

Port of *Greenock*Received at London Office **WED. 9 MAY 1906**No. in Survey held at *Greenock.*Date, first Survey *20th June 1904*: Last Survey *30th April 1906*

Reg. Book.

122 *Suppl.* on the *Steel S.S. "Auchendale" (Russell & Co. No. 556)*Master *R. M. McClure* Built at *Port Glasgow* By whom built *Russell & Co.*Engines made at *Greenock* By whom made *J. G. Kincaid & Co.* when made *1906*Boilers made at *Glasgow* By whom made *Lindsay Burnet & Co.* when made *1906*Registered Horse Power *355* Owners *Purdie, Glen & Miller* Port belonging to *Glasgow*Nom. Horse Power as per Section 28 *355* 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 *25"-41"-68"* Length of Stroke *48"* Revs. per minute *90* Dia. of Screw shaft *as per rule 14.30* Material of *Wrot. Iron*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 tightin 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 partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *Yes* If twoliners are fitted, is the shaft lapped or protected between the liners *✓* Length of stern bush *58 1/2"*Dia. of Tunnel shaft *as per rule 12.695* Dia. of Crank shaft journals *as per rule 13.330* Dia. of Crank pin *13 3/8"* Size of Crank webs *20x8 3/4"* Dia. of thrust shaft undercollars *13 3/8"* Dia. of screw *17-6"* Pitch of screw *17-4 1/2"* No. of blades *4* State whether moveable *no* Total surface *95 sq ft*No. of Feed pumps *Two* Diameter of ditto *3 1/2"* Stroke *30"* Can one be overhauled while the other is at work *Yes*No. of Bilge pumps *Two* Diameter of ditto *4"* Stroke *30"* Can one be overhauled while the other is at work *Yes*No. of Donkey Engines *Two* Sizes of Pumps *12x10 D.A. + 4 1/2x8 Duplex* No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room *Four - 3 1/2"* In Holds, &c. *No. 1 hold two - 3 1/2"; No. 2 hold two - 3 1/2";**No. 3 hold two - 3 1/2"; No. 4 hold two - 3 1/2"; tunnel well one - 2 1/2".*No. of bilge injections *one* sizes *6"* Connected to condenser, or to circulating pump *Cir. p.* Is a separate donkey suction fitted in Engine room & size *Yes - 3 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 *none*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 *none* How are they protected *✓*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*When were stern tube, propeller, screw shaft, and all connections examined in dry dock *Before launching* Is the screw shaft tunnel watertight *Yes*Is it fitted with a watertight door *Yes* worked from *Upper deck*BOILERS, &c.—No. of Certificate *(Letter for record)* Total Heating Surface of Boilers *5588 sq ft* Is forced draft fitted *no*

No. and Description of Boilers

Working Pressure *180 lbs.* Tested by hydraulic pressure toDate of test *Can each boiler be worked separately Yes* Area of fire grate in each boiler *74.75 sq ft* No. and Description of safety valves toeach boiler *Two, spring-loaded* Area of each valve *8.29 sq in.* Pressure to which they are adjusted *184 lbs.* Are they fitted with easing gear *Yes*Smallest distance between boilers or uptakes and bunkers or woodwork *12"* Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are they 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

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

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 Diameter 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

Diameter 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 *See* 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 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

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

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

DONKEY BOILER— No. One Description Multitubular

Made at Glasgow By whom made Barday, Curle & Co.

Date of test

Where fixed On deck

Working pressure 80 lbs. tested by hydraulic pressure to

No. of Certificate

Fire grate area 29.2 sq

Description of safety valves Spring-loaded

No. of safety valves Two Area of each 5.94 sq

Pressure to which they are adjusted 80 lbs.

If fitted with easing gear Yes

If steam from main boilers can

enter the donkey boiler No.

Dia. of donkey boiler 10'-0"

Length 9'-0"

Material of shell plates

Thickness

Range of tensile

strength Descrip. of riveting long. seams

Dia. of stay holes

Whether punched or drilled

Pitch of rivets

Lap of plating

Per centage of strength of joint

Rivets

Thickness of shell crown plates

Radius of do.

No. of Stays to do.

Dia. of stays.

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Description of

joint Thickness of furnace crown plates

Stayed by

Working pressure of shell by rules

Working pressure of furnace by rules

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

SPARE GEAR. State the articles supplied:— One cast iron propeller. 2 top end, 2 bott. end, 2 main bearing, 12 shaft coupling, 6 holding down, 6 junk ring, 6 cyl. cover + 6 valve chest cover, bolts + nuts. 2 feed + 2 bilge pump, valves. 3 cyl. escape valves + springs. One set of main feed check, one set air p. + one set of air pump, valves. 1 set safety valves springs. 12 B. tubes, 50 condenser tubes + 120 ferrules. 1 feed escape valves + spring. 24 main B. + 12 D.B. gauge glasses and rings. 12 manhole door joints. 12 set main firebr.

The foregoing is a correct description,

John G. McCaid & Co. Manufacturer.

valves + spring. 24 main B. + 12 D.B. gauge glasses and rings. 12 manhole door joints. 12 set main firebr.

Dates of Survey while building { During progress of work in shops - 1905 June 20. Nov 28. 29. 30. Dec 1. 4. 5. 6. 8. 11. 12. 13. 14. 15. 18. 19. 20. 22. 25. 1906 Jan 9. 10. During erection on board vessel - 11. 12. 16. 18. 19. 23. 24. 25. 29. 30. 31. Feb 1. 3. 5. 6. 8. 9. 10. 12. 14. 15. 16. 17. 19. 20. 21. 24. 26. 27. 28. Mar 3. 5. 8. 9. Total No. of visits April 30. 56. Is the approved plan of main boiler forwarded herewith Not received

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

The engines and Boilers have been built under special survey. They have been efficiently fitted on board and on trial, under full pressure, worked satisfactorily. The main steam pipes were tested to 360 lbs. hyd. pressure and found tight. The engines and Boilers are now in safe working condition and eligible, in my opinion, for notation + L.M.C. 4.06. in the Register Book.

Marks on Main B.

Nº 7896
360 lbs.
19/2/06. A. McK.

Marks on D.B.

Nº 7062
160 lbs.
17/8/05 J.L.J.

It is submitted that this vessel is eligible for THE RECORD L.M.C. 4.06.

15.5.06
15.5.06

The amount of Entry Fee... £ 3 : : : When applied for, 3/5/1906 Smk
Special .. £ 25 : 3 : :
Donkey Boiler Fee .. £ 12 : 11 : :
Traveling Expenses (if any) £ 40 : 15 : : When received, 5/5/06.

R. Elliott.
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute Glasgow - 8 MAY 1906

Assigned + L.M.C. 4.06.

MACHINERY CERTIFICATE WRITTEN. 9.506



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