

REPORT ON MACHINERY.

No. 4180

Received at London Office TUE. MAR. 30. 1915

Reporting Report 17/3 1915 When handed in at Local Office 17/3 1915 Port of 13/6/14 Last Survey 24/3 1915
 Survey held at on the S.S. Rosalia L. (Yard No 47) Date, First Survey 13/6/14 Last Survey 24/3 1915
 Book. C. Aicardi Built at Monfalcone By whom built Cantiere Navale (Number of Visits 9) Tons Gross 7186
Greenock By whom made J. G. Kirkaid & Co. Ld. when made 1914 Net 4571
Greenock By whom made J. G. Kirkaid & Co. Ld. when made 1914
 Registered Horse Power 520 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 as fitted 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
 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
 are fitted, is the shaft lapped or protected between the liners Length of stern bush
 Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin as fitted Size of Crank webs as fitted Dia. of thrust shaft under
 Dia. of screw as fitted Pitch of Screw as fitted No. of Blades as fitted State whether moveable as fitted Total surface as fitted
 of Feed pumps Diameter of ditto Stroke as fitted Can one be overhauled while the other is at work
 of Bilge pumps Diameter of ditto Stroke as fitted 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
 Engine Room 3 1/2" 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 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 valves & cocks
 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
 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 the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from main deck

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

2020-917M

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 Stays _____

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 _____ Plates _____

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 HP, IP, & LP pistons & 1 for HP 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 journal
 The foregoing is a correct description, rings stud 2 nuts. 37 condenser tubes & 120 ferrules. 1 escape
 we spring for each rise. 2 spring for boiler safety valve. 18 for
 Manufacturer. Hoppers. 13 plain tubes for boiler. Bolts & nuts assorted. Iron of ca

Dates of Survey while building: During progress of work in shops 13 & 23 June, 7 & 21 Oct. 7 & 14 Nov. 1914. 12 & 20 Jan. 1915
 During erection on board vessel - - -
 Total No. of visits *Nine*

Is the approved plan of main boiler forwarded herewith *no*
 " " " donkey " " " *✓*

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 23/6 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 Part Boiler {Part 9^{mm} Star 10^{mm} Center {Part 10^{mm} Star 11^{mm} Star 12^{mm} Star 13^{mm} Star

Material of Crank shaft _____ Identification Mark on Do. _____ Material of Thrust shaft _____ Identification Mark on Do. _____

Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts _____ Identification Marks on Do. _____

Material of Steam Pipes *Copper* Test pressure *360 lbs satisfactorily*

General Remarks (State quality of workmanship, opinions as to class, &c. *This machinery has been properly fitted & secured on board under survey and tested under steam and the case in my opinion is eligible for the notation of LMC 3-15*

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 .. 10/4 £ : _____ : _____

Donkey Boiler Fee £ : _____ When received, _____

Travelling Expenses (if any) *see 120* : *1/3* : _____

Committee's Minute *M* **Assigned** *see minute on Gen 6308*

A. J. Sparrow
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
 FRI. 8-OCT. 1915
 FRI. 11-FEB. 1916

