

REPORT ON MACHINERY

No. 46

(Received in London Office)

15th MAY, 1882

No. in Survey held at Genoa
Reg. Book.

Date, first Survey 21/3/82

Last Survey 24/3 1882

on the Steam lighter "Roma"

Tons 78
56

Master Cappilino

Built at Sampurdarna

When built 1882

Engines made at Sampurdarna

By whom made Sis. Ansaldo & Co when made 1882

Boilers made at Off. is

By whom made is when made 1882

Registered Horse Power

Owners A & G. Cappilino Brothers

Port belonging to Genoa

ENGINES, &c.—

Description of Engines Comp. Inverted. D. A. Twin screws. Two separate engines

Diameter of Cylinders 7" 1/2 - 13 1/8 Length of Stroke 9" No. of Rev. per minute 360 Point of Cut off, High Pressure 5/16 Low Pressure 6/16

Diameter of Screw shaft 2 1/16 Diameter of Tunnel shaft 2 1/16 Diameter of Crank shaft journals 2 1/16 Diameter of Crank pin 2 1/16 size of Crank webs 1 1/8 x 3 3/16

Diameter of screw 4" 1/2 Pitch of screw 3' 3" 3/8 No. of blades 4 state whether moveable no total surface 3.97 ft²

No. of Feed pumps 1 diameter of ditto 1 3/4 Stroke 3 3/16 Can one be overhauled while the other is at work yes

No. of Bilge pumps 1 diameter of ditto 1 3/4 Stroke 3 3/16 Can one be overhauled while the other is at work yes

Where do they pump from all bilges and engine room

No. of Donkey Engines Two Giffards Size of Pumps

Where do they pump from Bilges, tank, sea

and one of these serves to feed the boiler

Are all the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible

No. of bilge injections — and sizes — Are they connected to condenser, or to circulating pump —

How are the pumps worked by levers or rocking beams in the usual way

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both

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

What pipes are carried through the bunkers none How are they protected —

Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes

When were stern tube, propeller, screw shaft, and all connections examined in dry dock before launching

Is the screw shaft tunnel watertight no hume and fitted with a sluice door — worked from —

BOILERS, &c.—

Number of Boilers one Description Cylindrical & Tubular

Working Pressure by rule 68 lbs Tested by hydraulic pressure to 180 Date of test 21 March 1882

Description of superheating apparatus or steam chest one cylindrical shell connected to boiler by one neck 14" dia

Can each boiler be worked separately — Can the superheater be shut off and the boiler worked separately no

No. of square feet of fire grate surface in each boiler 12.5 ft² Description of safety valves Locomotive spring valves

No. to each boiler 2 area of each valve 6" dia Are they fitted with easing gear yes

No. of safety valves to superheater — area of each valve — are they fitted with easing gear —

Smallest distance between boilers and bunkers or woodwork —

Diameter of boilers 66" Length of boilers 7' 5" description of riveting of shell long. seams double lap circum. seams single lap

Thickness of shell plates 15/32 diameter of rivet holes 3/4 full whether punched or drilled punched pitch of rivets 2 1/8

lap of plating 2 3/4 x 4 3/4 per centage of strength of longitudinal joint 62 working pressure of shell by rules 68 lbs

size of manholes in shell 16" x 12" size of compensating rings angle iron 3" x 3" x 1/2

No. of Furnaces in each boiler one outside diameter 31" length, top 62" bottom 83"

Thickness of plates 7/16 description of joint single lap if rings are fitted one greatest length between rings 3 feet

Working pressure of furnace by the rules 183 lbs

Combustion chamber plating, thickness, sides 15/32 back 15/32 top 15/32

Pitch of stays to ditto sides 6" x 6" back 6" x 6" top Six girders

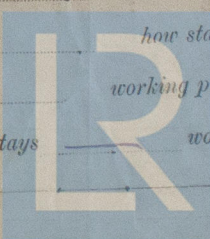
If stays are fitted with nuts or riveted heads rivetted heads working pressure of plating by rules 140 lbs

Diameter of stays at smallest part 0" 90 working pressure of ditto by rules 106 lbs

End plates in steam space, thickness 13/16 pitch of stays to ditto 8" 66 how stays are secured double nuts

Working pressure by rules 230 lbs diameter of stays at smallest part 1" 1/2 working pressure by rules 141 lbs

Front plates at bottom, thickness 12/16 Back plates, thickness 12/16 greatest pitch of stays — working pressure by rules —



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GEN 1112-0028

Diameter of tubes $2\frac{1}{2}$ pitch of tubes $3\frac{3}{8} \times 2\frac{1}{8}$ thickness of tube plates, front $11/16$ back $11/16$
How stayed *stay tubes* pitch of stays $10\frac{1}{8}$ width of water spaces $2\frac{1}{2} \times 4$
Diameter of ~~Superheater or~~ Steam chest 24 length $6' 6\frac{3}{4}$
Thickness of plates $6/16$ description of longitudinal joint *single lap* diameter of rivet holes $3/4$ full pitch of rivets 2
Working pressure of shell by rules 125 Diameter of flue 18 thickness of plates
If stiffened with rings distance between rings Working pressure by rules
End plates of ~~superheater, or~~ steam chest; thickness $7/16$ How stayed *No Stay - Elliptical ends*
~~Superheater or~~ steam chest; how connected to boiler *By one neck 14 " diam of $1\frac{1}{2}$ " plate, rivetted to boiler & steam chest*

DONKEY BOILER—

Description

No Donkey Boiler

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
If fitted with easing gear If steam from main boilers can enter the donkey boiler
Diameter of donkey boiler length description of riveting
thickness of shell plates diameter of rivet holes whether punched or drilled
pitch of rivets lap of plating per centage of strength of joint
thickness of crown plates stayed by
Diameter of furnace, top bottom length of furnace
thickness of plates description of 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 plates thickness of water tubes

The foregoing is a correct description,

Manufacturer.

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

The workmanship & materials employed in the construction of the Engines & Boiler are of the best description and are now in good and safe working condition and eligible in my opinion to be noted in the Register Book & Lloyd's M. C. 4.82 noted

Francis Westerman

It is submitted that this vessel is eligible to have the certificate & to be noted in the Register Book & Lloyd's M. C. 4.82 noted

The amount of Entry Fee .. £ $1 : 0 : 0$ received by me,
Special .. £ $8 : 0 : 0$
Certificate (if required) .. £ $2 : 6$ 18
To be sent as per margin.
(Travelling Expenses, if any, £ $2, 0, 0$.)

Committee's Minute

Tuesday, 16th May, 1882

+ Lloyd's M. C. 4.82

Robert Edmund Taylor & Son, Printers, 12, Old Street, Goswell Road, London, E.C.

Francis Westerman

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



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