

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

No. *52* Date of Writing Report *May 1st 1889* Port of *London* (Received at London Office, *WED 1 MAY 1889*)
 No. in Reg. Book. *52* Survey held at *London* Date, first Survey *April 12* Last Survey *April 20 1889*
 on the Machinery of the *S.S. James Gray* Master *Harrison* No. of Visits *4*
 Tonnage { Gross *428* Net *459* Vessel built at *Newcastle* By whom *Palmer* When *1863*
 Registered Horse Power *99* Engines made at *Newcastle* When *1885* Boilers, when made (Main) *1885* (Donkey) *1885*
 No. of Main Boilers *1* Owners *J. Penruick & Sons* Port *London* Voyage *Coast*
 Steam Pressure in Main Boilers *150* If Surveyed Afloat or in Dry Dock *Dry Dock* (State name of Dock.)
 in Donkey Boiler *none* Class of Vessel & Machinery (As in Register Book, including date of last Boiler Survey.) *A.1.4.89 + L.M.C. 6.85*

Last Survey No. *52* Port *London*

Particulars of Examination and Repairs (if any) *Special Survey*

(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 Boiler separately (including the Donkey Boiler, if any), and make a thorough examination at this time? *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?

Examined main boiler & valves internally & externally in good condition

Examined cylinder pistons slides & valves, and all pumps, & thrust & tunnel shafting.

Crank shaft trued up in lathe and a new centre crank pin fitted & secured at each end with four bolts

Sea cocks & connections in good order

Examined crankshaft which has been properly bedded down, examined also sundry sea cocks & found them in order

Set main safety valves to 150 lbs per sq inch

General Observations, Opinion, and Recommendation:— *The machinery & boilers of this vessel being now in good condition she is eligible in our opinion to be classed + L.M.C. 5.89 in the Register-Book*

Office or Registration Fee (per Sec. 27).....	£ : :	Fees applied for
Survey Fee (per Section 28)	£ 3 : 3	188
Special Damage Fee (per Section 28)	£ : :	
*Certificate (if required) as per margin	£ : :	received by me,
Travelling Expenses (if chargeable).....	£ : :	45 188

Thos. L. Gray & Francis Peterson
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned

TUE 7 MAY 1889

+ L.M.C. 5.89



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It is submitted that the
vessel is eligible to
have + L.M. C-589
recorded
N.A.
7-5-89



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