

## REPORT ON MACHINERY

No. 41577

Received at London Office

Date of writing Report 9.12.1921 When handed in at Local Office 9.12.1921 Port of Glasgow

No. in Survey held at Coatbridge Date, First Survey 27.4.21 Last Survey 6.12.1921  
Reg. Book. on the Machinery for S.S. "Kylebeg" (Number of Visits 24)

Master Built at Dublin By whom built Dublin Shipbuilders Ltd. Tons { Gross 680  
Net 295  
When built 1921

Engines made at Coatbridge By whom made Wm Beardmore & Co. Ltd. No. 562. when made 1921.  
Boilers made at Glasgow By whom made D. Rowan & Co. Ltd. 201. when made 1921

Registered Horse Power Owners Sydney Holm Port belonging to Glasgow

Tom. Horse Power as per Section 28 106. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 14" 24" 40" Length of Stroke 27" Revs. per minute 95 Dia. of Screw shaft as per rule 8.2" 7.82" Material of screw shaft M.S.  
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  
Is the propeller boss Yes 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 Yes If two  
liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 3'-0"

Dia. of Tunnel shaft as per rule 6.43" 7.2" Dia. of Crank shaft journals as per rule 6.91" 7.56" Dia. of Crank pin 4 3/4" Size of Crank webs 15" x 4 3/4" Dia. of thrust shaft under  
rollers 7 3/4" Dia. of screw 10.3" Pitch of Screw 11'-6" No. of Blades 4 State whether moveable No Total surface 39 sq ft

No. of Feed pumps 2 Diameter of ditto 3" Stroke 13 1/2" Can one be overhauled while the other is at work Yes  
No. of Bilge pumps 2 Diameter of ditto 3" Stroke 13 1/2" Can one be overhauled while the other is at work Yes  
No. of Donkey Engines 2 Sizes of Pumps 6" x 4" x 6" 6" x 4" x 8" No. and size of Suctions connected to both Bilge and Donkey pumps  
Engine Room 3 1-2 1/2" 3 R. of 1-2 1/2" Stokehold. P15 In Holds, &c. 2 1-3" Port 1 1-3" Starboard

No. of Bilge Injections 1 sizes 3 1/2" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size Yes 1-2 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 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  
That pipes are carried through the bunkers None How are they protected  
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  
Is the Screw Shaft Tunnel watertight No Is it fitted with a watertight door worked from

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

Total Heating Surface of Boilers 1854 sq ft Is Forced Draft fitted No No. and Description of Boilers One Single End  
Working Pressure 180 lbs. Tested by hydraulic pressure to 200 lbs. Date of test 26-11-20 No. of Certificate 15602  
Can each boiler be worked separately Area of fire grate in each boiler 50 sq ft No. and Description of Safety Valves to  
each boiler 1 Double Spring Area of each valve 5.9 sq in Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear Yes  
Smallest distance between boilers or uptakes and bunkers or woodwork 30" 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  
No. of rivets Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps  
Percentage of strength of longitudinal joint rivets plate 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  
bottom 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 Area at smallest part Not supported by each stay Working pressure by rules Material of stays  
Area 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  
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 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  
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. 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  
Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

2 Connecting Rod bolts for top end. ditto for bottom end. 2 Main bearing bolts. 1 Set of coupling bolts. 1 Set of Feed Bridge Pump valves. 1 Set of Piston Rings a quantity of assorted bolts & nuts. Iron of various sizes.

The foregoing is a correct description,

FOR WILLIAM BEARDMORE & CO. LIMITED

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1921 Apr 27 May 5 27 Jun 1 7 10 29 Jul 12 Aug 9 12 17 22 Sep 6 14 Oct 7 18 21 25 26.  
During erection on board vessel -- Nov 7 25 28 Dec 6  
Total No. of visits 24

Is the approved plan of main boiler forwarded herewith

" " " " donkey " " "

Dates of Examination of principal parts—Cylinders 7.6.21. Slides 9.8.21. Covers 29.6.21. Pistons 12.8.21. Rods 12.8.21.

Connecting rods 22.8.21. Crank shaft 7.6.21. Thrust shaft 7.6.21. Tunnel shafts None. Screw shaft 12.8.21. Propeller 12.8.21.

Stern tube 5.5.21. Steam pipes tested 26.10.21. Engine and boiler seatings see Dullui Rept. Engines holding down bolts 25.10.21.

Completion of pumping arrangements 4.11.21. Boilers fixed 31.10.21. Engines tried under steam 25.11.21.

Completion of fitting sea connections see Dullui Rept. 4129 Stern tube see Dullui Rept. 4129 Screw shaft and propeller see Dullui Rept.

Main boiler safety valves adjusted 4.11.21. Thickness of adjusting washers P 5/16 S 5/16.

Material of Crank shaft M.S. Identification Mark on Do. 5093 JRW Material of Thrust shaft M.S. Identification Mark on Do. 405 JRS.

Material of Tunnel shafts None Identification Marks on Do. Material of Screw shafts M.S. Identification Marks on Do. 405 JRS. 12.8.21.

Material of Steam Pipes Copper. SD Test pressure 360 lbs.

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 No If so, state name of vessel.

General Remarks (State quality of workmanship, opinions as to class, &c. The Engines have been constructed

under Special Survey in accordance with the Rules of the Society. The

materials & workmanship are good. The Engines have been dispatched to

Glasgow to be fitted on board the vessel.

Engines now securely fitted on board & tried under steam

& found satisfactory.

The machinery is eligible in our opinion for the record

of L.M.C. 12.21.

It is submitted that  
this vessel is eligible for  
THE RECORD. + LMC 12.21. CL.

John Barr. 22/12/21  
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 3 - -  
Special ... £ 26 - 10  
Donkey Boiler Fee ... £ - -  
Travelling Expenses (if any) £ - -  
When applied for, 15/12/1921.  
When received, 3.2.22.

Committee's Minute GLASGOW 20 DEC 1921

Assigned + LMC 12.21.

subject to classification of hull

As now  
Lloyd's Register  
Foundation