

## REPORT ON MACHINERY.

No. 4129.

Received at London Office

MON. 17 OCT. 1921

Date of writing Report 15<sup>th</sup> Oct 1921 When handed in at Local Office 15<sup>th</sup> Oct 1921 Port of Dublin  
 No. in Survey held at Dublin Date, First Survey 6<sup>th</sup> Sept 1921 Last Survey 14<sup>th</sup> Oct 1921  
 Reg. Book. on the STEEL SCREEN STEAMER "KYLEBEG"  
 Master ☒ Built at Dublin By whom built Dublin Shipbuilders Ltd. Tons { Gross 680  
 Engines made at Grathridge By whom made W. Beardmore & Co. Ltd. when made 1921  
 Boilers made at Glasgow By whom made D. Rowan & Co. when made 1921  
 Registered Horse Power ✓ Owners Sydney Holm Port belonging to Glasgow  
 Nom. Horse Power as per Section 28 ✓ Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

## ENGINES, &amp;c.—Description of Engines

No. of Cylinders		No. of Cranks	
Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of 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	
In the propeller boss		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	
Dia. of Tunnel shaft	Dia. of Crank shaft journals	Dia. of Crank pin	Size of Crank webs
Collars	Pitch of Screw	No. of Blades	State whether moveable
No. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work
No. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work
No. of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps	
In Engine Room		In Holds, &c.	

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size  
 Are 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  
 Are all connections with the sea direct on the skin of the ship No Are they Valves or Cocks both  
 Are 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 fitted  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate No  
 What pipes are carried through the bunkers How are they protected  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times  
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges  
 Is the Screw Shaft Tunnel watertight No, Machy Lft. Is it fitted with a watertight door ✓ worked from ✓

## BOILERS, &amp;c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers	Is Forced Draft fitted	No. and Description of Boilers
Working Pressure	Tested by hydraulic pressure to	Date of test
Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of Safety Valves to
each boiler	Area of each valve	Pressure to which they are adjusted
Smallest distance between boilers or uptakes and bunkers or woodwork	Mean dia. of boilers	Length
Thickness	Range of tensile strength	Material of shell plates
long. seams	Diameter of rivet holes in long. seams	Descrip. of riveting: cir. seams
Per centages of strength of longitudinal joint	Working pressure of shell by rules	Size of manhole in shell
Size of compensating ring	No. and Description of Furnaces in each boiler	Material
Length of plain part	Thickness of plates	Outside diameter
Working pressure of furnace by the rules	Combustion chamber plates: Material	No. of strengthening rings
Pitch of stays to ditto: Sides	Back	Top
Material of stays	Area at smallest part	Area supported by each stay
Material	Thickness	Pitch of stays
Area at smallest part	Area supported by each stay	Working pressure by rules
Thickness	Material of Lower back plate	Greatest pitch of stays
Diameter of tubes	Pitch of tubes	Material of tube plates
Pitch across wide water spaces	Working pressures by rules	Girders to Chamber tops: Material
thickness of girder at centre	Length as per rule	Distance apart
Working pressure by rules	Steam dome: description of joint to shell	% of strength of joint
Diameter	Thickness of shell plates	Material
Pitch of rivets	Working pressure of shell by rules	Crown plates
UPPER HEATER. Type	Date of Approval of Plan	Tested by Hydraulic Pressure to
Date of Test	Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler	Is Easing Gear fitted
Diameter of Safety Valve	Pressure to which each is adjusted	



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 - - - }  
Total No. of visits FOR THIS SURVEY 5.

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 9-9-21. Engines holding down bolts  
Completion of pumping arrangements Boilers fixed Engines tried under steam  
Completion of fitting sea connections 23-9-21. Stern tube 9-9-21 Screw shaft and propeller 23-9-21.  
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 No. 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 underwater sea connections, stern tube, tail shaft & propeller satisfactorily fitted  
The discharge valves remain to be fitted at Glasgow.  
The vessel has left for Glasgow, in tow, where the machinery is to be installed 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 ... £ : :  
Special ... £ : :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, 19  
When received, 19

A. B. Forster & W. J. Pyle.  
Engineer Surveyor to Lloyd's Register of Shipping.

FRI. DEC. 23 1921

Committee's Minute GLASGOW 20 DEC 1921

Assigned See Gl. Rpt. No. 41577



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