

REPORT ON MACHINERY.

Port of *Newport News*Received at London Office *FRI. 6 JUL 1901*No. in Survey held at *Newport News*Date, first Survey *5th Mar '00* Last Survey *29th June 1890*

Book.

(Number of Visits *8*)on the *Steel Lug "Victory"*Tons *Gross 76.37**Net 14.56*When built *1900*Owner *A. Spurrer* Built at *Falmouth* By whom built *Cox & Co*Engines made at *Newport* By whom made *R. Arthur & Son* when made *1900-3*Boilers made at *Falmouth* By whom made *Cox & Co* when made *1900*Registered Horse Power Owners *Messrs R. Arthur & Son* Port belonging to *Newport*Horse Power as per Section 28 *44.5*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 *as per rule 5.78*Diameter of Tunnel shaft *as per rule 6.49* 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" Ram, 4" stroke* No. and size of Suctions connected to both Bilge and Donkey pumpsEngine 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*When were 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 *March 1900*) Total Heating Surface of Boilers

and Description of Boilers Working Pressure Tested by hydraulic pressure to

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

No. of boiler Area of each valve Pressure to which they are adjusted Are they fitted

No. of 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

Girders 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

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 easing gear

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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 _____ Description _____

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.

*L. J. Smith & Son
Newcastle Engin Works
Newport.*

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, Lalmouth, 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 engines run working in a satisfactory manner. and also 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*

*L.S.
6.7.00*

Certificate (if required) to be sent to

The amount of Entry Fee. £ 1 : 0 : 0 When applied for, 5th July 1900 1.9.00

Special £ 4 : 0 : 0

Donkey Boiler Fee £ : : : When received, 31-8-00

Travelling Expenses (if any) £ : : :

Committee's Minute

FRI. 13 JUL 1900

Assigned

+ L.M.C. 6.00

MACHINERY CERTIFICATE
WRITTEN.



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