

REPORT ON MACHINERY.

Port of Newport News

Received at London Office FRI. 6 JUL 1890

No. in Survey held at Newport News

Date, first Survey 5th Mar '00 Last Survey 29th June 1890

Book. on the Steel Lug "Victory"

(Number of Visits 8)

Tons ^{Gross} 76.37
_{Net} 14.56

Master A. Spurrier Built at Salmon By whom built Cox & Co

When built 1900

Machinery made at Newport By whom made R. Arthur & Son

When made 1900-3

Boilers made at Salmon By whom made Cox & Co

When made 1900

Registered Horse Power 44 Owners Messrs R. Arthur & Son

Port belonging to Newport

Net Horse Power as per Section 28 44

ENGINES, &c.— Description of Engines Compound, direct acting, surface condensing No. of Cylinders Two 6:07

Diameter of Cylinders 15 1/2" and 28" Length of Stroke 21" Revolutions per minute 135 Diameter of Screw shaft 5 7/8"

Diameter of Tunnel shaft 6" Diameter of Crank shaft journals 6 1/4" Diameter of Crank pin 6 1/4" Size of Crank webs 12" x 4 1/4"

Diameter of screw 7-8" Pitch of screw 9-9" No. of blades 4 State whether moveable no Total surface 18.2 sq ft

No. of Feed pumps one Diameter of ditto 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work ✓

No. of Bilge pumps one Diameter of ditto 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work ✓

No. of Donkey Engines one Sizes of Pumps 3 1/2" Raw, 4" Stroke No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room Two - 2" dia In Holds, &c. One forward, one aft, 2" dia.

No. of bilge injections one sizes 2" Connected to condenser, or to circulating pump C.P. Is a separate donkey suction fitted in Engine room & size Yes - 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 Valves and 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 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

How are pipes carried through the bunkers None How are they protected ✓

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

Were the stern tube, propeller, screw shaft, and all connections examined in dry dock March 1900 Is the screw shaft tunnel watertight None fitted

Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.— (Letter for record) Total Heating Surface of Boilers

Name and Description of Boilers Working Pressure Tested by hydraulic pressure to

Time of test Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to

Name of boiler Area of each valve Pressure to which they are adjusted Are they fitted

With casing gear Smallest distance between boilers or uptakes and bunkers or woodwork Mean diameter of boilers

Length Material of shell plates Thickness Description of riveting: circum. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Percentages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

No. 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

No. 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

Clearance 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

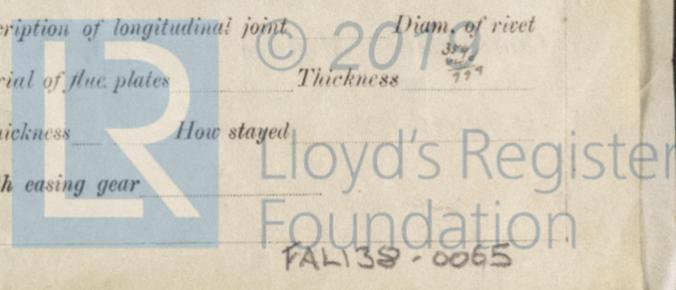
Working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

Material Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

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



DONKEY BOILER— 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 casing gear _____ If steam from main boilers _____
 enter the donkey boiler _____ Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
 Description of riveting long. seams _____ Diameter 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 _____ Descriptio _____
 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:—

J. D. Smith & Son
 Newcastle Engin Works
 Newport

The foregoing is a correct description,
 Manufacturer.

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

The castings and forgings for this vessel's machinery, were made by Messrs Bre and Co, Salmouth, and machined by Messrs R. Arthur & Co of this port, and all materials and workmanship and materials are of good quality.
 The main boiler safety valves have been regulated under steam to a working pressure of 110 lbs per square inch, and the engine runs working in a satisfactory manner, and I am in my opinion to have the notation **L.M.C. 3-00** now recorded.

It is submitted that this vessel is eligible for THE RECORD. **L.M.C. 6.00**

C.M.
 6.7.00

J.S.
 6.7.00

Certificate (if required) to be sent to

W. D. Smith
 Newport

The amount of Entry Fee.	£ 1 : 0 : 0	When applied for,	
Special	£ 4 : 0 : 0	5 th July 1900	1.9.00
Donkey Boiler Fee	£ :	When received,	
Travelling Expenses (if any)	£ :	31-8-00	

H. H. Ashton
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **FRI. 13 JUL 1900**

Assigned

+ £ m c 6, 00

MACHINERY CERTIFICATE WRITTEN.



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The Surveys are requested not to write on or below the space for Committee's Minute.