

REPORT ON MACHINERY.

Received at London Office

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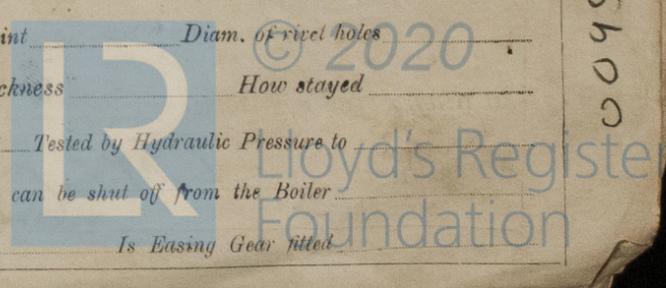
Date of writing Report 19 When handed in at Local Office 19.6.20 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 9.10.19. Last Survey 15 June 1920
 Reg. Book. on the S.S. "Jellicoe Rose" (Number of Visits 23)
 Master John Robinson Built at Paisley By whom built J. Lullerton & Co. (265) Tons Gross 1118 Net 609
 Engines made at Clydebank By whom made A. Wilson Blair & Co. (122) when made 1920
 Boilers made at Benfrew By whom made Lobnitz & Co. (4401B) when made 1919
 Registered Horse Power Owners Richard Hughes & Co. Port belonging to Liverpool
 Nom. Horse Power as per Section 28 ~~116.5~~ 117. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No.

ENGINES, &c.—Description of Engines *Triples* No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 16.26.42 Length of Stroke 29 Revs. per minute 110 Dia. of Screw shaft as per rule 8.378 8.65 Material of screw shaft as fitted 8.3/4
 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 No 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 No If two
 liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 3'-0"
 Dia. of Tunnel shaft as per rule 8.228.12 Dia. of Crank shaft journals as fitted 8.4 Dia. of Crank pin 8.4 Size of Crank webs 15.3 x 5.2 Dia. of thrust shaft under
 collars 8.4 Dia. of screw 10.6 Pitch of Screw 11.6 No. of Blades 4 State whether moveable No Total surface 35 sq ft
 No. of Feed pumps 2 Diameter of ditto 3 Stroke 13.2 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3 Stroke 13.2 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps *Feed 6 x 4.4 x 6. Len 200 4.4 x 8* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2 @ 2.4 Dia In Holds, &c. 2 @ 2 Dia

No. of Bilge Injections 1 sizes 4 Connected to condenser, or to circulating pump *Yes* Is a separate Donkey Suction fitted in Engine room & size 1-2.2
 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 *Yes*
 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 *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

OILERS, &c.—(Letter for record 8) Manufacturers of Steel *Steel Co. of Scotland* I.S.B.
 Total Heating Surface of Boilers 2030 sq ft Is Forced Draft fitted No. and Description of Boilers 1 S.E. *Multi-tubular*
 Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 9.6.19 No. of Certificate 14444
 Can each boiler be worked separately No Area of fire grate in each boiler 64.4 sq ft No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 7.068 sq in Pressure to which they are adjusted 185 Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 3.6 Mean dia. of boilers 15.0 Length 10.6 Material of shell plates 8
 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
 bottom Thickness of plates 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
 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
 Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Thickness Material of Lower back plates 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

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



0620-695600-555600

IS A DONKEY BOILER FITTED? *Yes*

If so, is a report now forwarded? *Yes*

SPARE GEAR. State the articles supplied:— 2 Top end, 2 bottom end bolts, 2 main bearing bolts, 1 set coupling bolts, 1 set of feed and bilge pump valves, 2 quantity assorted bolts & nuts, Iron of various sizes, 1 set air pump valves, 1 set circulating pump valves, 1 boiler tubes, 6 condenser tubes, 12 screws for firebars

The foregoing is a correct description,
MITCHISON, BLAIR LTD.

Arch Blair

Manufacturer.

Dates of Survey while building { During progress of work in shops --- 1918 Oct 9-21 1919 Jan 10 Feb 12 28 Apr 7 22 May 14 26 June 1 July 1-31 Sept 18 2010
During erection on board vessel --- 1920 Mar 22-30 Apr 6-13-20 May 20 June 2-15
Total No. of visits 23

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders 22.4.19 Slides 31.4.19 Covers 31.4.19 Pistons 31.4.19 Rods 31.4.19

Connecting rods 31.4.19 Crank shaft 12.2.19 Thrust shaft 1.4.19 Tunnel shafts None Screw shaft 18.9.19 Propeller 18.9.19

Stern tube 22.3.20 Steam pipes tested 26.5.20 Engine and boiler seatings 6.4.20 Engines holding down bolts 2.6.20

Completion of pumping arrangements 15.6.20 Boilers fixed 2.6.20 Engines tried under steam 15.6.20

Completion of fitting sea connections 20.4.20 Stern tube 30.3.20 Screw shaft and propeller 20.4.20

Main boiler safety valves adjusted 11.6.20 Thickness of adjusting washers Port 3/32 Starboard 1/32

Material of Crank shaft S Identification Mark on Do. LLOYDS 12.2.19 Material of Thrust shaft S Identification Mark on Do. 12.2.19

Material of Tunnel shafts None Identification Marks on Do. ✓ Material of Screw shafts S Identification Marks on Do. ✓

Material of Steam Pipes Copper Test pressure 360 lbs.

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 *Yes* If so, state name of vessel *S.S. "Ardglass"*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Engines and Boiler of this Vessel have been built under Special Survey, workmanship and materials are good, they have been well fitted on board, and under steam and found to work satisfactorily.

The Machinery of this Vessel is eligible in my opinion for the Record of +L.M.C. 6.20 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD +L.M.C. 6.20.

HXS 25/6/20

J.M. J.W.

The amount of Entry Fee ... £ 2 : - : When applied for, Special ... £ 14 : 11 : 22-6-19-20 Donkey Boiler Fee ... £ 4 : - : 4-0-0 Chargeable C.S.M.S. Travelling Expenses (if any) £

H.S. Gurney
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 22 JUN 1920 MACHINERY CERT. WRITTEN 23.6.20 Assigned +L.M.C. 6.20



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GLASGOW Certificate (if required) to be sent to

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