

# REPORT ON MACHINERY.

No. 30587 MON. SEP. 18. 1911

Received at London Office

of writing Report 19 When handed in at Local Office 16-9-10 H. Port of Glasgow  
 in Survey held at Glasgow Date, First Survey 14. 3. 11. Last Survey 4. 8. 19 11.  
 g. Book. on the SS "Bargany" (Number of Visits 17)  
 Tons Gross 872 Net 794  
 Built at Port Glasgow By whom built The Gruncell & Spangemuth Dockyard & Co. Ltd. When built 1911  
 Engines made at Coatbridge By whom made W. & B. Ledgerwood (358) when made 1911  
 Silers made at Glasgow By whom made Dumbell & Jackson Ltd. when made 1911  
 Registered Horse Power Owners Peter & Nendry Port belonging to Glasgow  
 m. Horse Power as per Section 28 138 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
 a. of Cylinders 17" 27" 44" Length of Stroke 30" Revs. per minute Dia. of Screw shaft as per rule 7.84 as fitted 9.4 Material of screw shaft iron  
 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  
 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 yes If two  
 ers are fitted, is the shaft lapped or protected between the liners Length of stern bush 42"  
 a. of Tunnel shaft as per rule 7.9 as fitted none Dia. of Crank shaft journals as per rule 8.35 as fitted 8.34 Dia. of Crank pin 8.34 Size of Crank webs 32" x 5.34 Dia. of thrust shaft under  
 lars 8.34 Dia. of screw 10' 9" Pitch of Screw 11' 0" No. of Blades 4 State whether moveable No Total surface 444"  
 of Feed pumps 2 Diameter of ditto 3" Stroke 10" Can one be overhauled while the other is at work yes  
 of Bilge pumps 2 Diameter of ditto 2.5" Stroke 15" Can one be overhauled while the other is at work yes  
 of Donkey Engines 1 Sizes of Pumps 7 x 7 x 8 No. and size of Suctions connected to both Bilge and Donkey pumps  
 Engine Room (3) 24" In Holds, &c. (2) 12"  
 of Bilge Injections 1 sizes 3.5" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 9.6 24"  
 e 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  
 e all connections with the sea direct on the skin of the ship Are they Valves or Cocks both  
 e 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  
 e 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  
 hat pipes are carried through the bunkers none How are they protected  
 e all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes  
 e the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes  
 tes of examination of completion of fitting of Sea Connections See General Report Stern Tube Screw shaft and Propeller  
 the Screw Shaft Tunnel watertight none Is it fitted with a watertight door worked from

ILLERS, &c.—(Letter for record) Manufacturers of Steel  
 al Heating Surface of Boilers 2572 Is Forced Draft fitted No No. and Description of Boilers  
 orking Pressure Tested by hydraulic pressure to Date of test No. of Certificate  
 e each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to  
 h boiler pair direct spring Area of each valve 9.62" Pressure to which they are adjusted 160 lbs Are they fitted with easing gear yes  
 allest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates  
 ickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams  
 g. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps  
 e centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell  
 e of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter  
 ngth of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings  
 bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom  
 ch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules  
 terial of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:  
 terial Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays  
 eter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom  
 ckness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules  
 eter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays  
 ch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and  
 kness of girder at centre Length as per rule Distance apart Number and pitch of stays in each  
 rking pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked  
 rately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet  
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 ffitened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed  
 rking pressure of end plates Area of safety valves to superheater Are they fitted with easing gear



*Manufacturers of Steel*

SPARE GEAR. State the articles supplied:— 2 Top end bolts + nuts, 2 Bottom end bolts + nuts, 1 Set of Coupling bolts, 2 main bearing bolts, feed and Sledge pump valves, iron, bolts + nuts assorted

For W. V. V. Lidgerwood Manufacturer. R Sneddon

Is the approved plan of main boiler forwarded herewith

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

<sup>2</sup>For endorsement see Birth Report No. 13442.

A. M. Keane & H. B. Forster  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

TUE. SEP 26. 1911

+ Lm 6.9.11

MACHINERY CERTIFICATE  
WRITTEN.



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