

REPORT ON MACHINERY.

as fitted in the vessel before being launched in the
Port of Dublin

Received at London Office _____

No. in Survey held at Dublin Date, first Survey 27th July Last Survey 8th Sept 1904.
Reg. Book. _____ (Number of Visits 9)
on the SS "Bay Fisher" (No 45) Tons Gross
Master _____ Built at Dublin By whom built Dublin Dockyard Co When built 1904
Engines made at _____ By whom made _____ when made _____
Boilers made at _____ By whom made _____ when made _____
Registered Horse Power _____ Owners _____ Port belonging to _____
Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted _____ Is Electric Light fitted _____

ENGINES, &c.—Description of Engines

No. of Cylinders _____ No. of Cranks _____

Dia. of Cylinders _____ Length of Stroke _____ Revs. per minute _____ Dia. of Screw shaft ^{as per rule} 9 1/2" Lgth. of stern bush 3' 3"
Dia. of Tunnel shaft ^{as fitted} _____ Dia. of Crank shaft journals ^{as per rule} _____ Dia. of Crank pin _____ Size of Crank webs _____ Dia. of thrust shaft under collars 9" Dia. of screw 1 1/2" Pitch of screw 16 No. of blades 4 State whether moveable yes Total surface 36 sq. ft.
No. of Feed pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
No. of Bilge pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
No. of Donkey Engines _____ Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____
In Engine Room _____ In Holds, &c. Two 2" to sides of Hold. Two 3" to Ballast tank & one 2" to Fore Peak Tanks ✓
No. of bilge injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate donkey suction fitted in Engine room & size _____
Are all the bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____ Are the sluices on Engine room bulkheads always accessible _____
Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both Valves & Cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ 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 Ballast & F.P. & bilge suction How are they protected with wood casings
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times _____
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges _____
When were stern tube, propeller, screw shaft, and all connections examined on the stocks in dry dock in July & Aug 1904 Is the screw shaft tunnel watertight yes
Is it fitted with a watertight door yes worked from in Sept in Dublin Harb

BOILERS, &c.—

(Letter for record _____)

Total Heating Surface of Boilers _____

Is forced draft fitted _____

No. and Description of Boilers _____

Working Pressure _____

Tested by hydraulic pressure to _____

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

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 boiler

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of 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 Descrip.

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 { During progress of
of Survey { work in shops - -
while { During erection on
building { 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. All inlet & outlet sea cocks, & valves are well fitted & efficient. Stem tube & bush are securely fastened & are also well fitted. Propeller, & its shaft examined, & found in good ^{efficient} condition, in place.)

Material of screw shaft Iron Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes

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 non-corrosive ✓ If two liners are fitted, is the shaft lapped or protected between the liners ✓

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee..	£	:	When applied for,
Special	£	:	19.....
Donkey Boiler Fee	£	:	When received,
Travelling Expenses (if any) £	:	:	19.....

Committee's Minute
Assigned

FRI. 21 OCT 1904

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

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Lloyd's Register
Foundation