

REPORT ON MACHINERY.

Port of Greenock

Received at London Office _____

No. in Survey held at Greenock Date, first Survey 14th Feb/05 Last Survey 18th May 1905

Reg. Book. 60 Supplement the Steel S.S. "Loki" (Campbelltown S.B. Co. No 76) (Number of Visits 54)

Master Jorsburg Built at Campbelltown By whom built Campbelltown S.B. Co. Tons { Gross _____ Net _____ } When built 1905

Engines made at Greenock By whom made J. G. 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" - 45" Length of Stroke 33" Revs. per minute 78 Dia. of Screw shaft as per rule 9.528 10.3 Material of Iron
as fitted 10.375 screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube no. Cedarval, but 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 1/16 Size of Crank webs 14x6" Dia. of thrust shaft under collars 9 1/16 Dia. of screw 12-4 Pitch of screw 15-0" No. of blades 4 State whether moceable no Total surface 52 sq. ft.

No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 18" Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 18" Can one be overhauled while the other is at work yes.

No. of Donkey Engines Two Sizes of Pumps 9x9" + 4x6" duplex No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room Five - 2 1/2 bore ✓ In Holds, &c. Forehold two - 2 1/4, aft hold one - 2 1/4

Is it fitted with a watertight door yes worked from upper deck

No. of bilge injections one size 4" Connected to condenser, or to circulating pump circ. Is a separate donkey suction fitted in Engine room & size yes - 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 —

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 bottom _____ 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 _____

See Glasgow Report No. 2282H.

Lloyd's Register Foundation
W 429-0136

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 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 _____ 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:— *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 flat and assorted bolts + nuts and iron.*

The foregoing is a correct description,
John G. Kincaid & Co. Manufacturer.

Dates of Survey while building

During progress of work in shops	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.
During erection on board vessel	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.
Total No. of visits	54

Is the approved plan of main boiler forwarded herewith _____

_____ " " " donkey " " " _____

General Remarks (State quality of workmanship, opinions as to class, &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. hyp. 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 Campbellton 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

Greenock

Certificate (if required) to be sent to

The amount of Entry Fee. £ 2 : When applied for,
 2/3 Special Glasgow £ 13 : 2 : 8 22/5/1905
 Donkey Boiler Fee £ 6 : 11 : 4
 Travelling Expenses (if any) £ 1 : 2 : 26/5/1905

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

Committee's Minute *Glasgow 29 MAY 1905*

Assigned *+ L.M.C. 5.05.*

MACHINERY CERTIFICATE
 WRITTEN 30.5.05



© 2020
 Lloyd's Register
 Foundation