

REPORT ON MACHINERY.

Port of *Genoa*

No. *946*

No. in Survey held at *Genoa*
Reg. Book.

Date, first Survey *13.4.91*

Last Survey *26.8. 1891*

(Number of Visits)

on the *S. S. Utan*

Tons *605-391*

Master *Borrone* Built at *Varazze* By whom built *L. Duranti*

When built *1891-7*

Engines made at *Birmingham* By whom made *J. Watt & Co*

when made *1881*

Boilers made at *Sampierdarena* By whom made *Roncallo*

when made *1891*

Registered Horse Power *50 HP* Owners *Francesco Gaggino*

Port belonging to *Genoa*

ENGINES, &c.—

Description of Engines *Inverted, direct acting Compound.*

Diameter of Cylinders *18" - 34 1/4* Length of Stroke *21"* No. of Rev. per minute *70* Point of Cut off, High Pressure *0.6* Low Pressure *—*

Diameter of Screw shaft *6"* Diam. of Tunnel shaft *6"* Diam. of Crank shaft journals *6"* Diam. of Crank pin *6"* size of Crank webs *—*

Diameter of screw *9.10"* Pitch of screw *13 feet* No. of blades *4* state whether moveable *no* total surface *—*

No. of Feed pumps *one* diameter of ditto *1 3/4* Stroke *21"* Can one be overhauled while the other is at work *—*

No. of Bilge pumps *one* diameter of ditto *1 3/4* Stroke *21"* Can one be overhauled while the other is at work *—*

Where do they pump from *from bilges*

No. of Donkey Engines *one* Size of Pumps *4"*

Where do they pump from *from bilges, sea & 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 *can be worked by hand (one letter no)*

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 (1)*

Are the discharge pipes above or below the deep water line *yes*

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 *no*

What pipes are carried through the bunkers *circulating discharge*

How are they protected *by an iron casing*

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 *on the 14th of July before launching*

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

BOILERS, &c.—

Number of Boilers *one* Description *ordinary tubular* Whether Steel or Iron *Steel*

Working Pressure *75 lbs* Tested by hydraulic pressure to *150 lbs* Date of test *4.5.91*

Description of superheating apparatus or steam chest *Circular chest on boiler*

Can each boiler be worked separately *—* Can the superheater be shut off and the boiler worked separately *—*

No. of square feet of fire grate surface in each boiler *32 feet* Description of safety valves *Spring* No. to each boiler *two*

Area of each valve *13"0* 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 *18"*

Diameter of boilers *12 1/4"*

Length of boilers *40' 2"* description of riveting of shell long. seams *treble* circum. seams *double* Thickness of shell plates *1 1/4"*

Diameter of rivet holes *1"* whether punched or drilled *drilled* pitch of rivets *3" 12* Lap of plating *7"*

Percentage of strength of longitudinal joint *40* working pressure of shell by rules *118 lbs* size of manholes in shell *15" x 11"*

Size of compensating rings *doubtless plate* No. of Furnaces in each boiler *two*

Outside diameter *40 3/8* length, top *6' 6"* bottom *8' 6"* thickness of plates *8/16* description of joint *single lap* if rings are fitted *one*

Greatest length between rings *43"* working pressure of furnace by the rules *157 lbs* combustion chamber plating, thickness, sides *8/16* back *8/16* top *8/16*

Pitch of stays to ditto, sides *8"* back *8"* top *circ* If stays are fitted with nuts or riveted heads *riveted (2)* working pressure of plating by rules *100 lbs*

Diameter of stays at smallest part *1 1/16 full* working pressure of ditto by rules *90 lbs* end plates in steam space, thickness *10/16* front *7/16*

Pitch of stays to ditto *14" x 15"* how stays are secured *doubt. nuts & plates* working pressure by rules *85 lbs* diameter of stays at smallest part *2"*

working pressure by rules *125 lbs* Front plates at bottom, thickness *10/16* Back plates, thickness *10/16*

Greatest pitch of stays *8"* working pressure by rules *100 lbs* Diameter of tubes *3" 1/4* pitch of tubes *4" 1/4* thickness of tube plates, front *3/4* back *3/4*

how stayed *by tubes* pitch of stays *8" 1/2 x 13 3/4* width of water spaces *1"*

Diameter of Superheater or Steam chest *55"* length *52"* thickness of plates *8/16* description of longitudinal joint *doub. lap* diam. of rivet holes *1 1/4"*

Pitch of rivets *2 1/4* working pressure of shell by rules *114 lbs* diameter of flue *—* thickness of plates *—* If stiffened with rings *—*

Distance between rings *—* working pressure by rules *—* end plates of superheater, or steam chest; thickness *10/16* how stayed *four 1 1/8 stays*

Superheater or steam chest; how connected to boiler *by double riveted flange*

GEN1113-0050

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 _____ 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 _____

SPARE GEAR. State the articles supplied:—

Two top end
 Two main bearing bolts - 1 set of coupling bolts - One set of feed &
 Bilge pump valves - One set of piston springs - One piston rod, one air & circula-
 The foregoing is a correct description, = ting ditto - one feed & bilge pump plungers, 12 Boiler
 Manufacturer. 20 condenser tubes, grate bars, &c -

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

The engines were made by J. Watt & Co and fitted on board the
 "Sidi David" which was wrecked near Tunis. They were saved
 brought here and before placing them in this vessel were thoroughly
 overhauled & are now in good working order -
 - The tail shaft & propeller are new.
 - The Machinery & Boiler are now in good working order &
 worthy to be recorded B & M.S. 8.91 in red in the Register
 Book
 The steel plates were made here by Messrs Raggio
 & Ratto & tested by M^{rs} Schiaffino.

(1) The donkey sea cock is under the stake hold plate
 (2) There are two rows of nutted stays as required by amended
 Tracing
 The Safety Valves were set under steam.

It is submitted that this vessel will be
 eligible to have B & M.S. 8.91 fitted 91
 when a bilge injection has been fitted -
 The Surveyor should be requested to state if the
 pumps in the main engines are worked - and him the
 also to explain how the donkey sea cock
 was not fitted above the boiler - which is
 as required by the rules - also to state if there
 is a diving bell in the vessel.

The amount of Entry Fee . . . £ 1 : 0 : 0 received by me,
 Special . . . £ 8 : 0 : 0
 Donkey Boiler Fee . . . £ : :
 Certificate (if required) . . . £ : Yes: 18
 To be sent as per margin.

(Travelling Expenses, if any, £ 5.0.0)

Committee's Minute

TUES. 1 DEC 1891

FRI 18 DEC 1891

Deferred

B & M.S. 8.91 re-fitted 91
 + NB 91

It is submitted that the vessel is
 eligible to have B & M.S. 8.91.
 NB 91 fitted 91 and NB 91 recorded
 Francis Westerman
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

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