

Muggiano 4015

No. 2702

REPORT ON MACHINERY.

Port of GenoaReceived at London Office MUN. 10 NOV 1902No. in Survey held at Spezia
Reg. Book.Date, first Survey Sept 1st Last Survey Nov 4 1902(Number of Visits 24)

on the

S. S. "Monviso"Tons { Gross 4205
Net 2737
When built 1902Master S. Premonini Built at Muggiano By whom built Cantieri navale di MuggianoEngines made at M. Hartlepool By whom made Richardsons Westgarth & Co when made 1902Boilers made at do By whom made do when made 1902Registered Horse Power 356 Owners L. Capuccio & Co Port belonging to GenoaNom. Horse Power as per Section 28 356 Is Refrigerating Machinery fitted no Is Electric Light fitted no

ENGINES, &c.—Description of Engines

No. of Cylinders — No. of Cranks —

Dia. of Cylinders — Length of Stroke — Revs. per minute — Dia. of Screw shaft as per rule — Lgth. of stern bush —

Dia. of Tunnel shaft as per rule — Dia. of Crank shaft journals as per rule — Dia. of Crank pin — Size of Crank webs — Dia. of thrust shaft under

Collars — Dia. of screw — Pitch of screw — No. of blades — State whether moveable — Total surface —

No. of Feed pumps — Diameter of ditto — Stroke — Can one be overhauled while the other is at work —

No. of Bilge pumps — Diameter of ditto — Stroke — Can one be overhauled while the other is at work —

No. of Donkey Engines — Sizes of Pumps — No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Four 3" In Holds, &c. Holds no- 1, 2, 3 & 4 each 2-3"suctions. after well one 3". Tunnel well one 3"To. of bilge injections — sizes — Connected to condenser, or to circulating pump yes Is a separate donkey suction fitted in Engine room & size yes 4"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 yesAre all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks BothAre 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 aboveAre 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 yesWhat pipes are carried through the bunkers None to the fore holds How are they protected By wooden casingsAre all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yesThen were stern tube, propeller, screw shaft, and all connections examined in dry dock before landing Is the screw shaft tunnel watertight yesIs it fitted with a watertight door yes worked from upper platformBOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 755 ft² Is forced draft fitted —No. and Description of Boilers one horizontal multitubular Working Pressure 100 Tested by hydraulic pressure to 200Date of test 1902 Can each boiler be worked separately — Area of fire grate in each boiler 269 ft² No. and Description of safety valves toeach boiler 2 Spring Area of each valve 443 in² Pressure to which they are adjusted 100 lbs Are they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 9-6" Length 9-0" Material of shell plates steelThickness 3/4" Range of tensile strength 27-32 Are they welded or flanged no Descrip. of riveting: cir. seams double outside S.A. & B. strapsDiameter of rivet holes in long. seams 29/32" Pitch of rivets 3" Lap of plates or width of butt straps 8 9/16"Per centages of strength of longitudinal joint rivets 86.3 Working pressure of shell by rules 112 Size of manhole in shell 15" x 11"Size of compensating ring 30 3/4" x 22 3/4" No. and Description of Furnaces in each boiler 2 Plain Material steel Outside diameter 32"Length of plain part top 12.5 in Thickness of plates crown 3/2" Description of longitudinal joint single lap No. of strengthening rings noneWorking pressure of furnace by the rules 97 Combustion chamber plates: Material steel Thickness: Sides 15/32" Back 15/32" Top 1/2" Bottom 15/32"Pitch of stays to ditto: Sides 6 1/16" x 6 1/2" Back 7 5/8" x 7 5/8" Top 6 7/8" x 7 5/8" If stays are fitted with nuts or riveted heads yes Working pressure by rules 150 lbsMaterial of stays steel Diameter at smallest part 1 3/4" x 3/4" Area supported by each stay 75 x 50" Working pressure by rules 118 End plates in steam space:Material steel Thickness 5 1/4" x 3 3/4" Pitch of stays 14 1/4" x 14 1/4" How are stays secured 220 bolts Working pressure by rules 104 Material of stays steelDiameter at smallest part 2 1/4" Area supported by each stay 200 in² Working pressure by rules 100.05 Material of Front plates at bottom steelThickness 5 1/4" Material of Lower back plate steel Thickness 3 3/4" Greatest pitch of stays 14 3/32" Working pressure of plate by rules 111Diameter of tubes 5" Pitch of tubes 4 3/8" Material of tube plates steel Thickness: Front 5 1/4" Back 4 5/8" Mean pitch of stays 8 0 3/32"Pitch across wide water spaces 14 1/4" Working pressures by rules 104.4 Girders to Chamber tops: Material steel Depth andthickness of girder at centre 6" x 1 3/32" Length as per rule 20 5/8" Distance apart 7 5/8" Number and pitch of Stays in each 2-6 1/16"Working pressure by rules 181 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked

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

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

If 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 —

Lloyd's Register
Foundation
W1119-0181

DONKEY BOILER— No. 37 Description Horizontal Multitubular
 Made at Ampicidarena By whom made D. Loriani & Co When made 1902 Where fixed on the main
 Working pressure 100 tested by hydraulic pressure to 200 No. of Certificate 37 Fire grate area 26.95 Description of safety valves Spring
 No. of safety valves 2 Area of each 4.43 Pressure to which they are adjusted 100 If fitted with easing gear yes If steam from main boiler no
 enter the donkey boiler no Dia. of donkey boiler 9.6 Length 9.0 Material of shell plates steel Thickness 4.1 Range of 28-32
 strength 27-32 Descrip. of riveting long. seams S.R. & B. Straps Dia. of rivet holes 29 Whether punched or drilled yes Pitch of rivets 0
 Lap of plating ✓ Per centage of strength of joint Rivets 86 Thickness of shell crown plates ✓ Radius of do. ✓ No. of Stays to do. ✓
 Dia. of stays ✓ Diameter of furnace Top 32 Length of furnace 22.5 Thickness of furnace plates 1/2 Descriptions gins
 joint single Thickness of furnace crown plates ✓ Stayed by ✓ Working pressure of shell by rules ✓
 Working pressure of furnace by rules 97 Diameter of uptake ✓ Thickness of uptake plates ✓ Thickness of water tubes ✓

SPARE GEAR. State the articles supplied:— 2 top & 2 bottom and bottom nuts, 2 main bearing & one set of
coupling bolts, one set of feed, ridge, air & circulating pump valves, one connecting
link, 2 safety valve springs, 10 condensers & 12 boiler tubes, one set of Ramsbottom
for H.P. & L.P. pistons, 1/2 set of fuel bars, set of H.P. piston valve springs, and propeller

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - Donkey boiler Sept 1st - Sept 18
 { During erection on board vessel - 1902. October 6 - Nov 4th on board
 Total No. of visits 4

Is the approved plan of main boiler forwarded herewith no

General Remarks

(State quality of workmanship, opinions as to class, &c. Note: The design of the "donkey" boiler is the same as that fitted on the last four vessels, & they are approved. The materials & workmanship being of the requirements of the rules having been carried out & completed, the engines of the ship are eligible in my opinion to be classed, with the notation of +LNC - 11-02 in the R. Book -

Material of screw shaft ✓ Is the screw shaft fitted with a continuous liner the whole length of the stern tube ✓
 Is the after end of the liner made water tight in the propeller boss ✓ If the liner is in more than one length are the joints burned ✓
 If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water non-corrosive ✓ If two liners are fitted, is the shaft lapped or protected between the liners ✓

This vessel's donkey boiler examined during construction & afterwards tested by hydraulic pressure & found tight & sound.

The engines & boilers examined whilst being fitted on board, the shafting examined after being set, the main steam pipes tested to 360 lb pressure, the spare gear checked over, pumping plan carried out, shaft tunnel made watertight, watertight door fitted, safety valves all adjusted under steam, & the engines examined during a steam trial & found satisfactory.

It is submitted that
 this vessel is eligible for
 THE RECORD - LMC 11-02

ED

11/11/02

17.11.02

Maurice Piton

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

The amount of Entry Fee. £ : : When applied for, Nov 6th 1902
 Special ✓ Donkey Boiler Fee £ : : When received, Nov 6th 1902
 Travelling Expenses (if any) £ 3 - 12 - 9 ✓

Committee's Minute

TUES. 18 NOV 1902

Assigned

+ LMC 11.02

MACHINERY CERTIFICATE



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Number of Certificate

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Number of Certificate

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