

Date of writing Report 30 May 1916 when handed in at Local Office 30 May 1916 Port of Boston Received at London Office WED. 14 JUN. 1916

No. in Survey held at Quincy, Mass. Date, First Survey 30 Aug 1915 Last Survey 27 May 1916

Reg. Book. CUBADIST (Number of Visits 55) Gross 5788 Tons Net 3606

Master J. Van Gilder Built at Quincy, Mass. By whom built Fore River S. B. Corporation When built 1916

Engines made at Quincy, Mass. By whom made Fore River S. B. Corporation when made 1916

Boilers made at Buffalo, N. Y. By whom made Lake Erie Boiler Works when made 1916

Registered Horse Power ✓ Owners Cuba Distilling Co. Port belonging to New York

Nom. Horse Power as per Section 28 488 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 25" - 41" - 68" Length of Stroke 48" Revs. per minute 75 Dia. of Screw shaft 14 1/4" Material of steel

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 and non-corrosive ✓ If two

liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 5'-0"

Dia. of Tunnel shaft as per rule 12.92 Dia. of Crank shaft journals as per rule 13.56 Dia. of Crank pin 14" Size of Crank webs 26 x 9 1/2" Dia. of thrust shaft under

collars 14 1/2" Dia. of screw 17'-6" Pitch of Screw 16'-3" No. of Blades 4 State whether moveable yes Total surface 121 1/2 sq ft

No. of Feed pumps 2 independent Diameter of ditto 10 x 7" Stroke 24" Can one be overhauled while the other is at work yes

No. of Bilge pumps 3 independent Diameter of ditto 6 x 6" Stroke 6" Can one be overhauled while the other is at work yes

No. of Donkey Engines 3 as above + 3 Sizes of Pumps 10 x 12 and 12 and 12 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 5-3 1/2" In Holds, &c. Coal Bunker 2-3 1/2" In Holds

oil cargo pumping system

No. of Bilge Injections 1 sizes 10" Connected to main discharge or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 4"

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 none

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 yes Are the Discharge Pipes above or below the deep water line below

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 Coal bunker suction & Deck steam pipes How are they protected Wooden & iron 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

Dates of examination of completion of fitting of Sea Connections 4 Apr 1916 of Stern Tube 6 Apr 1916 Screw shaft and Propeller 7 April 1916

Is the Screw Shaft Tunnel watertight no tunnel Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record no tunnel) Manufacturers of Steel As per Cleveland report No 57 see with

Total Heating Surface of Boilers 1407 Is Forced Draft fitted yes No. and Description of Boilers 3 Single Ended

Working Pressure 190 lbs Tested by hydraulic pressure to 285 lbs Date of test 18/10/15 No. of Certificate 48

Can each boiler be worked separately yes Area of fire grate in each boiler 55 sq ft No. and Description of Safety Valves to

each boiler 2 spring loaded Area of each valve 9.30 Pressure to which they are adjusted 190 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork abt 1'-0" Mean dia. of boilers ✓ Length ✓ Material of shell plates

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 top bottom Thickness of plates top 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 the 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 ✓ Distance apart ✓ Number and pitch of stays in each ✓

Working pressure by rules ✓ Superheater or Steam chest; how connected to boiler none 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 donkey boiler

No.	Description	When made	Where fixed
Made at	By whom made	No. of Certificate	Fire grate area
Working pressure	tested by hydraulic pressure to	Date of test	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 can enter the donkey boiler	Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey

SPARE GEAR. State the articles supplied:—2 connecting rod top end bolts & nuts, 2 connecting rod bottom end bolts & nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set feed & bilge pump valves, spare piston rings, assorted bolts, nuts & washers. Section of crank shaft, propeller shaft, 4 propeller blades, 1 pair crank pin brasses, 1 pair crosshead brasses, 1 pair link brasses, 1 eccentric strap complete, air pump rod & bucket, 1 ahead eccentric rod, 1 set of check valves, cylinder cover bolts, junk ring bolts, valve chest cover bolts, boiler tubes & condenser tubes.

The foregoing is a correct description,
FORE RIVER SHIP-BUILDING CORP.

By—*[Signature]* Manufacturer.

Dates of Survey while building
During progress of work in shops — 1915 Aug 30 Oct 16 Nov 6, 8, 11, 17, 23, 29, Dec 2, 9, 15, 16, 22, 23, 30 1916 Jan 6, 7, 10, 11, 22, 25 Feb 3, 10, 15, 24, 29
During erection on board vessel — April 4, 11, 13, 16, 18, 20, 22, 25, 28 May 1, 12, 13, 18, 22, 23, 24, 25, 26, 27
Total No. of visits 55

Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders 11/3/16 Slides 18/4/16 Covers 18/4/16 Pistons 18/4/16 Rods 18/4/16
Connecting rods 31/3/16 Crank shaft 29/3/16 Thrust shaft 29/3/16 Tunnel shafts ✓ Screw shaft 5/4/16 Propeller 5/4/16
Stern tube 31/3/16 Steam pipes tested 13/5/16 Engine and boiler seatings 4/4/16 Engines holding down bolts 12/5/16
Completion of pumping arrangements 12/5/16 Boilers fixed 12/5/16 Engines tried under steam 26/5/16
Main boiler safety valves adjusted 23/5/16 Thickness of adjusting washers Port For 1 1/4" Aft 1 1/4" Centre 1 3/8" Starboard 1 3/8"
Material of Crank shaft Steel Identification Mark on Do. 118 Material of Thrust shaft Steel Identification Mark on Do. 118
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 118
Material of Steam Pipes Steel Lap welded ✓ Test pressure 570 lbs. ✓

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery & boilers of this vessel have been built & fitted on board under Special Survey in accordance with the Rules & approved plans & the workmanship & material are good throughout. They have been satisfactorily tried under steam & the machinery & boilers, in my opinion, are eligible to receive the notation + LMC 5.16 + FD in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + LMC 5.16. F.D.

The amount of Entry Fee .. £ \$ 15.00
Special 2/3 .. £ 148.00
Donkey Boiler Fee .. £
Travelling Expenses (if any) £ 10.30

When applied for, 1916

When received, 29.6.16

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

Committee's Minute FRI. JUN. 23. 1916

Assigned

MACHINERY CERTIFICATE
UNITED



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Foundation