

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. on the S.S. "Bay Fisher" (No 45) Tons ^{Gross} _{Net}
 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

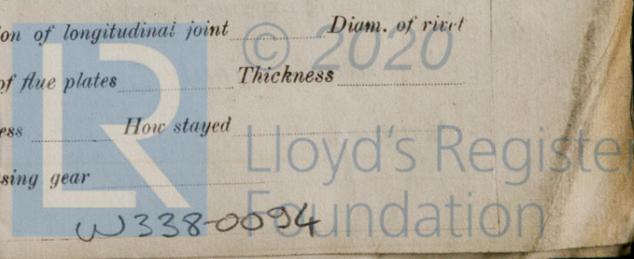
Dia. of Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft ^{as per rule} _{as fitted} 9 1/2" Lgth. of stern bush 3' 3"
 Dia. of Tunnel shaft ^{as per rule} _{as fitted} Dia. of Crank shaft journals ^{as per rule} _{as fitted} Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under collars 9" Dia. of screw Pitch of screw No. of blades 4 State whether moceable 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 & afloat in Sept in Dublin Har Is the screw shaft tunnel watertight
 Is it fitted with a watertight door worked from

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} _{bottom} 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 casing gear

If not, state whether, and when, one will be sent? In a Report also sent on the Hull of the Ship?



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 work in shops - - }
of Survey { During erection on board vessel - - }
while building { 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 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 registered) 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.....

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

Committee's Minute

FRI. 21 OCT 1904

Assigned



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