

Rpt. 4.

REPORT ON MACHINERY.

No. ~~43402~~

Date of writing Report 19 When handed in at Local Office 29. 5. 1924 Port of Glasgow Office W.F.D. & EMAR. 1924

No. in Survey held at Coatbridge Date, First Survey 22nd Sept 1920 Last Survey 15th Feb 1924

Reg. Book. 922 on the S.S. "GLYNCONWY" (Number of Visits 26)

Master Built at Goole By whom built Goole S.B. Co. N^o 253. Tons } Gross
 } Net

Engines made at Coatbridge By whom made Mess^{rs} W^m Beardmore & Co. Ltd N^o 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 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 6.42 Dia. of Crank shaft journals as per rule 6.31 Dia. of Crank pin Size of Crank webs 13 3/4 Dia. of thrust shaft under collars as fitted None as fitted 4.0 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 Horizontal Duplex 6x6x6 & 4x4x6 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Three, 2" dia. Engine Room agit, Stokehold P & S. In Holds, &c. Two 2 1/2" 1 port & 1 starb.

No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating 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

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 No. and Description of Safety Valves to each boiler 1 double spring loaded Area of each valve 5930 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

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 Outside diameter

Length of plain part Thickness of plates 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

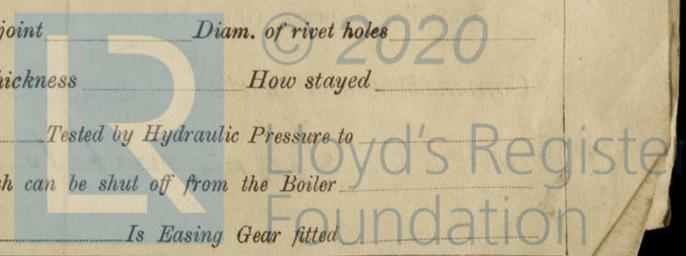
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

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 BEAUFORT & 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 Jun 10 Dec 21 1922 Dec 18 1923 April 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 London letter 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 ... £ 8 : 8 : 0 Installing mch. ... £ 4 : 4 : 0 Donkey Boiler Fee ... £ : : 0 Travelling Expenses (if any) £ : 15 : 0

When applied for, 14/3/24

When received, 11-4-24 (Hull)

Signature of P. Fitzgerald, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 4 MAR 1924

Assigned Transmit to London

TUE. 15 APR. 1924

+ L.M.C. 4.24

C.L.

CERTIFICATE WRITTEN

Vertical stamp: Glasgow, Certificate (if required) to be sent to the Surveyors are requested not to write on or below the space for Committee's Minute.

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