

Received at London Office

Date of writing Report Sept 25<sup>th</sup> 1920 When handed in at Local Office Sept 30<sup>th</sup> 1920 Port of Newcastle-on-Tyne  
 No. in Survey held at Newcastle-on-Tyne Date, First Survey 29<sup>th</sup> Mar 17 Last Survey 28<sup>th</sup> Sept 1920  
 Reg. Book. on the Screw Steamer "Mod" now "Giovanna Florio" (Number of Visits 9) Tons { Gross 5141  
 Master NE 3090 Built at Newcastle By whom built Northumberland S. B. Co Net 3223  
 Engines made at Newcastle By whom made North Eastern Marine Eng<sup>y</sup> Co Ltd when made 1920  
 Boilers made at do By whom made do when made 1920  
 Registered Horse Power 364 371 Owners J. A. Christensen & J. Florio Port belonging to Christiana  
 Nom. Horse Power as per Section 28 364 371 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

**ENGINES, &c.**—Description of Engines *Triple Expansion* No. of Cylinders *3* No. of Cranks *3*  
 Dia. of Cylinders *25-41-69* Length of Stroke *48* Revs. per minute *62* Dia. of Screw shaft *as per rule 14-21* Material of screw shaft *as fitted 14 1/2* *Steel*  
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube *Yes* Is the after end of the liner made water tight  
 in the propeller boss *Yes* 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 and non-corrosive *-* If two  
 liners are fitted, is the shaft lapped or protected between the liners *-* Length of stern bush *5'-0"*  
 Dia. of Tunnel shaft *as per rule 12 1/2* Dia. of Crank shaft journals *as per rule 13 1/8* Dia. of Crank pin *14* Size of Crank webs *22 x 8 1/2* Dia. of thrust shaft under  
 collars *14* Dia. of screw *17-3* Pitch of Screw *18-3* No. of Blades *4* State whether moveable *No* Total surface *92 1/2*  
 No. of Feed pumps *2* Diameter of ditto *14* Stroke *26* Can one be overhauled while the other is at work *Yes*  
 No. of Bilge pumps *2* Diameter of ditto *4 1/2* Stroke *26* Can one be overhauled while the other is at work *Yes*  
 No. of Donkey Engines *2* Sizes of Pumps *12-10 1/2-10 1/2 x 5 x 6* No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room *4-3 1/2* In Holds, &c. *2-3 1/2 in each hold, 1-2 1/2 in*

Tunnel well  
 No. of Bilge Injections / sizes 8 ✓ Connected to ~~condenser~~ or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2  
 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 None  
 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 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 ✓  
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes ✓ worked from Top platform

**BOILERS, &c.**—(Letter for record 6) Manufacturers of Steel John Spencer & Sons  
**Total Heating Surface of Boilers** 5901 Is Forced Draft fitted no No. and Description of Boilers 3 Single Ended  
**Working Pressure** 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 1-15-3-20 No. of Certificate 2-9576  
**Can each boiler be worked separately** yes **Area of fire grate in each boiler** 52 ft<sup>2</sup> No. and Description of Safety Valves to  
each boiler 2 Spring loaded **Area of each valve** 5.94" **Pressure to which they are adjusted** 185 lbs Are they fitted with easing gear yes  
**Smallest distance between boilers or uptakes and bunkers or woodwork** 24" **Mean dia. of boilers** 13-9 <sup>13</sup>/<sub>16</sub>" **Length** 10-9" **Material of shell plates** steel  
**Thickness** 1 <sup>1</sup>/<sub>2</sub>" **Range of tensile strength** 28 <sup>3</sup>/<sub>4</sub> - 32 Are the shell plates welded or flanged no **Descrip. of riveting: cir. seams** 2-1/4"  
**long. seams** 2-1/4" **Diameter of rivet holes in long. seams** 1 <sup>3</sup>/<sub>16</sub>" **Pitch of rivets** 8 <sup>3</sup>/<sub>4</sub>" **Lap of plates or width of butt straps** 17 <sup>1</sup>/<sub>2</sub>"  
**Per centages of strength of longitudinal joint** 86.4 **Working pressure of shell by rules** 182 **Size of manhole in shell** 16" x 12"  
**Size of compensating ring** Flanged **No. and Description of Furnaces in each boiler** 3 Deighton's **Material** steel **Outside diameter** 41 <sup>1</sup>/<sub>2</sub>"  
**Length of plain part** top - bottom - **Thickness of plates** top - bottom - **Description of longitudinal joint** welded **No. of strengthening rings** -  
**Working pressure of furnace by the rules** 182 **Combustion chamber plates: Material** steel **Thickness: Sides** 2 <sup>3</sup>/<sub>32</sub>" **Back** 2 <sup>3</sup>/<sub>32</sub>" **Top** 2 <sup>3</sup>/<sub>32</sub>" **Bottom** 2 <sup>3</sup>/<sub>32</sub>"  
**Pitch of stays to ditto: Sides** 10 <sup>1</sup>/<sub>2</sub> x 9 <sup>3</sup>/<sub>8</sub>" **Back** 10 <sup>1</sup>/<sub>2</sub> x 9 <sup>3</sup>/<sub>8</sub>" **Top** 10 <sup>1</sup>/<sub>2</sub> x 9 <sup>3</sup>/<sub>8</sub>" If stays are fitted with nuts or riveted heads nuts **Working pressure by rules** 182 lbs  
**Material of stays** steel **Area at smallest part** 2.03" **Area supported by each stay** 98.40" **Working pressure by rules** 185 **End plates in steam space:**  
**Material** steel **Thickness** 1 <sup>3</sup>/<sub>8</sub>" **Pitch of stays** 24 x 19 <sup>1</sup>/<sub>2</sub>" **How are stays secured** 8.2 x 8.2 x 1/2" **Working pressure by rules** 185 **Material of stays** steel  
**Area at smallest part** 8.29" **Area supported by each stay** 47.40" **Working pressure by rules** 181 **Material of Front plates at bottom** steel  
**Thickness** 1" **Material of Lower back plate** steel **Thickness** 3 <sup>3</sup>/<sub>32</sub>" **Greatest pitch of stays** 14 <sup>1</sup>/<sub>2</sub>" **Working pressure of plate by rules** 190  
**Diameter of tubes** 3 <sup>1</sup>/<sub>4</sub>" **Pitch of tubes** 4 <sup>1</sup>/<sub>2</sub> x 4 <sup>3</sup>/<sub>8</sub>" **Material of tube plates** steel **Thickness: Front** 1" **Back** 2 <sup>3</sup>/<sub>4</sub>" **Mean pitch of stays** 11 <sup>1</sup>/<sub>8</sub>"  
**Pitch across wide water spaces** 14 <sup>1</sup>/<sub>2</sub>" **Working pressures by rules** 182 lbs **Girders to Chamber tops: Material** steel **Depth and**  
**thickness of girder at centre** 9 x 1 <sup>1</sup>/<sub>2</sub>" **Length as per rule** 30" **Distance apart** 10 <sup>1</sup>/<sub>2</sub>" **Number and pitch of stays in each** 2-9 <sup>3</sup>/<sub>8</sub>"  
**Working pressure by rules** 185 lbs **Steam dome: description of joint to shell** none **% of strength of joint** -  
**Diameter** 8 **Thickness of shell plates** - **Material** - **Description of longitudinal joint** - **Diam. of rivet holes** -  
**Pitch of rivets** - **Working pressure of shell by rules** - **Crown plates** - **Thickness** - **How stayed** -  
**Tested by Hydraulic Pressure to** -  
**SUPERHEATER.** Type - Date of Approval of Plan - Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler -  
Date of Test -



## IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 Top end and 2 bottom end bolts & nuts. 2 main bearing bolts & nuts. A set of shaft coupling bolts & nuts. Iron plates of various thicknesses. Bolts & nuts of various sizes. A set of feed & bilge pump valves. A spare propeller.

The foregoing is a correct description,

THE NORTH EASTERN MARINE ENGINEERING Co., LTD.

J. J. Harrison

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1914, Mar. 29, May 3, June 19, Sept. 13, 1919, Mar. 14, 17, 25, 26, 31, May 15, 20, June 4, July 3, 10, 25, 26, 31, 1920, Jan. 9, 13, Feb. 2, 4, 5, 6, 9, 11, 17, 19, 20, 23, 24, 25, 26, 27, Mar. 2, 3, 10, 12, 15, 16, 19, 22, 23, 26, 29, 30, 31, Apr. 1, 22, 29, May 2, 21, 25, 31, June 3, 4, 8, 11, 12, 14, 29, July 5, 12, 22, 24, 29, Aug. 5, 9, 11, 12, 18, 20, 25, 30, 31, Sept. 8, 1920, Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders 29.7.20 Slides 12.8.20 Covers 29.7.20 Pistons 29.7.20 Rods 25.3.20 Connecting rods 25.3.20 Crank shaft 30.10.19 Thrust shaft 25.3.20 Tunnel shafts 23.3.20 Screw shaft 31.3.20 Propeller 22.7.20 Stern tube 25.3.20 Steam pipes tested 24.3.20 Engine and boiler seatings 29.1.20 Engines holding down bolts 8.9.20 Completion of pumping arrangements 21.9.20 Boilers fixed 21.9.20 Engines tried under steam 21.9.20 Completion of fitting sea connections 25.3.20 Stern tube 25.3.20 Screw shaft and propeller 31.3.20 Main boiler safety valves adjusted 21.9.20 Thickness of adjusting washers Star-S-4 P-9/16 Butte S-8 P-1/2 Port S-4 P-1/2 Material of Crank shaft steel Identification Mark on Do. L.P. 0.4 Material of Thrust shaft steel Identification Mark on Do. L.P. 4.4 Material of Tunnel shafts Iron Identification Marks on Do. L.P. 3.20 Material of Screw shafts Iron Identification Marks on Do. L.P. 3.1 Material of Steam Pipes 1 1/2" steel & 2 1/2" wrought iron Test pressure 540 lbs Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes Have the requirements of Section 49 of the Rules been complied with Yes Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) This vessel's machinery has been surveyed during construction, and the materials and workmanship are good and in accordance with the approved plans and the Society's rules. The boilers are fitted for burning oil fuel with a flash point above 150°F. but these fittings have been removed for the present, & coal will be used on the voyage.

She is therefore eligible in our opinion to have the notation of +L.M. 9.20 made in the R. Book.

P.S. This vessel originally named "Mod", has been sold to Italian owners & is now named "Giosanna Florio", port of Registry Palermo.

It is submitted that  
this vessel is eligible for  
THE RECORD. + L.M.C. 9.20.  
FITTED FOR OIL FUEL 9.20 F.P. ABOVE 150°F

Rell.

22/10/20

The amount of Entry Fee ... £ 3 : : When applied for,  
Special ... £ 38 : 7 : 19 OCT 1920  
Donkey Boiler Fee ... £ : : :  
Traveling Expenses (if any) £ : : : 2/11/20

Francis Pithon

Rell Ames.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

+ L.M.C. 9.20  
Fitted for oil fuel 9.20  
F.P. above 150°F



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