

REPORT ON MACHINERY.

No. 44306
21 JAN 1925

Received at London Office

Date of writing Report 14 Jan '25 When handed in at Local Office 16/1/25 Port of Glasgow

No. in Survey held at Glydebank Date, First Survey 8.7.24 Last Survey 13 Jan '25
Reg. Book. (Number of Visits) 16

Master _____ Built at Bowling By whom built Scott & Sons 7 N° 297 When built 1925
Tons { Gross 398
Net 163

Engines made at Glydebank By whom made Aitchison & Blair N° 150 when made 1925

Boilers made at Glasgow By whom made D. Rowan & Co 2 N° B. 331 when made 1925

Registered Horse Power _____ Owners The Downshire S. S. Co Port belonging to Belfast

Nom. Horse Power as per Section 28 80 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"-34" Length of Stroke 24" Revs. per minute 125 Dia. of Screw shaft as per rule 7.157" Material of screw shaft 8
as fitted 7.14"

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 yes
If two liners are fitted, is the shaft lapped or protected between the liners no Length of stern bush 30 1/2" (no 0.9)

Dia. of Tunnel shaft as per rule 6.407" Dia. of Crank shaft journals as per rule 6.727" Dia. of Crank pin 6 3/8" Size of Crank webs 13 1/2" x 4 1/2" Dia. of thrust shaft under collars 6 3/8" Dia. of screw 9'-0" Pitch of Screw 9'-4 1/2" No. of Blades 4 State whether moceable no Total surface 28.25 sq

No. of Feed pumps 2 Diameter of ditto 1 3/8" Stroke 14" Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 Diameter of ditto 2" Stroke 14" Can one be overhauled while the other is at work yes
No. of Donkey Engines 2 Sizes of Pumps 5x3 1/2 x 6, 6x6x6 duplex No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 1-2 1/2, stokehold 2-2" In Holds, &c. 3-2 1/2"

No. of Bilge Injections 1 sizes 3 1/2" Connected to main bilge to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 1-2 1/2"
Are all the bilge suction pipes fitted with no yes Are the no in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible no

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 N° 1 hold bilge pipes 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 no Is it fitted with a watertight door no worked from no

BOILERS, &c.—(Letter for record no) Manufacturers of Steel see Gls Report N° 44194
Total Heating Surface of Boilers 1502 sq Is Forced Draft fitted no No. and Description of Boilers see Gls Report N° 44194
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 _____ No. and Description of Safety Valves to each boiler 2 Spring loaded Area of each valve 4.9 sq Pressure to which they are adjusted 185 Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork will clear 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 _____

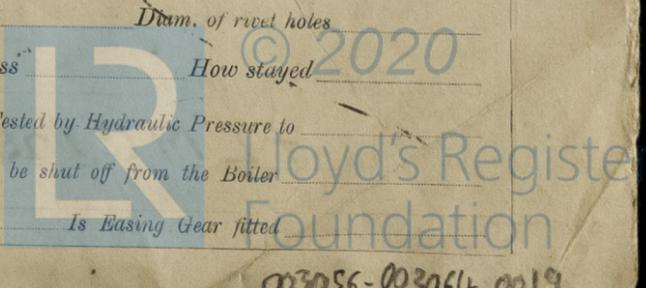
Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____

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 _____



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