

2091

pt. 4.

No. 2091

REPORT ON MACHINERY



Port of *Genoa*

THUR. 2 AUG 1900
Received at London Office

No. in Survey held at *Genoa* Date, first Survey *April 7th* Last Survey *July 30th 1900*
 Range of tensg. Book. on the *Doubliey Boiler of the S.S. "Manin"* (Number of Visits *6*)
 Master *C. Camoglio Cornelio* Built at *Astria* By whom built *H. Oders fu a* Tons { Gross *2782.39*
 Description Engines made at *Astria* By whom made *H. Oders fu a* when made *1900*
 when made *1900*
 Registered Horse Power *221* Owners *Societa' Veneziana di Navigazione* Port belonging to *Venice*
 m. Horse Power as per Section 28 *221* Is Refrigerating Machinery fitted *No* Is Electric Light fitted *Yes*

ENGINES, &c.—Description of Engines

No. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	No. of Cranks	Lgth. of stern bush
<i>2</i>	<i>24"</i>	<i>100</i>	<i>8-4 23/64</i>	<i>2</i>	<i>8-9 7/16</i>

... all connections with the sea direct on the skin of the ship ...
 ... they each fitted with a discharge valve always accessible on the plating of the vessel ...
 ... Is the screw shaft tunnel watertight

BOILERS, &c.— (Letter for record *S*) Total Heating Surface of Boilers *540 sq ft* Is forced draft fitted *No*
 No. and Description of Boilers *One ordinary Thornycroft - Working Pressure 100* Tested by hydraulic pressure to *200*
 Date of test *28-4-00* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *21.5 sq ft* No. and Description of safety valves to
 each boiler *2 Spring* Area of each valve *3.4 sq in* Pressure to which they are adjusted *100* Are they fitted with easing gear *Yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *24"* Mean dia. of boilers *8-4 23/64* Length *8-9 7/16* Material of shell plates *Steel*
 Thickness *35/64* Range of tensile strength *28-32* Are they welded or flanged *No* Descrip. of riveting: cir. seams *Double* long. seams *Double Lap*
 Diameter of rivet holes in long. seams *63/64* Pitch of rivets *4"* Lap of plates or width of butt straps *3"*
 Percentages of strength of longitudinal joint
 rivets *91.25* Working pressure of shell by rules *100* Size of manhole in shell *15" x 11"*
 plate *75.5*
 Length of plain part *4 x 3/4* No. and Description of Furnaces in each boiler *2 Plain* Material *Steel* Outside diameter *29.59*
 Thickness of plates *15/32* Description of longitudinal joint *Single Lap* Plate *17 Bar at bottom, end of*
 Working pressure of furnace by the rules *106.75* Combustion chamber plates: Material *Steel* Thickness: Sides *4/16* Back *4/16* Top *4/16* Bottom *4/16*
 Pitch of stays to ditto: Sides *6 11/16 x 6 11/16* Back *6 11/16 x 6 11/16* Top *8 1/4 x 6 11/16* If stays are fitted with nuts or riveted heads *Yes* Working pressure by rules *109.5*
 Material of stays *Steel* Diameter at smallest part *1 1/8 x 1"* Area supported by each stay *66.9* Working pressure by rules *143.0* End plates in steam space:
 Material *Steel* Thickness *45/64* Pitch of stays *16 1/2 x 16 1/2* How are stays secured *Rin washers* Working pressure by rules *102.6* Material of stays *Steel*
 Diameter at smallest part *2 5/32* Area supported by each stay *272* Working pressure by rules *121* Material of Front plates at bottom *Steel*
 Thickness *45/64* Material of Lower back plate *Steel* Thickness *45/64* Greatest pitch of stays *11"* Working pressure of plate by rules *100*
 Diameter of tubes *3 3/4* Pitch of tubes *4 1/32* Material of tube plates *Steel* Thickness: Front *45/64* Back *39/64* Mean pitch of stays *12 4/8*
 Working pressures by rules *None* Girders to Chamber tops: Material *Steel* Depth and
 Thickness of girder at centre *7 3/32 x 1 13/32* Length as per rule *2 6 11/16* Distance apart *8 1/4* Number and pitch of Stays in each *2 - 6 11/16*
 Working pressure by rules *282* Superheater or Steam chest; how connected to boiler *None* Can the superheater be shut off and the boiler worked
 separately *Yes* Diameter *Yes* Length *Yes* Thickness of shell plates *Yes* Material *Yes* Description of longitudinal joint *Yes* Diam. of rivet
 Pitch of rivets *Yes* Working pressure of shell by rules *Yes* Diameter of flue *Yes* Material of flue plates *Yes* Thickness *Yes*
 Stiffened with rings *Yes* Distance between rings *Yes* Working pressure by rules *Yes* End plates: Thickness *Yes* How stayed *Yes*
 Working pressure of end plates *Yes* Area of safety valves to superheater *Yes* Are they fitted with easing gear *Yes*

Granville-0162



DONKEY BOILER— No. 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 boiler

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of test strength

Descrip. of riveting long. seams Dia. 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.

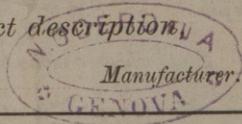
Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint

Thickness of furnace crown plates Stayed by Working pressure of shell by rules

Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description



P. J. Obermayer
#10012

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

Total No. of visits

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

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

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee..	£	:	:	When applied for,
Special	£	:	:18.....
Donkey Boiler Fee .. .	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:18.....

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

FRI. 10 AUG 1900

Committee's Minute

Assigned



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Foundation