

# Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office

TUES. 1 FEB 1898

Date of writing Report 28 Jan 1898 When handed in at Local Office 18 Port of London

No. in Reg. Book. 22 Survey held at London Date, First Survey 30 Dec Last Survey 27 Jan 1898

22 on the Machinery of the Wood, Iron or Steel S.S. "Nairnshire" Master C. Olsen

Tonnage { Gross 3819 Net 2438 Vessel built at Newcastle By whom Mathon Leslie & Co. Ltd When 1889 Boilers, when made (Main) 1889 (Donkey) 1889

Registered Horse Power 407 Engines made at Newcastle When 1889 Boilers, when made (Main) 1889 (Donkey) 1889

No. of Main Boilers 3 Owners Alberic S.S. Co. (Lim) Port Glasgow Voyage New Zealand

No. of Donkey Boilers 1 Owners Turnbull Martin & Co. Mngs Port Glasgow Voyage New Zealand

Steam Pressure in Main Boilers 160 lbs Surveyed Afloat & in Dry Dock Victoria & James Lim Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

in Donkey Boilers 90 lbs (State name of Dock.)

Last Survey No. \_\_\_\_\_ Port \_\_\_\_\_

Particulars of Examination and Repairs (if any) Special Survey +100 A1 - 7.97

(Periodical Surveys, when held, must be reported in detail and seriatim in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.)

CHARACTER. for Special Survey. Date of last Survey and of Periodical Surveys.	Years Assigned how many expired.	Machinery and Boiler Surveys (including date of N.B., if any).
<u>+100 A1 - 7.97</u>		<u>+ L.M.C. 10.93</u>
<u>S.S. Lon No 1 - 94</u>		<u>B.S. 1.97</u>

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? Yes

Do. " Donkey " " " Yes

If this was not done, state for what reasons? \_\_\_\_\_

And what parts of the Boilers could not be thus thoroughly examined? \_\_\_\_\_

Also what special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler? \_\_\_\_\_

Did the Surveyor examine the Safety Valves of the Main Boiler? Yes At what pressure were they afterwards adjusted under steam? How 160 lbs

Did the Surveyor examine the Safety Valves of Donkey Boiler? Yes To what pressure were they afterwards adjusted? How 91 lbs

Has the propeller shaft been drawn and examined at this time? No If spare propeller shaft fitted, state whether new? ✓

State the distance between lignum vitae of stern bush and top of after bearing of screw shaft? 5/32"

If the Survey is not complete state what arrangements have been made for its completion and what remains to be done? Complete

The propeller shaft of this vessel was renewed in January 1897 and placed in dry dock. Propeller, Stern Bush, & all sea connections & fastenings found satisfactory.

Examined all cylinders, pistons, boxes, valves & faces, condenser, crank, Lunnel, & Thrust shafting, Air, circulating, Feed & Bilge Pumps - New Black rings fitted in HP piston valve & new springs in HP Piston

Examined all (3) Main Boilers externally & internally & found them in fair condition with exception of screw stays to all Combustion Chamber Sides, several of which were broken - as follows:

Port Boiler - port side, two top rows, starb<sup>d</sup> side, one top row; - Centre Boiler - port side - two after, top row, starb<sup>d</sup> side, two top rows; - Starb<sup>d</sup> Boiler, port side, two top rows, starb<sup>d</sup> side, one top row; - in starb<sup>d</sup> boiler 3 screw stays and in Port boiler 4 screw stays were also renewed for corrosion. The entire row of stays below the broken stays was removed in each case and all defective (67) were renewed. The plain tubes <sup>P.T.O.</sup>

General Observations, Opinion, and Recommendation: The machinery of this vessel, so far as seen, is now in a safe working condition, and eligible, in my opinion, to have + L.M.C. 1.98 Recorded in the Register of the Society.

(State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.: thus, for example, B.S. 9.95, B.&M.S. 9.95 or L.M.C. 9.95, 140 lb., F.D., &c.)

Office or Registration Fee (per Sec. 27) £ 5 10 0

Survey Fee (per Section 28) £ 4 19 0

Special Damage Fee (per Section 28) £

Travelling Expenses (if chargeable) £

Fees applied for 1/2 18 98

Received by me, 4/2 18 98

\* State if Certificate is required \_\_\_\_\_

Committee's Minute FRI, 4 FEB 1898

Assigned + L.M.C. 1.98

Thomas R Blackie  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

TUES. 2 AUG 1898



LON714-0370

Has a Survey also been held on Ship? If so, is the Report sent now, or when will it be sent?

Insert Character of Ship and Machinery precisely as in the Register Book.

\*Certificate to be sent to

59562. Lon.

Boat <sup>d</sup>

s/s Gainshire

in the port box, aft end, of starb<sup>d</sup> boiler have all been renewed. The port side of port-aft furnace in starb<sup>d</sup> boiler was found to be corroded & thin ( $\frac{1}{4}$ " at back end, it has been cut & an efficient patch fitted.

All safety valves & mountings exam<sup>d</sup> & found satisfactory. Examined Donkey Boiler externally & internally and found it in fair condition with exception of both combustion chamber backs, at bottom, which were corroded & thin, these have been cut and efficient plates fitted and all screw stays to same renewed.

Examined safety valves & found them satisfactory. a new hood has been fitted to forward valve.

Donkey Boiler examined under hydraulic test to 200 lbs & found tight

The starb<sup>d</sup> Main Boiler examined under hydraulic test to 320 lbs & found tight.

Main & Donkey Boilers examined under steam and safety valves adjusted to working pressures.

J. Blackie

By Surveyor

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

67 forward stays renewed in Main Boilers  
Port furnace of starboard Boiler patched & the  
plate in port-aft furnace of same boiler  
renewed. Donkey Boiler combustion  
chamber patched

It is submitted that  
this vessel is eligible for  
THE RECORD. + 1. 11. 6. 1. 98

1/2/98

