

REPORT ON MACHINERY.

No. 41196

Received at London Office

JUN 29 1921

Date of writing Report 24. 6. 1921 When handed in at Local Office 24. 6. 1921 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 23rd Sept 1919 Last Survey 21st June 1921
 Reg. Book. on the Auxiliary how propelling engine S.S. Garryowen II (Number of Visits 75) Tons } Gross 468
 Net 194
 Master Built at Port Glasgow By whom built Geo Brown & Co 19134 When built 1921
 Engines made at Glasgow By whom made Mekie & Baxter 9585 when made
 Boilers made at Glasgow By whom made Alex Stephen & Sons when made
 Registered Horse Power Owners J Bannatyne & Sons Ltd Port belonging to Limerick
 Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 10 1/2 - 17 - 28 Length of Stroke 20 Revs. per minute Dia. of Screw shaft as per rule Material of screw shaft as fitted steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight in the propeller boss
 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
 Dia. of Tunnel shaft as per rule steel Dia. of Crank shaft journals as per rule 5 5/8 Dia. of Crank pin 5 7/8 Size of Crank webs 10 1/4 x 3 3/4 Dia. of thrust shaft under collars
 Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
 No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 No. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room In Holds, &c.
 No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
 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 Are they Valves or Cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a snigot and brass covering plate
 What pipes are carried through the bunkers How are they protected
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
 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 Is Forced Draft fitted No. and Description of Boilers
 Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate
 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to each boiler
 Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 Smallest distance between boilers or uptakes and bunkers or woodwork 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 rivets Working pressure of shell by rules Size of manhole in shell
 plate
 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 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 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
 Tested by Hydraulic Pressure to

SUPERHEATER. Type Date of Approval of Plan
 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? No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

[A large diagonal scribble or signature across the spare gear section.]

The foregoing is a correct description,

Mc Kie & Bonister of

Manufacturer.

Dates of Survey while building { During progress of work in shops --- }
{ During erection on board vessel --- }
Total No. of visits

See attached report.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders ^{HP & LP MP} 2/8/20 5/7/20 Slides 5/8/20 Covers 5/8/20 Pistons 5/8/20 Rods 5/8/20

Connecting rods 5/8/20 Crank shaft 28/6/20 Thrust shaft Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam 17/5/21

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft S. Identification Mark on Do. 956 Lloyd Material of Thrust shaft Identification Mark on Do.

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.

Material of Steam Pipes Test pressure

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 If so, state name of vessel

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

*This machinery has been built under special survey.
The workmanship and materials are sound & good.*

The amount of Entry Fee ... £	:	:	When applied for,
Special ...	£	<i>Charged on</i>	19
Donkey Boiler Fee ... £	:	<i>main register</i>	When received,
Travelling Expenses (if any) £	:	:	19

Peter M. Chegoz

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

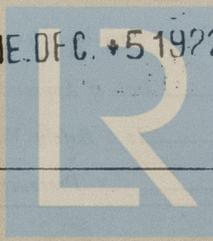
28 JUN 1921

TUE. DEC. 5 1922

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Assigned See accompanying report.



Certificate (if required) to be sent to

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