

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

No. **10889** Date of Writing Report **16th Aug^r 91** 18 **91** Port of **Glasgow**
 No. in Reg. Book **674** Survey held at **Glasgow** Date, first Survey **30th July** Last Survey **13th Aug^r 1891**
 on the Machinery of the **S.S. Clan Mackenzie** Master **Miller** No. of Visits **6**
 Tonnage { Gross **2964** Net **1930** Vessel built at **Leith** By whom **Ramage & Ferguson** When **1882-4**
 Registered Horse Power **400** Engines made at **Glasgow** When **1882** Boilers, when made (Main) **1882** (Donkey) **1882**
 No. of Main Boilers **Two** Owners **Cayper & Co. Ltd.** Port **Glasgow** Voyage **Indian**
 Steam Pressure in Main Boilers **85 lbs** If Surveyed Afloat or in Dry Dock **Both**
 in Donkey Boiler **65 lbs** (State name of Dock.) **Govan** Class of Vessel & Machinery **100A1**
 Last Survey No. **11** Port **Glasgow** (As in Register Book, including dates of Special Surveys of Ship and of last Boiler Survey.) **L.M.C. 8-90**
S.S. G.L. 7-1-86

Particulars of Examination and Repairs (if any) **Annual Boiler.**
 (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 should be separated from Repairs due to other causes. State also the dates and initials of any letters respecting this case

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? **85 lbs**
 Did the Surveyor examine the Safety Valves of Donkey Boiler? **Yes**
 To what pressure were they afterwards adjusted? **65 lbs**

When this vessel was in dry dock, the **se-cocks** were taken adrift, examined, and repaired where necessary. The **propeller** and **fastenings** were examined externally, and are in good order. The **cylinders**, **pistons**, **slide valves** and **pumps**, also **crank** and **tunnel shafting** were examined, and found in good order. The **forward crank pin** is flawed at after fillet, the flaw extending in a circular direction for a distance of **12 3/4"**. It appears to be a flaw of old standing and does not seem to extend to any great depth; it was not considered necessary to make any recommendation regarding it. The **main boilers** and **mountings** were examined throughout, they are in good order in every respect; **steam** has been raised and the **safety valves** adjusted to the working pressure. The **donkey boiler** and **mountings** were also examined; it is in good condition generally. **Four** new stays have been fitted to furnace crown, in place of **four** that were reduced in section. **Steam** has been raised, and the **safety valves** adjusted to the working pressure.
 General Observations, Opinion, and Recommendation:— This vessel's machinery appears to be in good order, and in my opinion, is eligible to remain as classed, with notification **L.M.C. 8-91**
 (State clearly what alteration, if any, is suggested to be made in the existing classification and notification of the vessel's machinery in the Register Book, consequent upon this survey; thus, for example, B.S. 189, B.&M.S. 189, or L.M.C. 189, as the case may be.)

Office or Registration Fee (per Sec. 27) £ : :
 Survey Fee (per Section 28) £ **2** : :
 Special Damage Fee (per Section 29) £ : :
 Travelling Expenses (if chargeable) £ : :
 Fees applied for **18/8/91**
 Received by me, **19/8/91**
R. J. Beveridge
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
 Glasgow
 Committee's Minute **FRI 21 AUG 1891**
 Assigned **+ L.M.C. 8, 91**
FRI 11 DEC 1891
FRI 22 APL 1892
TUES. 26 APL 1892

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It is submitted that this is eligible for the second prize of £200

Wm. Lloyd Garrison

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THE SURVEYORS

CP 055