

REPORT ON MACHINERY.

No. 4180

Received at London Office TUE. MAR. 30. 1915

Writing Report 17/3 1915 When handed in at Local Office 17/3 1915 Port of
 Survey held at Date, First Survey 13/6/14 Last Survey 24/3 1915
 on the S.S. Rosalia L. (Yard No 47) (Number of Visits 7)
 Tons { Gross 7186
 Net 4571
 C. Aicardi Built at Monfalcone By whom built Cantiere Navale When built 1914-15
 when made 1914
 By whom made J. G. Kirkaid & Co. Ltd.
 when made 1914
 By whom made J. G. Kirkaid & Co. Ltd.
 Owners Comm. Michele Lauria Port belonging to Palermo
 Horse Power as per Section 28 520 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 of Cylinders 27"-44"-73" Length of Stroke 48" Revs. per minute 75 Dia. of Screw shaft as per rule Material of screw shaft as fitted
 Is the after end of the liner made water tight
 If the liner is in more than one length are the joints burned
 If the liner does not fit tightly at the part
 Is the space charged with a plastic material insoluble in water and non-corrosive
 If two
 Length of stern bush
 Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under
 Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule as fitted
 No. of Blades State whether moveable Total surface
 of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 In Holds, &c. 3 1/2"

of Bilge Injections 1 sizes 9" Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size yes 3 1/2"
 Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none
 Are they Valves or Cocks valves & cocks
 Are the Discharge Pipes above or below the deep water line above
 Are the Blow Off Cocks fitted with a spigot and brass covering plate yes
 How are they protected wooden casing
 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
 Dates of examination of completion of fitting of Sea Connections 13/6-14 of Stern Tube 27/6-14 Screw shaft and Propeller 7/10-14
 Is it fitted with a watertight door yes worked from main deck
 Manufacturers of Steel Howard & Lloyd & D. Colville & Son

BOILERS, &c.—(Letter for record) No. and Description of Boilers 3 Lyl. Mult. Single
 Total Heating Surface of Boilers 7714 Is Forced Draft fitted yes No. of Certificate
 Working Pressure 180 lbs. Tested by hydraulic pressure to Date of test
 Can each boiler be worked separately yes Area of fire grate in each boiler 59 sq. ft. No. and Description of Safety Valves to
 Area of each valve 9.62 sq. ft. 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 2 ft. Mean dia. of boilers Length Material of shell plates
 Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 Thickness Range of tensile strength Pitch of rivets Lap of plates or width of butt straps
 Diameter of rivet holes in long. seams Working pressure of shell by rules Size of manhole in shell
 Per centages of strength of longitudinal joint No. and Description of Furnaces in each boiler Material Outside diameter
 Size of compensating ring No. of strengthening rings
 Length of plain part top Thickness of plates bottom Description of longitudinal joint
 Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:
 Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules Material of stays
 Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom
 Diameter at smallest part Area supported by each stay Working pressure of plate by rules
 Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 Pitch across water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 Thickness of girder at centre Length of girder per rule Distance apart Number and pitch of stays in each
 Working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 Pitch of rivets Working pressure by rules End plates: Thickness How stayed
 Distance between rings Working pressure by rules Are they fitted with easing gear
 Working pressure of end plates Area of safety valves to superheater

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Lloyd's Register Foundation

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. _____ Description _____
 Made at _____ By whom made _____ When made _____ Where fixed _____
 Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of _____
 Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____
 If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____
 Material of shell plates _____ Thickness _____ Range of tensile 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 _____
 Working pressure of shell by rules _____ 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 _____
 Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Radius of do. _____ Stayed by _____
 Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— 1 set Lockwood & Laidie rings for H.P., I.P., & L.P. pistons & 1 for H.P. valve
 One screw shaft complete. 1 cast iron propeller. 1 bottom end & 2 top end brasses. 4 coupling bolts for top end
 6 coupling bolts for crank shaft. 2 connecting rod bottom end bolt & nut. 2 main bearing bolts & nuts
 1 set of coupling bolt for tunnel. 1 set of bilge & feed pump valve. 1 air pump rod. 6 cylinder studs. 12 pins
 The foregoing is a correct description, rings stud 2 mts. 3 7/8 condenser tubes & 120 ferrules. 1 escape
 we spring for each rise. 2 spring for boiler safety valve. 18 for
 Manufacturer. 13 plain tubes for boiler. 1 holder 2 mts assorted. 100 of ca

Dates of Survey while building
 During progress of work in shops 13 & 23 June, 7 & 21 Oct. 7 & 14 Nov. 1914. — 12 & 30 Jan. 1915
 During erection on board vessel —
 Total No. of visits Nine

Is the approved plan of main boiler forwarded herewith ☒ no

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____ Pistons _____ Rods _____
 Connecting rods _____ Crank shaft 7/11-14 Thrust shaft 7/10/14 Tunnel shafts 7/11-14 Screw shaft _____ Propeller _____
 Stern tube in place 7/10/14 Steam pipes tested 31/6-14 Engine and boiler seatings 25/6 Engines holding down bolts 7/11-14
 Completion of pumping arrangements 17/6-14 Boilers fixed 7/11/14 Engines tried under steam
 Main boiler safety valves adjusted 14/11-14 Thickness of adjusting washers Port Boiler {Port 9" Star 10" Center {Port 10" Star 11" Star 12" Star 13" Star 14" Star 15" Star 16" Star 17" Star 18" Star 19" Star 20" Star 21" Star 22" Star 23" Star 24" Star 25" Star 26" Star 27" Star 28" Star 29" Star 30" Star 31" Star 32" Star 33" Star 34" Star 35" Star 36" Star 37" Star 38" Star 39" Star 40" Star 41" Star 42" Star 43" Star 44" Star 45" Star 46" Star 47" Star 48" Star 49" Star 50" Star 51" Star 52" Star 53" Star 54" Star 55" Star 56" Star 57" Star 58" Star 59" Star 60" Star 61" Star 62" Star 63" Star 64" Star 65" Star 66" Star 67" Star 68" Star 69" Star 70" Star 71" Star 72" Star 73" Star 74" Star 75" Star 76" Star 77" Star 78" Star 79" Star 80" Star 81" Star 82" Star 83" Star 84" Star 85" Star 86" Star 87" Star 88" Star 89" Star 90" Star 91" Star 92" Star 93" Star 94" Star 95" Star 96" Star 97" Star 98" Star 99" Star 100" Star 101" Star 102" Star 103" Star 104" Star 105" Star 106" Star 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