donkey Engines 2 Sizes of Pumps 2 1/2" No. and size of Suctions connected to both Bilge and Donkey pumps 4 - 2 1/2" to tanks + 4 - 2" wing suction
In Engine Room 4 - 2 1/2" to tanks + 4 - 2" wing suction

No. of bilge injections 2 sizes 2 1/2" Connected to condenser, or to circulating pump No Is a separate donkey suction fitted in Engine room & size 2 1/2"
Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes
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 Yes 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 Hold + Tank suction How are they protected wood casings
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times Yes
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges Yes
When were stern tube, propeller, screw shaft, and all connections examined on the dock Yes Is the screw shaft tunnel watertight no tunnel
Is it fitted with a watertight door Yes worked from Yes

BOILERS, &c.—

(Letter for record on the stock) Total Heating Surface of Boilers 1000 Is forced draft fitted No

No. and Description of Boilers 2 Working Pressure 100 lbs Tested by hydraulic pressure to 150 lbs
Date of test 15 Dec 1904 Can each boiler be worked separately Yes Area of fire grate in each boiler 100 sq. ft. No. and Description of safety valves to each boiler 2 Area of each valve 100 sq. ft. Pressure to which they are adjusted 100 lbs Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 11 1/2" Length 12 1/2" Material of shell plates Iron
Thickness 1/2" Range of tensile strength 20 tons Are they welded or flanged Yes Descrip. of riveting: cir. seams Yes long. seams Yes
Diameter of rivet holes in long. seams 1/2" Pitch of rivets 12" Lap of plates or width of butt straps 12"
Per centages of strength of longitudinal joint 100% Working pressure of shell by rules 100 lbs Size of manhole in shell 12"
Size of compensating ring 12" No. and Description of Furnaces in each boiler 2 Material Iron Outside diameter 12"
Length of plain part 12" Thickness of plates 1/2" Description of longitudinal joint Butt No. of strengthening rings 2
Working pressure of furnace by the rules 100 lbs Combustion chamber plates: Material Iron Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2"
Pitch of stays to ditto: Sides 12" Back 12" Top 12" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 100 lbs
Material of stays Iron Diameter at smallest part 12" Area supported by each stay 100 sq. ft. Working pressure by rules 100 lbs End plates in steam space: Yes
Material Iron Thickness 1/2" Pitch of stays 12" How are stays secured By nuts Working pressure by rules 100 lbs Material of stays Iron
Diameter at smallest part 12" Area supported by each stay 100 sq. ft. Working pressure by rules 100 lbs Material of Front plates at bottom Iron
Thickness 1/2" Material of Lower back plate Iron Thickness 1/2" Greatest pitch of stays 12" Working pressure of plate by rules 100 lbs
Diameter of tubes 12" Pitch of tubes 12" Material of tube plates Iron Thickness: Front 1/2" Back 1/2" Mean pitch of stays 12"
Pitch across wide water spaces 12" Working pressures by rules 100 lbs Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 12" Length as per rule 12" Distance apart 12" Number and pitch of Stays in each 2
Working pressure by rules 100 lbs Superheater or Steam chest; how connected to boiler By pipe Can the superheater be shut off and the boiler worked separately Yes
Diameter 12" Length 12" Thickness of shell plates 1/2" Material Iron Description of longitudinal joint Butt Diam. of rivet holes 1/2" Pitch of rivets 12" Working pressure of shell by rules 100 lbs Diameter of flue 12" Material of flue plates Iron Thickness 1/2"
If stiffened with rings Yes Distance between rings 12" Working pressure by rules 100 lbs End plates: Thickness 1/2" How stayed By nuts
Working pressure of end plates 100 lbs Area of safety valves to superheater 100 sq. ft. Are they fitted with easing gear Yes

DONKEY BOILER—

No. 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

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tens

strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Lap of plating

Per centage of strength of joint

Rivets

Thickness of shell crown plates

Radius of do.

No. of Stays to do.

Dia. of stays.

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Description

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 uptake plates

Thickness of water tubes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

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

The Sea Cocks, Stern Tube & bush are well fitted & fastened, tail & Thrust shafts fitted in place. Propeller in place & well fastened.

Material of screw shaft Iron Is the screw shaft fitted with a continuous liner the whole length of the stern tube no. 2 lin
Is the after end of the liner made water tight in the propeller boss yes If the liner is in more than one length are the joints burned
If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive
If two liners are fitted, is the shaft lapped or protected between the liners not lapped or protected

Forge Certificate of Shafting attached.

Certificate (if required) to be sent to

The amount of Entry Fee. . . £ : : When applied for,
Special £ : :
Donkey Boiler Fee £ : : When received,
Travelling Expenses (if any) £ : :
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Committee's Minute

FRI. 3 MAR 1905

Assigned

John Macwilliam
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



Lloyd's Register
Foundation