

Rpt. 4.

REPORT ON MACHINERY.

No. 43402

Date of writing Report 19 When handed in at Local Office 29. 5. 1924 Port of Glasgow
 No. in Survey held at Coatbridge. Date, First Survey 22 Sept 1920 Last Survey 15 Feb 1924
 Reg. Book. 9224 on the S.S. "GLYNCONWY" (Number of Visits 26)
 Master Built at Goole By whom built Goole S.B.C. No 253. Tons Gross Net
 Engines made at Coatbridge. By whom made Messrs W. Beardmore & Co. Ltd No 568 when made 1924.
 Boilers made at Glasgow. By whom made A & W. Dalglish. when made 1924
 Registered Horse Power Owners Clwyd S.S. Co. Ltd. Port belonging to Liverpool
 Nom. Horse Power as per Section 28 84. Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 13 - 21 - 35 Length of Stroke 24 Revs. per minute Dia. of Screw shaft as per rule 4.32 Material of screw shaft as fitted 8.0 Steel
 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 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 3'-0"
 Dia. of Tunnel shaft as per rule 6.49 Dia. of Crank shaft journals as per rule 6.81 Dia. of Crank pin 4 Size of Crank webs 13 1/4 Dia. of thrust shaft under collars 4 Dia. of screw 9'-0" Pitch of Screw 11'-6" No. of Blades 4 State whether moveable No Total surface 34
 No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work yes
 No. of Donkey Engines two Sizes of Pumps 6x6x6 & 6x4x6 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room Three, 2" dia. Engine Room aft, Stokehold P & S. In Holds, &c. Two 2 1/2" 1 port & 1 starboard

No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size yes 2 1/2"
 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 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 Forward suction How are they protected wood casing
 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 Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel 15B.
 Total Heating Surface of Boilers 1566 Is Forced Draft fitted no No. and Description of Boilers One S.E. Marine type
 Working Pressure 180 Tested by hydraulic pressure to Date of test No. of Certificate
 Can each boiler be worked separately Area of fire grate in each boiler 51 ft No. and Description of Safety Valves to each boiler 1 double spring loaded Area of each valve 5934 Pressure to which they are adjusted 183 lbs. Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 22" 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
 Long. 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 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
 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 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:— Two top end bolts & nuts, 2 bottom end bolts & nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of air, feed, tilge & circulating pump valves, a quantity of assorted bolts & nuts & iron of various sizes.

The foregoing is a correct description,

WILLIAM BEAUMONT & CO., LIMITED.

Thomson

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1920 Sep 22 Oct 16 Nov 3 15 30 Dec 14 22 1921 Jan 11 18 20 28 Feb 1 9 17 Mar 4 10
During erection on board vessel - - Jun 10 Dec 21 1922 Dec 18 1923 Apr 16 21 May 16 Aug 17 1924 Dec 6 12 15.
Total No. of visits 26 + 10 = 36.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 14/12/20 Slides 28/1/24 Covers 14/12/20 Pistons 18/1/24 Rods 7/2/24
Connecting rods 28/1/24 Crank shaft 29/12/20 Thrust shaft 12/2/24 Tunnel shafts ✓ Screw shaft 12/2/24 Propeller 12/2/24
Stern tube 12/2/24 Steam pipes tested 20-3-24 Engine and boiler seatings 7-3-24 Engines holding down bolts 24-3-24
Completion of pumping arrangements 1-4-24 Boilers fixed 18-3-24 Engines tried under steam 31-3-24
Completion of fitting sea connections 22-2-24 Stern tube 22-2-24 Screw shaft and propeller 22-2-24
Main boiler safety valves adjusted 31-3-24 Thickness of adjusting washers P. 7/16 S. 7/16
Material of Crank shaft S. Identification Mark on Do. 5689 J.B. Material of Thrust shaft S. Identification Mark on Do. 5690 J.B.
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts S Identification Marks on Do. 9912 J.D.
Material of Steam Pipes S.D. Copper ✓ 7 S.W.G Test pressure 400 lb per sq in
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 machinery has been built under special survey in accordance with the Rules of this Society. It has now been shipped to Boole for fitting on board the vessel Hull by Surveyors notified.

Survey authorised

per Ltr. 9/1/20

The machinery has been properly fitted & secured on board the S.S. "Glyneonny". The steam & feed pipes have been tested as required by the Rules. On completion the machinery was tried under working conditions & found satisfactory. The machinery is now in a good and efficient condition, and eligible in my opinion to have the record - LMC 4.24 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 4.24 CL.

P. Fitzgerald

The amount of Entry Fee ... £ 2 : 0 : 0
Special ... 2/5 ... £ 8 : 8 : 0
Installing mch. ... £ 4 : 4 : 0
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : 15 : 0

When applied for,

11-4/24 (Hull)

When received,

28/3/24

28/3/24

28/3/24

28/3/24

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J.D. C.M.S.
14/4/24

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

4 MAR 1924

Assigned

Transmit to London

TUE. 15 APR. 1924

+ Ltr. 6.4.24

C.L.

CERTIFICATE WRITTEN

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