

# REPORT ON MACHINERY.

No. 7158

Received at London Office MON. 12 DEC. 1921

of writing Report 10<sup>th</sup> Dec. 1921. When handed in at Local Office 10<sup>th</sup> Dec. 1921. Port of Dublin.  
 in Survey held at Dublin. Date, First Survey 19. 9. 21. Last Survey 8. 12. 1921.  
 Book. Capt. (Number of Visits 8)  
 on the steel screw steamer "BOCAMAULE." Tons } Gross ✓  
 } Net ✓  
 Built at Dublin By whom built The Dublin Dockyard Co. Ltd. When built 1921-2.  
 Engines made at Glasgow By whom made D. Rowan & Co. when made 1921-2.  
 Makers made at Glasgow By whom made D. Rowan & Co. when made 1921-2.  
 Registered Horse Power ✓ Owners Cia. Carbonifera y de Induccion Schwager Port belonging to Valparaiso.  
 n. Horse Power as per Section 28 ✓ Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes.

**GINES, &c.—Description of Engines**

No. of Cylinders          No. of Cranks           
 Length of Stroke          Revs. per minute          Dia. of Screw shaft          Material of screw shaft           
 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  
 the propeller boss If the liner is in more than one length are the joints banded 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          Dia. of Crank shaft journals          Dia. of Crank pin          Size of Crank webs          Dia. of thrust shaft under  
 Dia. of screw          Pitch of Screw          No. of Blades          State whether moceable          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           
 Engine Room In Holds, &c.           
 of Bilge Injections sizes          Connected to condenser, or to circulating pump          Is a separate Donkey Suction fitted in Engine room & size           
 all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible          Are the sluices on Engine room bulkheads always accessible           
 all connections with the sea direct on the skin of the ship yes, or on top of Reservoir Are they Valves or Cocks both  
 they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line below  
 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.  
 at pipes are carried through the bunkers How are they protected           
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times           
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges           
 the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door Doors to be fitted, at Glasgow.

**PLERS, &c.—(Letter for record)** Manufacturers of Steel         

**al Heating Surface of Boilers** Is Forced Draft fitted          No. and Description of Boilers           
 Working Pressure          Tested by hydraulic pressure to          Date of test          No. of Certificate           
 each boiler be worked separately          Area of fire grate in each boiler          No. and Description of Safety Valves to           
 boiler          Area of each valve          Pressure to which they are adjusted          Are they fitted with easing gear           
 smallest distance between boilers or uptakes and bunkers or woodwork          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           
 seams          Diameter of rivet holes in long. seams          Pitch of rivets          Lap of plates or width of butt straps           
 percentages of strength of longitudinal joint          Working pressure of shell by rules          Size of manhole in shell           
 of compensating ring          No. and Description of Furnaces in each boiler          Material          Outside diameter           
 gth of plain part          Thickness of plates          Description of longitudinal joint          No. of strengthening rings           
 Working pressure of furnace by the rules          Combustion chamber plates: Material          Thickness: Sides          Back          Top          Bottom           
 ch of stays to ditto: Sides          Back          Top          If stays are fitted with nuts or riveted heads          Working pressure by rules           
 Material of stays          Area 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           
 a at smallest part          Area supported by each stay          Working pressure by rules          Material of Front plates at bottom           
 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           
 ch 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          Steam dome: description of joint to shell          % of strength of joint           
 diameter          Thickness of shell plates          Material          Description of longitudinal joint          Diam. of rivet holes           
 h of rivets          Working pressure of shell by rules          Crown plates          Thickness          How stayed         

**ERHEATER.** Type          Date of Approval of Plan          Tested by Hydraulic Pressure to           
 of Test          Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler           
 diameter of Safety Valve          Pressure to which each is adjusted          Is Easing Gear fitted         

RETAIN

RETAIN

© 2019 Lloyd's Register Foundation

W1109-0082

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - }  
 { During erection on board vessel - - - } 1921: Sep. 19. 29. Oct. 5. 10. 17. 27. 28. Dec. 8.  
 Total No. of visits for this survey 8.

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods  
 Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller  
 Stern tube Steam pipes tested Engine and boiler seatings 17.10.21 Engines holding down bolts  
 Completion of pumping arrangements Boilers fixed Engines tried under steam  
 Completion of fitting sea connections 17.10.21 Stern tube 28.10.21 Screw shaft and propeller  
 Main boiler safety valves adjusted Thickness of adjusting washers  
 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 Test pressure

Is an installation fitted for burning oil fuel

Is the flash point of the oil to be used over 150° F.

Have the requirements of Section 49 of the Rules been complied with

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.)

The sea cocks and valves and the stern tube satisfactorily fitted.  
 The vessel has been towed to Glasgow where the machinery is to be installed and the tunnel watertight door fitted, and the Glasgow Surveyors have been advised.

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 ... .. £	:	:	19
Donkey Boiler Fee ... £	:	:	When received.
Travelling Expenses (if any) £	:	:	10

A. G. Forster

Engineer Surveyor to Lloyd's Register of Shipping.

TUE. MAR. 7 1922

Committee's Minute

GLASGOW 28 FEB 1922

Assigned See Sb. Rm. 41737. *BN*



© 2019

Lloyd's Register Foundation