

## REPORT ON MACHINERY

No. 17236

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Date of writing report 1/12/15 When written at at least office 1 Jan 1916 Port of Greenock  
No. in Survey held at Greenock Date, First Survey 30th Nov, 1915, Last Survey 2 Jan 1916  
Reg. Book. 114 Number of Visits 114  
Built on the Steel Steamer Sheridan Tons 114 Gross  
Master James McMillan Built at Dumfries By whom built A. McMillan & Co. When built 1918  
Engines made at Greenock By whom made Rankine & Macdonald Ltd when made 1918  
Boilers made at Greenock By whom made Rankine & Macdonald Ltd when made 1918  
Registered Horse Power 407 Owners James & Co. Ltd (Lancaster, 1911) Port belonging to Liverpool  
Nom. Horse Power as per Section 28 407 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Compound No. of Cylinders Three No. of Cranks Three  
Dia. of Cylinders 26-43-70 Length of Stroke 48 Revs. per minute 70 Dia. of Screw shaft as per rule 14.55 Material of 5 lbm  
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 No If two  
liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 62 1/2  
Dia. of Tunnel shaft as per rule 13.03 Dia. of Crank shaft journals as per rule 13.68 Dia. of Crank pin 1 1/4 Size of Crank web 9 1/2 x 8 1/2 Dia. of thrust shaft as fitted 15 1/2  
collars 13 1/4 Dia. of screw 17.9 Pitch of Screw 17.36-18.8 No. of Blades 4 State whether moveable Yes Total surface 102 1/2  
No. of Feed pumps Two Diameter of ditto 7 Stroke 21 Can one be overhauled while the other is at work Yes  
No. of Bilge pumps Two Diameter of ditto 4 Stroke 27 Can one be overhauled while the other is at work Yes  
No. of Donkey Engines Three Sizes of Pumps 8-8-10-10-5 1/2-8 No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room Three 3 1/2 in In Holds, &c. Two 3 1/2 in Two 1 in

Circulating pump separate engine  
No. of Bilge Injections Two Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room of size 2 1/2  
Are 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 Yes  
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 Below  
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 No How are they protected No  
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 Yes Is it fitted with a watertight door Yes worked from 2nd Platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Steel Co. of Scotland Glasgow, &c.  
Total Heating Surface of Boilers 6800 Is Forced Draft fitted No No. and Description of Boilers Three single ended  
Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 4/9/17 No. of Certificate 1303  
Can each boiler be worked separately Yes Area of fire grate in each boiler 59 1/2 sq ft No. and Description of Safety Valves to  
each boiler Two spring Area of each valve 7.67 sq in Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes  
Smallest distance between boilers or uptakes and bunkers or woodwork 16 Mean dia. of boilers 15.6 Length 11.6 Material of shell plates Steel  
Thickness 1 1/16 Range of tensile strength 20 1/2-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams No  
long. seams all welded Diameter of rivet holes in long. seams 19/32 Pitch of rivets 9 1/16 Lap of plates or width of butt straps 18 1/2  
Per centages of strength of longitudinal joint as per rule 13.1 Working pressure of shell by rules 183 lb Size of manhole in shell 16-12  
Size of compensating ring 30 1/2-26 1/2-14 1/2 No. and Description of Furnaces in each boiler 3 Brighton Material Steel Outside diameter 47 1/4  
Length of plain part top 10 1/2 bottom 10 1/2 Thickness of plates top 9 1/16 bottom 9 1/16 Description of longitudinal joint welded No. of strengthening rings none  
Working pressure of furnace by the rules 187 lb Combustion chamber plates: Material Steel Thickness: Sides 4 1/16 Back 4 1/16 Top 4 1/16 Bottom 12 1/16  
Pitch of stays to ditto: Sides 9 1/8-8 1/2 Back 9 1/8-8 1/2 Top 9 1/8-8 1/2 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 182 lb  
Material of stays Steel Area at smallest part 1.77 Area supported by each stay 77.5 Working pressure by rules 183 lb End plates in steam space:  
Material Steel Thickness 1 9/16 Pitch of stays 22-18 7/8 How are stays secured all welded Working pressure by rules 184 lb Material of stays Steel  
Area at smallest part 7.5 Area supported by each stay 4.15 Working pressure by rules 183 lb Material of Front plates at bottom Steel  
Thickness 1 9/16 Material of Lower back plate Steel Thickness 1 3/16 Greatest pitch of stays 13 1/2 Working pressure of plate by rules 186 lb  
Diameter of tubes 3 1/2 Pitch of tubes 4 1/2 Material of tube plates Steel Thickness: Front 1 9/16 Back 12 1/16 Mean pitch of stays 9  
Pitch across wide water spaces 14 Working pressures by rules 206 lb Girders to Chamber tops: Material Steel Depth and  
thickness of girder at centre 9 1/2-1 1/2 Length as per rule 34 9/16 Distance apart 9 1/2 Number and pitch of stays in each Three 8 1/4  
Working pressure by rules 181 lb Steam dome: description of joint to shell No % of strength of joint No

Diameter 1 1/16 Thickness of shell plates 1 9/16 Material Steel Description of longitudinal joint welded Diam. of rivet holes 19/32  
Pitch of rivets 9 1/16 Working pressure of shell by rules 183 lb Crown plates No Thickness No How stayed No  
SUPERHEATER. Type No Date of Approval of Plan No Tested by Hydraulic Pressure to No  
Date of Test No Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler No  
Diameter of Safety Valve No Pressure to which each is adjusted No Is Easing Gear fitted No



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