

REPORT ON MACHINERY

No. 41577

Received at London Office

Date of writing Report 9.12.21 When handed in at Local Office 9.12.21 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 L^{td} Tons { Gross 680 Net 295 When built 1921
 Engines made at Coatbridge By whom made Wm Beardmore & Co. L^{td} No. 562 when made 1921
 Boilers made at Glasgow By whom made D. Rowan & Co. L^{td} 201 when made 1921
 Registered Horse Power Owners Sydney Holm Port belonging to Glasgow
 Com. 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 24" Revs. per minute 95 Dia. of Screw shaft 8 1/2" 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 None Dia. of Crank shaft journals 6.91" 7.56" Dia. of Crank pin 4 3/4" Size of Crank webs 15x4 1/4" 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 moceable 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 6x4x6" 6x4x8" No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 3 1-2 1/2" S.R. of 1-2 1/2" Stakehold. PIS In Holds, &c. 2 1-3" Port 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 None
 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
 Are that pipes are carried through the bunkers None How are they protected Yes
 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 None Is it fitted with a watertight door Yes worked from Yes

BOILERS, &c.—(Letter for record None) Manufacturers of Steel None
 Total Heating Surface of Boilers 1854 sq ft Is Forced Draft fitted No No. and Description of Boilers one single ended
 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 Yes 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 Yes Length Yes Material of shell plates
 Thickness Yes Range of tensile strength Yes Are the shell plates welded or flanged Yes Descrip. of riveting: cir. seams
 Long. seams Yes Diameter of rivet holes in long. seams Yes Pitch of rivets Yes Lap of plates or width of butt straps
 Percentages of strength of longitudinal joint Yes Working pressure of shell by rules Yes Size of manhole in shell
 Size of compensating ring Yes No. and Description of Furnaces in each boiler Yes Material Yes Outside diameter
 Length of plain part Yes Thickness of plates Yes Description of longitudinal joint Yes No. of strengthening rings
 Working pressure of furnace by the rules Yes Combustion chamber plates: Material Yes Thickness: Sides Yes Back Yes Top Yes Bottom
 Pitch of stays to ditto: Sides Yes Back Yes Top Yes If stays are fitted with nuts or riveted heads Yes Working pressure by rules
 Material of stays Yes Area at smallest part Yes Supported by each stay Yes Working pressure by rules Yes End plates in steam space:
 Material Yes Thickness Yes Pitch of stays Yes How are stays secured Yes Working pressure by rules Yes Material of stays
 Area at smallest part Yes Area supported by each stay Yes Working pressure by rules Yes Material of Front plates at bottom
 Thickness Yes Material of Lower back plate Yes Thickness Yes Greatest pitch of stays Yes Working pressure of plate by rules
 Diameter of tubes Yes Pitch of tubes Yes Material of tube plates Yes Thickness: Front Yes Back Yes Mean pitch of stays
 Pitch across wide water spaces Yes Working pressures by rules Yes Girders to Chamber tops: Material Yes Depth and
 Thickness of girder at centre Yes Length as per rule Yes Distance apart Yes Number and pitch of stays in each
 Working pressure by rules Yes Steam dome: description of joint to shell Yes % of strength of joint
 Diameter Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes
 Pitch of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes

SUPERHEATER. Type None Date of Approval of Plan None Tested by Hydraulic Pressure to None
 Date of Test None Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler None
 Diameter of Safety Valve None Pressure to which each is adjusted None Is Easing Gear fitted None

Handwritten notes:
 G.S. further particulars added
 as per rule 200 lbs
 as per rule 180 lbs
 as per rule 180 lbs



IS A DONKEY BOILER FITTED?

970

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 -

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 7-11-21. 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 7-11-21. 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. 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.

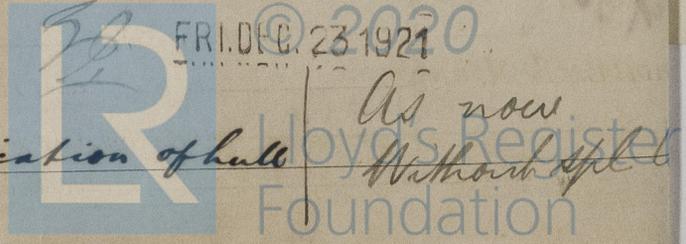
It is submitted that this vessel is eligible for THE RECORD. + LMC 12.21. CL.

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, 15/12/21. When received, 3.2.22.

Committee's Minute GLASGOW 20 DEC 1921. Assigned + LMC 12 21.

subject to classification of hull



Glasgow.

AC. 91221

The Surveyors are requested not to write on or below the space for Committee's Minute.