

JAN 23 1906

Port of Glasgow

Received at London Office \_\_\_\_\_ 19

No. in Survey held at GlasgowDate, first Survey 27<sup>th</sup> Sept 04 Last Survey 10<sup>th</sup> Jan 1906

Reg. Book.

(Number of Visits 49)

69 Sep on the

Steel Scr. Stmr. "Admiral"Gross 260Tons Net 50

Master

Built at MaryportBy whom built W. WalkerWhen built 1906Engines made at GlasgowBy whom made James Ritchiewhen made 1906Boilers made at GlasgowBy whom made James Neilson & Son Ltd.(No 2760) when made 1906

Registered Horse Power

Owners Manchester, L'port & N. Wales S. S. Co. Ltd. Port belonging to LiverpoolNom. Horse Power as per Section 28 54Is Refrigerating Machinery fitted for cargo purposes NoIs Electric Light fitted No

## ENGINES, &amp;c.—Description of Engines

CompoundNo. of Cylinders Two No. of Cranks TwoDia. of Cylinders 15" x 32" Length of Stroke 22" Revs. per minute 125 Dia. of Screw shaft as per rule 6.8 Material of screw shaft IronIs 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 ✓ If twoliners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 2" 8"Dia. of Tunnel shaft as per rule 6.23 Dia. of Crank shaft journals as per rule 6.54 Dia. of Crank pin 7" Size of Crank webs 5" x 10 1/2" Dia. of thrust shaft undercollars 7" Dia. of screw 8" 0 Pitch of screw 10" 6" No. of blades 4 State whether moveable No Total surface 30"No. of Feed pumps Two Diameter of ditto 3" Stroke 11" Can one be overhauled while the other is at work YesNo. of Bilge pumps Two Diameter of ditto 3" Stroke 11" Can one be overhauled while the other is at work YesNo. of Donkey Engines Two Sizes of Pumps Gen. 0K4. 6 x 5 3/4 x 6 W. H. H. Super No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room One 2" 1" In Holds, &c. One 2" 1" aft peak 2"No. of bilge injections 1 sizes 2 1/2" Connected to condenser, or to circulating pump As p. Is a separate donkey suction fitted in Engine room & size Yes 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 NoneAre all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Larger valves, smaller, cocksAre 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 AboveAre 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 YesWhat pipes are carried through the bunkers Inward bilge suction How are they protected Strong casingAre all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges YesWhen were stern tube, propeller, screw shaft, and all connections examined in dry dock New msl Is the screw shaft tunnel watertight Mach. aptIs it fitted with a watertight door ✓ worked from ✓BOILERS, &c.—No. of Certificate 7333 (Letter for record Y) Total Heating Surface of Boilers 992 Is forced draft fitted NoNo. and Description of Boilers One single-ended Working Pressure 130 lbs Tested by hydraulic pressure to 260 lbsDate of test 23.1.05 Can each boiler be worked separately ✓ Area of fire grate in each boiler 34 No. and Description of safety valves toeach boiler Two Direct Spring Area of each valve 9.62 Pressure to which they are adjusted 135 lbs Are they fitted with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork Several feet Mean dia. of boilers 11" 0" Length 10' 0" Material of shell plates SteelThickness 23/32 Range of tensile strength 27.5 32 Are they welded or flanged No Descrip. of riveting: cir. seams D. Riv. Lap long. seams D. Riv. StrapsDiameter of rivet holes in long. seams 13/16 Pitch of rivets 5 9/16 Lap of plates or width of butt straps 12 1/8"Per centages of strength of longitudinal joint 83.43 Working pressure of shell by rules 130 lbs Size of manhole in shell 16" x 12"Size of compensating ring M. H. H. No. and Description of Furnaces in each boiler Two, plain Material Steel Outside diameter 3' 4"Length of plain part top 6' 6" Thickness of plates crown 2 1/4" Description of longitudinal joint Welded No. of strengthening rings NoneWorking pressure of furnace by the rules 135 lbs Combustion chamber plates: Material Steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 3/4"Pitch of stays to ditto: Sides 7 3/4 x 7 1/2 Back 7 3/4 x 7 1/2 Top 7 3/4 x 7 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 132 lbsMaterial of stays Iron Diameter at smallest part 1' 50 Area supported by each stay 58 Working pressure by rules 155 End plates in steam space:Material Steel Thickness 13/16 Pitch of stays 15 3/4 x 15 How are stays secured Draw nuts Working pressure by rules 132 lbs Material of stays SteelDiameter at smallest part 3 7/8 Area supported by each stay 236.5 Working pressure by rules 139 Material of Front plates at bottom SteelThickness 23/32 Material of Lower back plate Steel Thickness 5/8 Greatest pitch of stays 10" Working pressure of plate by rules 135 lbsDiameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 23/32 Back 23/32 Mean pitch of stays 11 1/4"Pitch across wide water spaces 14" Working pressures by rules 133 lbs Girders to Chamber tops: Material Steel Depth andthickness of girder at centre 6 3/4 x 1 1/4" Length as per rule 25 3/8" Distance apart 7 3/4" Number and pitch of Stays in each Two at 7 1/2"Working pressure by rules 160 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler workedseparately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivetholes ✓ 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. \_\_\_\_\_ Description \_\_\_\_\_

Made at \_\_\_\_\_ By whom made \_\_\_\_\_ Date of test \_\_\_\_\_ Where fixed \_\_\_\_\_  
 Working pressure \_\_\_\_\_ tested by hydraulic pressure to \_\_\_\_\_ No. of Certificate \_\_\_\_\_ Fire grate area \_\_\_\_\_ Description of safety valves \_\_\_\_\_  
 No. of safety valves \_\_\_\_\_ Area of each \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ If fitted with easing gear \_\_\_\_\_ If steam from main boilers can enter the donkey boiler \_\_\_\_\_  
 Dia. of donkey boiler \_\_\_\_\_ Length \_\_\_\_\_ Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_ Range of tensile strength \_\_\_\_\_  
 Descrip. of riveting long. seams \_\_\_\_\_ Dia. of rivet 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:— *Two top end connecting rod bolts. Two bottom end connecting rod bolts. Two main bearing bolts. Set coupling bolts to one coupling. Fed + bilge pump valves. Bolts & nuts. Iron etc.*

The foregoing is a correct description,

*J. James Ritchie* Manufacturer. *Glasgow*

Dates of Survey while building { During progress of work in shops - *1907: Sep 27 Oct 5-6-14-21 Nov 1-7-9-14-15-16-24 Dec 8-12-21-23-29 1908: Jan 6-9-12-18-20-27-30 Feb 2-9-13-14*  
 { During erection on board vessel - *23 Mar 7-14-20 Apr 5-20 May 29 Jun 12-20-26 Sep 11-26 Aug 5-14-29 Sep 12 Nov 4 Dec 8*  
 Total No. of visits *49* Is the approved plan of main boiler forwarded herewith *Yes. See report on donkey " " " "* (Rep No 22686)

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

*The machinery of this vessel has been made & fitted under special survey & in accordance with the Rules & the approved drawing of the boiler.*

*It is submitted that The machinery is eligible for the notation + LMC 1.06*

It is submitted that  
this vessel is eligible for  
**THE RECORD L.M.C. 1.06**

*Pub*  
*3-2-06*  
*3-2-06*

The amount of Entry Fee.. £ 1 : - : When applied for, *22 JAN 1908*  
 Special .. .. £ 8 : 2 :  
 Donkey Boiler Fee .. .. £ : :  
 Travelling Expenses (if any) £ : :  
*Glasgow 22 JAN 1908*

Committee's Minute

Assigned

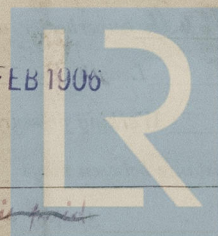
*+ L.M.C. 1.06*

*Arthur L. Jones*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

TUES. 6 FEB 1906

(Subject to classification of hull)

MACHINERY CERTIFICATE  
WRITTEN, 6.2.06



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Foundation