

Rpt. 4.

REPORT ON MACHINERY.

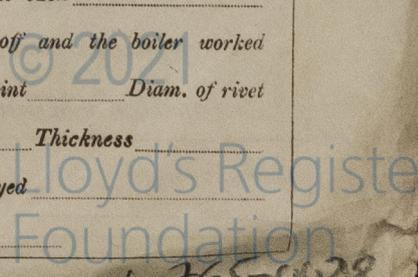
No. 23926

Received at London Office

Date of writing Report 19 When handed in at Local Office 10th July 1911 Port of Hull
 No. in Survey held at Hull Selby Date, First Survey Dec. 20th Last Survey 6th July 1911
 Reg. Book. 223 on the Hull S.S. Co. Weigelia (Number of Visits 33)
 Master Built at Selby By whom built Cochrane Sons Tons Gross 262 Net 103
 Engines made at } By whom made } Messrs when made 1911
 Boilers made at } Hull By whom made } Charles D. Holmes & Co when made 1911
 Registered Horse Power Owners Southern Steam Trawling Co. Port belonging to Milford
 Nom. Horse Power as per Section 28 46 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 12" - 21" - 34" Length of Stroke 24" Revs. per minute 111 Dia. of Screw shaft as per rule 7.044 Material of screw shaft as fitted 7.375
 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 Yes 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 36"
 Dia. of ^{plain part} ~~Journal~~ shaft as per rule 6.26 as fitted 6.875 Dia. of Crank shaft journals as per rule 6.57 as fitted 6.875 Dia. of Crank pin 6.875 Size of Crank webs 13" x 4 1/2" Dia. of thrust shaft under collars 6.875 Pitch of screw 11-3" Dia. of screw 10-3" Pitch of Screw 8'-7 1/2" No. of Blades 4 State whether moveable No Total surface 27.5 sq ft
 No. of Feed pumps 1 Diameter of ditto 2 3/8" Stroke 14 Can one be overhauled while the other is at work —
 No. of Bilge pumps 1 Diameter of ditto 2 3/8" Stroke 14 Can one be overhauled while the other is at work —
 No. of Donkey Engines One Sizes of Pumps 5" - 3 1/2" - 6" Duplex No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room Two 2", one 3", one 2 1/2" In Holds, &c. One 2" ejector suction
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes 2 1/2" by
 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 No
 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 hold suction How are they protected wood 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 13-5-11 of Stern Tube 13-5-11 Screw shaft and Propeller 13-5-11
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door — worked from —

BOILERS, &c.—(Letter for record) Manufacturers of Steel See separate report on boiler
 Total Heating Surface of Boilers 1384 sq ft Is Forced Draft fitted No No. and Description of Boilers 1 Cyl. Hull 8 Ended
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 30-5-11 No. of Certificate 8146
 Can each boiler be worked separately — Area of fire grate in each boiler 42 sq ft No. and Description of Safety Valves to each boiler Two spring Area of each valve 3.970 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 6 1/2" Mean dia. of boilers Length Material of shell plates
 Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 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
 Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Thickness Material of Lower back plate See 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 wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 thickness of girder at centre Length as 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
 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
 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



W 765-0029

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 Safety _____
 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 _____ Rivets _____ Plates _____
 Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____
 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:— *Two top and bottom end connecting rod bolts and nuts, two main bearing bolts and nuts, one set coupling bolts and nuts, one set each air feed bilge pump valves, one main and one donkey check valve, iron various sizes, and a quantity assorted bolts nuts, junk ring stubs.*

The foregoing is a correct description,
 p. pro **CHARLES D. HOLMES & Co. Ltd.** Manufacturer.

Charles Holmes
 DIRECTOR

Dates of Survey while building
 During progress of work in shops: 1910:— Dec 20, 1911:— Jan 11, 13, 25, May 2, 7, 13, 28, Apr 6, 10, 21, 26, May 3, 8, 9, 10, 13, 1
 During erection on board vessel: May 18, 20, 29, 31, Jun 7, 16, 17, 20, 21, 24, 26, 28, 30, July 4, 6.
 Total No. of visits: 33.
 Is the approved plan of main boiler forwarded herewith *Yes*

Dates of Examination of principal parts—Cylinders 10.4.11 Slides 31.5.11 Covers 7.6.11 Pistons 8.5.11 Rods 15.5.11
 Connecting rods 6.4.11 Crank shaft 26.4.11 Thrust shaft 13.3.11 Tunnel shafts _____ Screw shaft 10.5.11 Propeller 10.5.11
 Stern tube 9.5.11 Steam pipes tested 24.6.11 Engine and boiler seatings 29.5.11 Engines holding down bolts 4.7.11
 Completion of pumping arrangements 6.7.11 Boilers fixed 4.7.11 Engines tried under steam 6.7.11
 Main boiler safety valves adjusted 4.7.11 Thickness of adjusting washers 3/8" 3/8"
 Material of Crank shaft S Identification Mark on Do. 747.83.31929 Material of Thrust shaft S Identification Mark on Do. 747.83.
 Material of Tunnel shafts Identification Marks on Do. _____ Material of Screw shafts I Identification Marks on Do. 747.83.10.5.11
 Material of Steam Pipes Solid drawn copper Test pressure 400 lbs per sq inch

General Remarks (State quality of workmanship, opinions as to class, &c.) *The engines of this vessel have been constructed under special survey in accordance with the Rules. The materials and workmanship are good. The boilers (as per separate report) with the engines, secured on board and tested under steam. They are now in good order, and safe working condition and respectfully submitted as being eligible in my opinion to be classed with the notation of $\frac{1}{2}$ L.M.C. 7.11 in the Register Book*

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 7.11.

JWD
 13/7/11

The amount of Entry Fee .. £ 1 : : When applied for, _____
 Special .. £ 6 : 16 : 10.7.19.11
 Donkey Boiler Fee .. £ : : When received, _____
 Travelling Expenses (if any) £ : 8 : 2 : 1.9.11

Committee's Minute
 Assigned

FRI. JUL 14 1911

MACHINERY CERTIFICATE WRITTEN

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



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Certificate (if required) to be sent to _____