

Port of Greenock

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

No. in Survey held at Greenock Date, first Survey 14<sup>th</sup> Feb/05 Last Survey 18<sup>th</sup> May 1905  
 Reg. Book. 60 Supp on the Steel S.S. "Loke" (Campbelltown S.B. Co. No 76) (Number of Visits 54)  
 Master Jorsburg Built at Campbelltown By whom built Campbelltown S.B. Co. When built 1905  
 Engines made at Greenock By whom made J. B. Kincaid & Co. when made 1905  
 Boilers made at Paisley By whom made A. F. Craig & Co. when made 1905  
 Registered Horse Power \_\_\_\_\_ Owners Wicanders Rederi Actiebolog Port belonging to Stockholm  
 Nom. Horse Power as per Section 28 128 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 18"-27<sup>3</sup>/<sub>4</sub>"-45" Length of Stroke 33" Revs. per minute 78 Dia. of Screw shaft as per rule 9.528 10.3 Material of Iron  
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube no Cedervall Pat Is the after end of the liner made water tight  
 in 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 ✓ If two  
 liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 42"  
 Dia. of Tunnel shaft as per rule 8.6 Dia. of Crank shaft journals as per rule 9.027 Dia. of Crank pin 9<sup>1</sup>/<sub>16</sub>" Size of Crank webs 14"x6" Dia. of thrust shaft under  
 collars 9<sup>1</sup>/<sub>16</sub>" Dia. of screw 12"-4" Pitch of screw 15-0" No. of blades 4 State whether moveable no Total surface 52 sq. ft.  
 No. of Feed pumps 2 ✓ Diameter of ditto 2<sup>1</sup>/<sub>2</sub>" Stroke 18" Can one be overhauled while the other is at work yes  
 No. of Bilge pumps 2 ✓ Diameter of ditto 3<sup>1</sup>/<sub>2</sub>" Stroke 18" Can one be overhauled while the other is at work yes  
 No. of Donkey Engines Two Sizes of Pumps 9"x9" + 4"x6" duplex No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room Five - 2<sup>1</sup>/<sub>2</sub> bore ✓ In Holds, &c. Forehold two-2<sup>1</sup>/<sub>4</sub>, afterhold one-2<sup>1</sup>/<sub>4</sub>  
and tunnel well one-2<sup>1</sup>/<sub>4</sub>  
 No. of bilge injections one sizes 4" Connected to condenser, or to circulating pump Cirp. Is a separate donkey suction fitted in Engine room & size yes-2<sup>1</sup>/<sub>2</sub>"  
 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 —  
 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.—(Letter for record \_\_\_\_\_) Total Heating Surface of Boilers 2100 sq. ft. Is forced draft fitted no  
 No. and Description of Boilers \_\_\_\_\_ Working Pressure 165 lb. Tested by hydraulic pressure to \_\_\_\_\_  
 Date of test \_\_\_\_\_ Can each boiler be worked separately yes Area of fire grate in each boiler 38 sq. ft. No. and Description of safety valves to  
 each boiler Two - direct spring Area of each valve 3.97 sq. in. Pressure to which they are adjusted 168 lb. Are they fitted with easing gear yes  
 Smallest distance between boilers on uptakes and bunkers on woodwork 11" on port side 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 \_\_\_\_\_ 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 \_\_\_\_\_ 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.

Description

Made at

By whom made

When made

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

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tens

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

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

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:— 2 top end, 2 bottom end, 2 main bearing and 1 set coupling, bolts and nuts; 1 set of feed and bilge pump valves, one propeller; 1/2 set fire bars, 12 gauge glass and assorted bolts + nuts and iron.

The foregoing is a correct description,

John G. Kincaid &amp; Co. Manufacturer.

Dates of Survey while building

During progress of work in shops -  
During erection on board vessel -  
Total No. of visits

1905. Feb 14. 15. 16. 17. 18. 20. 21. 22. 23. 24. 25. 27. 28. March 1. 2. 3. 6. 7. 9. 10. 13. 14. 15. 21. 23. 27. 30. April 1. 3. 5. 7. 12. 13. 15. 18. 20. 21. 25. 26. 27. 28 May 1. 3. 4. 5. 8. 9. 10. 11. 12. 16. 17.

Is the approved plan of main boiler forwarded herewith

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

The machinery and boilers have been built under special survey, have been efficiently fitted on board and, when tried under a full head of steam, worked satisfactorily. The main steam pipes were tested to 330 lbs. hyd. press. and proved satisfactory. The Engines and Boilers are now in safe working condition and eligible, in our opinion, to have the notation. +L.M.C. 5.05.

On the vessel being towed from Campbelltown to Greenock, the propeller got adrift and the tips of three blades were damaged. New tips were burnt on and the propeller made efficient. The stern gland, found broken, was renewed.

Marks on main boilers No 7472

Lloyd's Test.

330 lbs.

24/4/05 H.G.S.

It is submitted that  
this vessel is eligible for  
THE RECORD +L.M.C. 5.05 ELEC. LIGHT.

Emd.  
31.5.05

The amount of Entry Fee.. £

2

When applied for,

Special

13

22/5/1905

Donkey Boiler Fee

6

When received,

Travelling Expenses (if any) £

1

26/5/1905

Committee's Minute

Glasgow 29 MAY 1905

Assigned

+ L.M.C. 5.05.

Machinery Certificate  
Written 30.5.05

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Lloyd's Register  
Foundation