

Port of

Belfast

Received at London Office

TUES. 15 MAY 1906

No. in Survey held at

Reg. Book.

on the

Date, first Survey

June 1st

Last Survey

7th May 1906

(Number of Visits 35)

Master

Built at

By whom built

Engines made at

By whom made

Boilers made at

By whom made

Registered Horse Power

Owner

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Dia. of Cylinders

18"-30"-50"

Length of Stroke

36"

Revs. per minute

80

Dia. of Screw shaft

as per rule

as fitted

Material of screw shaft

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

Is the after end of the liner made water tight in the propeller boss

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

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

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

No. of Bilge Injections

/ sizes

Connected to condenser, or to circulating pump

Are all the bilge suction pipes fitted with roses

Are all connections with the sea direct on the skin of the ship

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

What pipes are carried through the bunkers

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

Dates of examination of completion of fitting of Sea Connections

Is the Screw Shaft Tunnel watertight

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

Draft fitted

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to each boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Thickness

Range of tensile strength

Are the shell plates 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

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

Thickness of plates

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

VERTICAL DONKEY BOILER-

Manufacturers of Steel

No. *One* Description *Vertical 2 Cross Tubes*
 Made at *Belfast* By whom made *Masce & Co Ltd* When made *1906* Where fixed *Stokeholm*
 Working pressure *100 lbs* by hydraulic pressure to *200 lbs* Date of test *12-1-06* No. of Certificate *370* Fire grate area *13 sq ft* Description of Safety
 Valves *Direct Spring* No. of Safety Valves *2* Area of each *3 1/4 sq in* pressure to which they are adjusted *180 lbs* Date of adjustment *7-5-06*
 If fitted with easing gear *No* If steam from main boilers can enter the donkey boiler *No* Dia. of donkey boiler *4'-9"* Length *10'-3"*
 Material of shell plates *Steel* Thickness *5/8"* Range of tensile strength *28-32* Descrip. of riveting long. seams *Lap Ribs*
 Dia. of rivet holes *7/8"* Whether punched or drilled *Drilled* Pitch of rivets *2 1/4"* Lap of plating *3 1/2"* Per centage of strength of joint *72.5*
 Working pressure of shell by rules *100 lbs* Thickness of shell crown plates *7/8"* Radius of do. *4'-9"* No. of stays to do. *6* Dia. of stays *1 1/2"*
 Diameter of furnace Top *3'-7 1/2"* Bottom *4'-3 1/2"* Length of furnace *4'-9"* Thickness of furnace plates *7/8"* Description of joint *Lap Ribs*
 Working pressure of furnace by rules *118 lbs* Thickness of furnace crown plates *7/8"* Stayed by *to shell crown*
 Diameter of uptake *13"* Thickness of uptake plates *1/2"* Thickness of water tubes *3/8"* Dates of survey *9/8/05 to 7/5/06*

SPARE GEAR.

State the articles supplied:-

2 Connecting Rods, 2 Cross-heads, 2 Main Bearings, 6 coupling do., 6 pump ring do., 10 air, feed, circulating & bilge pump valves, 20 essential rod strap complete, boiler check valves, safety valve spring, 10 condenser tubes, 10 boiler tubes, 100 lbs.
Iron, Bolts.

The foregoing is a correct description,

Masce & Co Ltd Manufacturer.

Dates of Survey
 During progress of work in shops - *June 1, 15, July 4, Aug. 8, 14, 21, 22, 29, 31, Sep. 13, 20, Oct. 12, 23, Nov. 3, 20, Dec. 4, 13, 19, Jan. 11, 12, Feb. 1, 9*
 During erection on board vessel - *13, 21, 28, Mar. 9, 27, 30, April, 2, 5, 10, 17, 19, 23, May 7*
 building
 Total No. of visits *35*

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts - Cylinders *15-6-05* Slides *5* 9 Cylinders - *06* Pistons *also* Rods *also*
 Connecting rods *also* Crank shaft *also* Thrust shaft *also* Tunnel shafts *also* Screw shaft *also* Propeller *also*
 Stern tube *17-2-06* Steam pipes tested *19-4-06* Engine and boiler seatings *27-3-06* Engines holding down bolts *17-4-06*
 Completion of pumping arrangements *17-4-06* Boilers fixed *✓* Engines tried under steam *7-5-06*
 Main boiler safety valves adjusted *7-5-06* Thickness of adjusting washers *1/8"*
 Material of Crank shaft *Steel* Identification Mark on Do. *16-10-15 J.W.B.* Material of Thrust shaft *Steel* Identification Mark on Do. *R.F.B.*
 Material of Tunnel shafts *Steel* Identification Marks on Do. *2-3-4 R.F.B.* Material of Screw shafts *Steel* Identification Marks on Do. *R.F.B.*
 Material of Steam Pipes *W-Iron* Test pressure *600 lbs*

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

These engines have been constructed under Special Licence, and in accordance with the Rules. They have been securely fitted on board, and on trial, in Belfast Lough, they worked satisfactorily. The Boilers were examined under steam, and found efficient. See Belfast Report No. 23953.

In my opinion, the machinery of this vessel, is eligible for record + L.M.C. 5-06.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 5.06 ELEC. LIGHT.

The amount of Entry Fee. . . £ *2* : - :
 Special *(£ 9-4-0 due to office)* £ *27* : *12* :
 Donkey Boiler Fee . . . £
 Travelling Expenses (if any) £

When applied for, *11-5-1906*

When received, *17/5/06*

Committee's Minute

Assigned

MAY 22 1906

R. L. Beveridge
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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